Welcome to the DotRas SDK Documentation. This is intended to be a reference that you can use to assist with development using the DotRas project. This project is continuously evolving, so expect things to change in each version of the project. As with all software products, there may be bugs found in the application. There are processes in place to the release process to minimize this exposure and reduce that risk. If however, you do find something you feel is a bug or have a feature request please visit the project found here.
What is DotRas?

DotRas is an open-source project aimed at developers using the .NET framework who need to interact with the Remote Access Service (RAS) APIs exposed within Microsoft Windows. Currently the project supports the .NET 2.0.50727 framework and later for maximum compatibility. The product contains multiple version of the binary which each containing different features for the supported versions of Microsoft Windows.

For more information about the features supported, visit the Choosing Your Build topic.
See Also

Other Resources

Getting Started

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The assemblies included with this package allow for manipulation of the Microsoft Windows Remote Access Service (RAS) system. All of the components exposed by this assembly are designed to integrate directly with Microsoft Visual Studio. You can use them from other editors, however the rich editing capabilities of Visual Studio will not be available. These components can be added to the toolbox and dragged onto your Windows Forms application, or dropped into your Windows Service with nothing more than a couple clicks of the mouse.
Which components do what?

One of the questions you might be asking yourself is, "well this is great, but what in this thing do I use for what?". Hopefully this question can be addressed here. Due to the number of objects in the project it may seem daunting trying to find which component you need to use when. The following components are available in all build types.

- **RasAutoDialManager** - This component interacts with the Windows RAS AutoDial manager.

- **RasConnectionWatcher** - This component monitors the connections active on the machine, and is a unique feature of this project. You will not find this component available anywhere else!

- **RasDialDialog** - This component displays a user interface to dial a connection.

- **RasDialer** - This component is designed to dial any type of connection that Windows can dial itself. However, custom VPN connections like the Cisco VPN system do not use Windows to dial the connection and therefore cannot be dialed from this project.

- **RasEntryDialog** - This component displays a user interface to create or modify a phone book entry.

- **RasPhoneBook** - This component is designed to manipulate the Windows phone books. Adding, removing, and modifying entries is done through this class. You can also modify credentials stored with the entry.

- **RasPhoneBookDialog** - This component displays the primary dial-up networking dialog box.

The following components are available for WINXP and later build types.

- **CredentialPromptDialog** - This component provides a common user interface for requesting user credentials.
**Known Limitations**

- **Windows Presentation Foundation (WPF)**
  There are difficulties when using DotRas with WPF surrounding the marshalling of threads from the multi-threaded components. The ISynchronizeInvoke interface is not used in WPF, instead the Dispatcher type is used for marshalling threads. For help with using the components with WPF, see the DialingVpnEntry WPF example.
The DotRas project contains different assemblies for different versions of Windows. Deciding which assembly your project should use is one of the biggest decisions you will make when utilizing the API. Each assembly contains different features, because different versions of Windows expose different features. Whichever assembly you select, that will be the earliest version of Windows your application can support.
Introduction

Attempting to use the assembly compiled for Windows XP on Windows 2000 would cause many of the methods to throw exceptions with an error code of 632. Error code 632 indicates a structure size problem. Windows decides how to interact with the structure based on the size of the structure passed into it. If you decide to use the Windows XP (WINXP) version, that assembly will support everything except for Windows 2000. The same thing applies to Windows 2008 (WIN2K8) only supporting Windows Vista or later. If your application needs to support IPv6, you will need to use the WIN2K8 build, and your application will only work on Windows Vista or later. No versions of Windows prior to Windows Vista has this capability.

Do not take this decision lightly, your application’s platform interoperability rests solely on this decision.

Tip

If you are unsure which assembly will suit your needs, use the Windows 2000 version of the assembly. It is cross-platform compatible with all supported operating systems.
Benefits and Features

The list below describes the different versions available and the features each version adds.

- **WIN8 - Windows 8 and Windows 8 Server**
  - Includes all features listed in the WIN7 build.
  - Entry options
    - Indicating whether a pre-shared is used by the initiator or responder for IPSec authentication.
    - Natively allowing caching of credentials at the end of a successful authentication attempt.

- **WIN7 - Windows 7 and Windows 2008 Server R2 (aka Windows 7 Server)**
  - Includes all features listed in the WIN2K8 build.
  - Updating Internet Key Exchange (IKEv2) connection tunnel endpoints.
  - Retrieval of PPP and Internet Key Exchange (IKEv2) projection information for an active connection.
  - Connection substates for Internet Key Exchange (IKEv2) virtual private network connections.
  - Modifying the interface metrics, allowing skipping PPP authentication, and setting an authentication cookie while dialing.
  - Entry options
    - Disabling class based static routes.
    - Enabling/disabling mobility of an IKEv2 virtual private network connection.
    - Modifying the IPv6 address, prefix length, and network outage timeout.
○ Added support for IKEv2 VPN strategies.

- **WIN2K8 - Windows Vista and Windows 2008 Server**
  ○ Includes all features listed in the WINXP build.
  ○ Retrieval of the correlation id, network access protection (NAP) status, and IPv6 projection information for an active connection.
  ○ Modifying IPv6 DNS addresses, IPv4 and IPv6 interface metrics for a phonebook entry.
  ○ Added support for the IPv6 network protocol.
  ○ Removes support for SLIP projection information.
  ○ Entry options
    ▪ Enables securing of routing compartments.
    ▪ Allows indication whether default settings should be used during entry creation.
    ▪ Enabling IPv6 remote default gateway.
    ▪ Registration of IP address with DNS.
    ▪ Using DNS suffix for registration.
    ▪ Disabling the IKE name EKU check.
  ○ Added support for SSTP VPN strategies.

- **WINXP - Windows XP and Windows 2003 Server**
  ○ Includes all features listed in the WIN2K build.
  ○ Retrieval of connection options and session id for active connections.
  ○ Adds support for custom scripting on the RasDialer component.
  ○ Added support for PPPoE devices.
  ○ Added DNS suffix, TCP window size, prerequisite entries, redial count, redial pause, clearing and retrieval of preshared key
credentials, and updating credentials for all users to RasEntry.

- Entry options
  - Support for securing file and print servers.
  - Securing the client for MS networks.
  - Disallow negotiation of multi-link.
  - Disallow use of RAS credentials to access network resources.
  - Use preshared keys for IPSec authentication.
  - Indicating whether the connection connects to the Internet.
  - Disabling NBT probing over IP.
  - Enabling the use of global device settings.
  - Enabling auto-reconnect if the connection is dropped.
  - Indicating whether the same set of phone numbers will be used for all subentries in a multi-link connection.

- **WIN2K - Windows 2000 and Windows 2000 Server**
  - Base version of the assembly.

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The topics in this section describe the various changes made to the DotRas project over the life of the project.
Version History

Select a version below to see a description of its changes.

- Version 1.0.0.0
- Version 1.1.0.0
- Version 1.2.0.0
- Version 1.3.0.0

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Version 1.0.0.0 was released April 15th, 2009.
Changes in this release

Initial release.

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Version 1.1.0.0 was released September 1st, 2009.
Changes in this release

- **Features**
  - Added support for generating LUID structures.
  - Support for the RasGetCountryInfo API has been added.
  - RasDevice.GetDeviceByName no longer requires callers to disable exact matching, it is turned off by default.
  - RasDevice.Create has been publicly exposed so devices can be created manually.
  - RasEntryNameValidator has been added to assist with verifying entry names for a phonebook.
  - RasAutoDialManager has been completely redesigned to make the component easier to work with.
  - Stored credentials used by RasDialer are now forcibly destroyed rather than waiting for the garbage collector.
  - Marked all objects that can be serialized with the Serializable attribute to allow for serialization.
  - Added the connection handle to the UserState property when dialing connections with RasDialer.
  - RasEntry and RasSubEntry now both implement the ICloneable interface.

- **Bug Fixes**
  - Fixed a bug with the RasPhoneBook component not loading the Options property on RasEntry.
  - Fixed a bug with the RasDialer component DialAsync method causing timeouts when it shouldn't.
  - Fixed an issue with the RasDialer component not being reusable when dialing synchronously.
○ Fixed an issue with RasConnection.HangUp allowing the application to exit before the operation has completed.

• **Breaking Changes**

○ The RasDialer component must have the PhoneBookPath property set to prevent a non-descriptive error when attempting to use stored credentials.

○ Renamed the PhoneBookPath property name on RasConnection to comply with project naming guidelines.

• **Other Changes**

○ Added new example projects.

○ Created setup project for deployment rather than continuing to use multiple zip files.

○ Made many updates to the code documentation for the project.

○ Any entry points missing from rasapi32.dll will now throw NotSupportedExceptions, this is to prevent non-descriptive exceptions being thrown if a build from another platform is used on an earlier platform.
See Also

Other Resources

Release Link

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Version 1.2.0.0 was released June 1st, 2011.
Changes in this release

- Features
  - Windows 7 features (WIN7 build type) have been added; this operating system is now officially supported.
    - Added InterfaceIndex property to RasDialer for VPN connections.
    - Added IPv6Address, IPv6PrefixLength, and NetworkOutageTime properties to RasEntry.
    - Added LocalEndPoint, RemoteEndPoint, and ConnectionSubState properties to RasConnectionStatus.
    - Added support for IKEv2 and PPP projection operations; see the GetProjectionInfo method on RasConnection.
    - Added support for updating tunnel endpoints on IKEv2 connections; see the new UpdateConnection method.
  - Added new static helper methods on RasConnection to assist in retrieving active connections.
  - RasDialer can now update credentials after a successful connection attempt for both synchronous and asynchronous attempts.
  - Added the AllowUseStoredCredentials property to RasDialer which enables or disables the retrieval of stored credentials when dialing a connection if no credentials are provided to the dialer. This value is false by default.
  - RasEntry.CreateVpnEntry now allows callers to disable the remote default gateway rather than having to remove the flag after the method has completed.
  - Added a new static method to RasEntry to assist with creating broadband connections.
  - Added support for saving credentials from RasEntry to the all users profile when available.
Exposed the polling interval used by the HangUp method on RasConnection and RasDialer to allow callers to specify their own interval if needed.

Added the IsBusy property to RasDialer to indicate when the component is in use.

Added support for using the equality/inequality operators on the RasHandle class when comparing handles.

Added RasConnection.GetActiveConnectionByHandle method to allow retrieving a connection by the handle.

Added the CredentialPromptDialog for requesting user credentials using the default Windows credential interface.

Added the Handle property to the DialCompletedEventArgs class. This property will contain the handle whose connection just completed.

Added support for retrieving and updating EAP user data on RasEntry.

Exposed the Text, Data, and CallbackId properties in RasPhoneBookDialog events.

- **Breaking Changes**

  - Relocated the GetActiveConnections method from RasDialer to a static method on RasConnection. This was done to remove the need for a RasDialer instance when the class was not used by the method.

  - The overloads containing NetworkCredential for the Dial and DialAsync methods on RasDialer have been relocated to the Credentials property on the component. This was done to add support for updating credentials stored for the entry once a connection was successful.

  - The RasDialer component no longer assumes stored credentials should be used if the **Credentials** property is null. To allow stored credentials to be used, set the **AllowUseStoredCredentials** property to true.
The following flags are no longer exposed as they are set based on the data from the parent RasEntry object.

- **SpecificIPAddress** - Is now set by setting the IPAddress property on RasEntry.
- **SpecificNameServers** - Is now set by setting the DnsAddress or DnsAddressAlt properties on RasEntry.
- **UseCountryAndAreaCodes** - Is now set by setting either CountryId, CountryCode, or AreaCode properties on RasEntry.
- **IPv6SpecificAddress** - Is now set by setting the IPv6Address property on RasEntry for WIN7 and later build types.
- **IPv6SpecificNameServers** - Is now set by setting the IPv6DnsAddress or IPv6DnsAddressAlt properties on RasEntry.
- **IPv4ExplicitMetric** - Is now set by setting the IPv4InterfaceMetric property on RasEntry for WIN2K8 or later build types.
- **IPv6ExplicitMetric** - Is now set by setting the IPv6InterfaceMetric property on RasEntry for WIN2K8 or later build types.

- Renamed IsMultiLink properties to IsMultilink to comply with .NET naming guidelines on RasHandle and RasPppInfo objects.
- The following flags have been made internal and instead have exposed a class with the same name as each enum containing multiple booleans.
  - **RasNetworkProtocols**
  - **RasIkeV2Options**
  - **RasCompressionOptions**
  - **RasLcpOptions**
- **RasEntryOptions** and **RasEntryExtendedOptions**
  - Both flags have been consolidated to the **RasEntryOptions** class to help assist with development.

- **RasIPOptions**
  - The RasDialExtendedOptions flags enum has now been made internal and the RasDialOptions class is now exposed. Also, the following flags are no longer exposed as they are set based on other settings on the RasDialer.

  - **IgnoreModemSpeaker** - Is now set by setting the `SetModemSpeaker` property on RasDialOptions.
  - **IgnoreSoftwareCompression** - Is now set by setting the `SetSoftwareCompression` property on RasDialOptions.

- The RasIPv6Info class has had the `LocalInterfaceIdentifier`, `PeerInterfaceIdentifier`, `LocalCompressionProtocol`, and `PeerCompressionProtocol` properties array return values converted to their respective numeric types.

- The connection handle that was being passed into the `UserState` property on `DialCompletedEventArgs` is now being passed into the `Handle` property.

- The **RasEapInfo** class has been removed and the entire EAP infrastructure has been completely redesigned.

- The **RasDialer.EapData** property has been removed. To set the EAP data used during dialing, use the `SetEapUserData` method.

**Bug Fixes**

- Fixed a bug with RasPhoneBook that caused it to crash if the target directory did not already exist when opening a phonebook. The phone book will now always create the file when being opened to prevent this from happening.

- Fixed a bug with RasConnection when hanging up entries that experience a long delay when disconnecting not leaving the
hangup method after 3 seconds. This will prevent the application possibly ending and causing the connection to be left in an inconsistent state.

- Fixed a bug with RasDialer causing an unhandled exception being thrown from the timeout callback if an error occurs during the timeout.
- Fixed a couple bugs with RasPhoneBook not handling alternate entries on dial-up connections properly. It can now retrieve multiples and save them correctly.
- Fixed an unhandled exception being thrown from RasDialer when attempting to hang up an already disconnected connection being reported from the RAS state callback.
- Fixed an issue when adding or updating a broadband connection.
- Fixed an issue when using RasDialer with Debian Linux VPN servers when providing invalid user credentials.
- Fixed an issue when retrieving connection statistics causing overflow problems.
- Fixed a bug with RasDialer leaving connections open when disconnected before the connection is considered active.
- Fixed a bug with RasDialer not being able to dial L2TP connections when using EAP and certificates for authentication.

**Other Changes**

- Removed the WINXPSP2 build type, use the WINXP build type instead.
  The Windows XP SP2 build was checked whether it was truely needed. After verification against the Windows SDK, it was found this build type was not necessary. There were no changes to RAS between Windows XP (0x501) and Windows XP Service Pack 2 (0x502).
- Added additional example projects.
- Changed the exception thrown from RasDialer when dialing
connections by entry name with a null phonebook path from ArgumentException to an InvalidOperationException.

○ Gave the installation package a much needed face lift.

○ Changed the build system to allow for integration tests with multiple server operating systems for each available build type.

○ Made many changes to the code documentation.

○ Added disconnect button to the CreateAndDialVpnEntry example to show how to disconnect a connection attempt on an already connected entry.

○ Added support for Authenticode certificates in the build process for the installation package and output binaries.
Version 1.3.0.0 was released February 22nd, 2014.
Changes in this release

- **Features**
  - Windows 8 features (WIN8 build flavor) have been added; this operating system is now officially supported.
    - Added UsePreSharedKeyForIkev2Initiator, UsePreSharedKeyForIkev2Responder, and CacheCredentials properties to RasEntryOptions.
  - Added support for the following APIs:
    - **RasGetCustomAuthData** - See RasEntry GetCustomAuthData.
    - **RasSetCustomAuthData** - See RasEntry UpdateCustomAuthData.
  - Added support for disconnecting referenced connections (connections that have been dialed more than once).
  - Added the RasEntry.Exists method to test whether an entry exists within a phonebook without opening the phonebook.

- **Breaking Changes**
  - Marked the following static methods as obsolete for in preparation for future removal. These methods are currently still supported for this release, however they will be removed soon.
    - RasConnection.GetActiveConnectionByHandle(RasHandle)
    - RasConnection.GetActiveConnectionByName(string, string)
    - RasConnection.GetActiveConnectionById(Guid)
    - RasDevice.GetDeviceByName(string, string)
    - RasDevice.GetDeviceByName(string, string, bool)
- RasDevice.GetDevicesByType(string)
- RasPhoneBook.Open()
- RasPhoneBook.Open(bool)

- The RasDevice DeviceType property has been changed from a string to an enum, along with deprecated methods to find devices.

- **Bug Fixes**
  - Fixed a bug that was not allowing the RasPhoneBook class to be reused if an entry with the same name existed in the second phonebook.

- **Other Changes**
  -

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See Also

Other Resources

Visit the PayPal website

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## Namespaces

<table>
<thead>
<tr>
<th>Namespace</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DotRas</td>
<td>The DotRas namespace contains fundamental classes that define commonly-used value and reference data types, events and event handlers, interfaces, attributes, and processing exceptions.</td>
</tr>
<tr>
<td>DotRas.Design</td>
<td>The DotRas.Design namespace contains base classes that define commonly-used value and reference data types, events and event handlers, interfaces, and attributes.</td>
</tr>
</tbody>
</table>

*Copyright (c) Jeff Winn. All rights reserved.*
The DotRas namespace contains fundamental classes that define commonly-used value and reference data types, events and event handlers, interfaces, attributes, and processing exceptions.
### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CredentialPromptDialog</td>
<td>Prompts the user for credentials. This class cannot be inherited.</td>
</tr>
<tr>
<td>DialCompletedEventArgs</td>
<td>Provides data for the DialCompleted event.</td>
</tr>
<tr>
<td>InvalidHandleException</td>
<td>The exception that is thrown when an invalid connection handle is used.</td>
</tr>
<tr>
<td>RasAmbInfo</td>
<td>Contains the results of a Authentication Message Block (AMB) projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasAutoDialAddress</td>
<td>Represents a network address in the AutoDial mapping database. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasAutoDialAddressCollection</td>
<td>Represents a strongly-typed collection of RasAutoDialAddress objects. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasAutoDialEntry</td>
<td>Represents an entry associated with a network address in the AutoDial mapping database. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasAutoDialManager</td>
<td>Provides methods to interact with the remote access service (RAS) AutoDial mapping database. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasCcpInfo</td>
<td>Contains the results of a Compression Control Protocol (CCP) projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasCompressionOptions</td>
<td>Represents remote access service (RAS) compression options. This class cannot be inherited.</td>
</tr>
<tr>
<td>Class</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RasConnection</td>
<td>Represents a remote access connection. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasConnectionEventArgs</td>
<td>Provides data for remote access service (RAS) connection events.</td>
</tr>
<tr>
<td>RasConnectionOptions</td>
<td>Represents connection options for a remote access service (RAS) connection. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasConnectionStatus</td>
<td>Represents the current status of a remote access connection. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasConnectionWatcher</td>
<td>Listens to the remote access service (RAS) change notifications and raises events when connections change. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasCountry</td>
<td>Represents country or region specific dialing information. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasDevice</td>
<td>Represents a TAPI device capable of establishing a remote access connection. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasDeviceTypeConverter</td>
<td>Provides a converter for RasDeviceType. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasDialDialog</td>
<td>Prompts the user to dial a phone book entry. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasDialer</td>
<td>Provides an interface to the remote access service (RAS) dialer. This class cannot be inherited.</td>
</tr>
</tbody>
</table>
| RasDialException             | The exception that is thrown when a remote access service
**RasDialOptions**
Represents options for dialing a remote access service (RAS) entry. This class cannot be inherited.

**RasDialOptionsConverter**
Provides methods to convert a RasDialOptions instance from one data type to another. Access this class through the TypeDescriptor object.

**RasEapOptions**
Represents extensible authentication protocol (EAP) options for dialing a remote access service (RAS) entry. This class cannot be inherited.

**RasEapOptionsConverter**
Provides methods to convert a RasEapOptions instance from one data type to another. Access this class through the TypeDescriptor object.

**RasEntry**
Represents a remote access service (RAS) entry. This class cannot be inherited.

**RasEntryCollection**
Represents a strongly-typed collection of RasEntry objects. This class cannot be inherited.

**RasEntryDialog**
Prompts the user to create or modify a phone book entry. This class cannot be inherited.

**RasEntryNameValidator**
Validates the format of an entry name for a phone book. This class cannot be inherited.

**RasEntryOptions**
Represents options for a remote access service (RAS) entry. This class cannot be inherited.
<table>
<thead>
<tr>
<th>Class Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasErrorEventArgs</td>
<td>Provides data for remote access service (RAS) error events.</td>
</tr>
<tr>
<td>RasException</td>
<td>The exception that is thrown when a remote access service (RAS) error occurs.</td>
</tr>
<tr>
<td>RasHandle</td>
<td>Represents a wrapper class for remote access service (RAS) handles. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasIdleDisconnectTimeout</td>
<td>Contains constants used to specify remote access service (RAS) idle disconnect timeouts.</td>
</tr>
<tr>
<td>RasIkeV2Info</td>
<td>Contains the result of an Internet Key Exchange (IKEv2) projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasIkeV2Options</td>
<td>Defines the Internet Key Exchange (IKEv2) options. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasIPInfo</td>
<td>Contains the result of an IP projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasIPOptions</td>
<td>Defines the remote access service (RAS) IPCP options.</td>
</tr>
<tr>
<td>RasIPv6Info</td>
<td>Contains the result of an IPv6 projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasIpXInfo</td>
<td>Contains the result of an IPX projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasLcpInfo</td>
<td>Contains the result of a Link Control Protocol (LCP) multilink projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasLcpOptions</td>
<td>Represents remote access service (RAS) link control protocol.</td>
</tr>
<tr>
<td>Class</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RasLinkStatistics</td>
<td>Represents connection link statistics for a remote access connection. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasNapStatus</td>
<td>Represents the current network access protection (NAP) status of a remote access connection. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasNbfInfo</td>
<td>Contains the result of a NetBEUI Framer (NBF) projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasNetworkProtocols</td>
<td>Represents network protocols for a remote access service (RAS) entry. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasPhoneBook</td>
<td>Represents a remote access service (RAS) phone book. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasPhoneBookDialog</td>
<td>Displays the primary Dial-Up Networking dialog box. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasPhoneBookDialogEventArgs</td>
<td>Provides data for RasPhoneBookDialog events.</td>
</tr>
<tr>
<td>RasPppInfo</td>
<td>Contains the result of a Point-to-Point (PPP) projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasSlipInfo</td>
<td>Contains the result of a Serial Line Internet Protocol (SLIP) projection operation. This class cannot be inherited.</td>
</tr>
<tr>
<td>RasSubEntry</td>
<td>Represents a subentry of a remote access service (RAS) entry. This class cannot be</td>
</tr>
<tr>
<td>Class/Event</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RasSubEntryCollection</td>
<td>Represents a strongly-typed collection of RasSubEntry objects. This class cannot be inherited.</td>
</tr>
<tr>
<td>StateChangedEventArgs</td>
<td>Provides data for the StateChanged event.</td>
</tr>
</tbody>
</table>
### Structures

<table>
<thead>
<tr>
<th>Structure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luid</td>
<td>Represents a locally unique identifier (LUID).</td>
</tr>
</tbody>
</table>
### Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasCompressionType</td>
<td>Defines the remote access service (RAS) compression algorithms.</td>
</tr>
<tr>
<td>RasConnectionState</td>
<td>Defines the different states available for a remote access service (RAS) connection.</td>
</tr>
<tr>
<td>RasConnectionSubState</td>
<td>Defines the states for Internet Key Exchange version 2 (IKEv2) virtual private network (VPN) tunnel connections.</td>
</tr>
<tr>
<td>RasDeviceType</td>
<td>Defines the remote access service (RAS) device types.</td>
</tr>
<tr>
<td>RasDialMode</td>
<td>Defines the dial modes.</td>
</tr>
<tr>
<td>RasDialogStyle</td>
<td>Specifies the dialog styles for a RasEntryDialog component.</td>
</tr>
<tr>
<td>RasEncryptionType</td>
<td>Defines the encryption types.</td>
</tr>
<tr>
<td>RasEntryType</td>
<td>Defines the entry types.</td>
</tr>
<tr>
<td>RasFramingProtocol</td>
<td>Defines the framing protocols.</td>
</tr>
<tr>
<td>RasIkeV2AuthenticationType</td>
<td>Defines the Internet Key Exchange (IKEv2) authentication types.</td>
</tr>
<tr>
<td>RasIPSecEncryptionType</td>
<td>Defines the IPSec encryption types.</td>
</tr>
<tr>
<td>RasIsolationState</td>
<td>Describes the isolation state of a remote access service (RAS) connection.</td>
</tr>
<tr>
<td>RasLcpAuthenticationDataType</td>
<td>Defines the Link Control Protocol (LCP) authentication data types.</td>
</tr>
<tr>
<td>RasLcpAuthenticationType</td>
<td>Defines the Link Control Protocol (LCP) authentication protocol types.</td>
</tr>
<tr>
<td>RasPhoneBookType</td>
<td>Defines the phone book types.</td>
</tr>
<tr>
<td><strong>RasPreSharedKey</strong></td>
<td>Defines the pre-shared keys.</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td><strong>RasProjectionType</strong></td>
<td>Defines the projection types.</td>
</tr>
<tr>
<td><strong>RasUpdateCredential</strong></td>
<td>Defines where user credentials can be saved for a phone book.</td>
</tr>
<tr>
<td><strong>RasVpnStrategy</strong></td>
<td>Defines the VPN strategies.</td>
</tr>
</tbody>
</table>
Prompts the user for credentials. This class cannot be inherited.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public sealed class CredentialPromptDialog : CommonDialog</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public NotInheritable Class CredentialPromptDialog Inherits CommonDialog</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public ref class CredentialPromptDialog sealed : public</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>[&lt;SealedAttribute&gt;] type CredentialPromptDialog = class inherit CommonDialog end</td>
</tr>
</tbody>
</table>
Remarks

The TargetName property should contain the name of the server or machine for which credentials are being requested. This dialog also ties into the Windows credential store to pre-populate the user name if the stored credentials are found.

This class uses the Network Access: Do not allow storage of credentials or .NET passports for network authentication policy setting. If this policy is enabled, the dialog will not be able to persist credentials.

Known Limitations:

- This component is only available on Windows XP and later operating systems.
### Examples

The following example shows how to request credentials from the user.

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>using (CredentialPromptDialog dialog = new CredentialPromptDialog()) {</td>
<td>Dim dialog As CredentialPromptDialog</td>
</tr>
<tr>
<td>dialog.TargetName = &quot;ServerName&quot;;</td>
<td>Try</td>
</tr>
<tr>
<td>if (dialog.ShowDialog() == DialogResult.OK) {</td>
<td>dialog = New CredentialPromptDialog()</td>
</tr>
<tr>
<td>// The UserName and Password properties will</td>
<td>dialog.TargetName = &quot;ServerName&quot;</td>
</tr>
<tr>
<td>}</td>
<td>If dialog.ShowDialog() = DialogResult.OK Then</td>
</tr>
<tr>
<td>}</td>
<td>' The UserName and Password properties will</td>
</tr>
<tr>
<td></td>
<td>End If</td>
</tr>
<tr>
<td></td>
<td>Finally</td>
</tr>
<tr>
<td></td>
<td>If dialog IsNot Nothing Then</td>
</tr>
<tr>
<td></td>
<td>dialog.Dispose()</td>
</tr>
<tr>
<td></td>
<td>End If</td>
</tr>
<tr>
<td></td>
<td>End Try</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
  System.MarshalByRefObject
  System.ComponentModel.Component
      DotRas.CredentialPromptDialog
See Also

CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `CredentialPromptDialog` type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CredentialPromptDialog()</td>
<td>Initializes a new instance of the <code>CredentialPromptDialog</code> class.</td>
</tr>
<tr>
<td>CredentialPromptDialog(IContainer)</td>
<td>Initializes a new instance of the <code>CredentialPromptDialog</code> class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets all CredentialPromptDialog properties to their default values. (Overides CommonDialog.Reset().)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
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</tr>
<tr>
<td><strong>ShowDialog()</strong></td>
<td>Runs a common dialog box with a default owner. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
<tr>
<td><strong>ShowDialog(IWin32Window)</strong></td>
<td>Runs a common dialog box with the specified owner. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a <code>String</code> containing the name of the <code>Component</code>, if any. This method should not be overridden. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Caption</td>
<td>Gets or sets the caption of the dialog.</td>
</tr>
<tr>
<td>Container</td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>DisableUserName</td>
<td>Gets or sets a value indicating whether the username should be disabled.</td>
</tr>
<tr>
<td>MaxPasswordLength</td>
<td>Gets or sets the maximum length of the password.</td>
</tr>
<tr>
<td>MaxUserNameLength</td>
<td>Gets or sets the maximum length of the user name.</td>
</tr>
<tr>
<td>Message</td>
<td>Gets or sets the message of the dialog.</td>
</tr>
<tr>
<td>NotifyIncorrectPassword</td>
<td>Gets or sets a value indicating whether the user should be notified the password was incorrect.</td>
</tr>
<tr>
<td>Password</td>
<td>Gets or sets the password.</td>
</tr>
<tr>
<td>SaveChecked</td>
<td>Gets or sets a value indicating whether the save checkbox will be checked.</td>
</tr>
<tr>
<td>ShowSaveCheckBox</td>
<td>Gets or sets a value indicating whether the 'Remember my password' checkbox will be shown.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Tag</td>
<td>Gets or sets an object that contains data about the control. (Inherited from CommonDialog.)</td>
</tr>
<tr>
<td>TargetName</td>
<td>Gets or sets the target name.</td>
</tr>
<tr>
<td>UserName</td>
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</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method. (Inherited from Component.)</td>
</tr>
<tr>
<td>HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box. (Inherited from CommonDialog.)</td>
</tr>
</tbody>
</table>
See Also

CredentialPromptDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
CredentialPromptDialog Constructor

CredentialPromptDialog Class See Also Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
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See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
CredentialPromptDialog Constructor

Initializes a new instance of the CredentialPromptDialog class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

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<tr>
<td><strong>C#</strong></td>
<td><code>public CredentialPromptDialog()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: CredentialPromptDialog()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; CredentialPromptDialog</code></td>
</tr>
</tbody>
</table>
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
CredentialPromptDialog Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
initializes a new instance of the CredentialPromptDialog class.

namespace: DotRas
assembly: DotRas (in DotRas.dll) version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public CredentialPromptDialog(
    IContainer container
)
```

**Visual Basic**

```vbnet
Public Sub New (  
    container As IContainer
)
```

**Visual C++**

```cpp
public:  
CredentialPromptDialog(  
    IContainer^ container
)
```

**F#**

```fsharp
new :  
    container : IContainer -> CredentialPromptDia
```

**Parameters**

*container*

Type: `System.ComponentModel.IContainer`

An `IContainer` that will contain the component.
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
CredentialPromptDialog Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `CredentialPromptDialog` type exposes the following members.
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<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden. (Inherited from Component.)</td>
</tr>
</tbody>
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See Also

CredentialPromptDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
CredentialPromptDialog.Reset Method

Resets all CredentialPromptDialog properties to their default values.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
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<tr>
<th>Language</th>
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</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public override void Reset()</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Overrides Sub Reset</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: virtual void Reset() override</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>abstract Reset : unit -&gt; unit override</td>
</tr>
<tr>
<td></td>
<td>override Reset : unit -&gt; unit</td>
</tr>
</tbody>
</table>
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `CredentialPromptDialog` type exposes the following members.
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<tr>
<td><strong>DisableUserName</strong></td>
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<tr>
<td><strong>MaxPasswordLength</strong></td>
<td>Gets or sets the maximum length of the password.</td>
</tr>
<tr>
<td><strong>MaxUserNameLength</strong></td>
<td>Gets or sets the maximum length of the user name.</td>
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<td>Gets or sets the message of the dialog.</td>
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</tr>
</tbody>
</table>
See Also

CredentialPromptDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the caption of the dialog.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
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</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public string Caption { get; set; }</code></td>
</tr>
</tbody>
</table>
| Visual Basic | `Public Property Caption As String
Get
Set` |
| Visual C++ | `public:
property String^ Caption {
    String^ get ();
    void set (String^ value);
}` |
| F#       | `member Caption : string with get, set` |

### Property Value

Type: [String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
CredentialPromptDialog.DisableUserName Property

Gets or sets a value indicating whether the username should be disabled.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
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<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool DisableUserName { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property DisableUserName As Boolean</code></td>
</tr>
<tr>
<td></td>
<td>Get</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: bool DisableUserName {</code></td>
</tr>
<tr>
<td></td>
<td><code>bool get ();</code></td>
</tr>
<tr>
<td></td>
<td><code>void set (bool value);</code></td>
</tr>
<tr>
<td></td>
<td><code>}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member DisableUserName : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

**Type:** [Boolean](#)
Remarks

Setting this to true automatically removes the 'Remember my password' checkbox.
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

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CredentialPromptDialog.MaxPasswordLength Property

Gets or sets the maximum length of the password.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public int MaxPasswordLength { get; set; }
```

### Visual Basic

```vbnet
Public Property MaxPasswordLength As Integer
    Get
    Set
```

### Visual C++

```cpp
public:
    property int MaxPasswordLength {
        int get ()
        void set (int value);
    }
```

### F#

```fsharp
member MaxPasswordLength : int with get, set
```

## Property Value

Type: [Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>value</code> must be greater than or equal to zero, and less than or equal to 256.</td>
</tr>
</tbody>
</table>
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
CredentialPromptDialog.MaxUserNameLength Property

Gets or sets the maximum length of the user name.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

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<tr>
<td><strong>C#</strong></td>
<td><code>public int MaxUserNameLength { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property MaxUserNameLength As Integer Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int MaxUserNameLength { int get (); void set (int value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member MaxUserNameLength : int with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
### Exceptions

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See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the message of the dialog.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

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<td><code>public string Message { get; set; }</code></td>
</tr>
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<td><strong>Visual Basic</strong></td>
<td><code>Public Property Message As String Get Set</code></td>
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<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property String^ Message { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Message : string with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](#)
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the user should be notified the password was incorrect.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool NotifyIncorrectPassword { get; set; }
```

**Visual Basic**

```vbnet
Public Property NotifyIncorrectPassword As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool NotifyIncorrectPassword { 
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member NotifyIncorrectPassword : bool with get, set
```

### Property Value

Type: **Boolean**
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the password.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string Password { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property Password As String
Get
Set` |
| **Visual C++** | `public:
property String^ Password {
    String^ get ();
    void set (String^ value);` |
| **F#**    | `member Password : string with get, set` |

### Property Value

Type: [String](#)
 Remarks
Upon return from the dialog, this value will contain the password entered by the user.
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the save checkbox will be checked.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool SaveChecked { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property SaveChecked As Boolean  Get  Set</td>
</tr>
</tbody>
</table>
| **Visual C++** | public:
|             | property bool SaveChecked {               |
|             |       bool get ();                        |
|             |       void set (bool value);             |
|             | }                                         |
| **F#**     | member SaveChecked : bool with get, set   |

**Property Value**

Type: [Boolean](#)
Remarks

Upon return from the dialog, this value will contain the last state of the checkbox.
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace
Gets or sets a value indicating whether the 'Remember my password' checkbox will be shown.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Property Value**

Type: **Boolean**
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
CredentialPromptDialog.TargetName Property

Gets or sets the target name.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public string TargetName { get; set; }
```

**Visual Basic**

```vbnet
Public Property TargetName As String
    Get
    Set
```

**Visual C++**

```cpp
public:
    property String^ TargetName {
        String^ get ();
        void set (String^ value);
    }
```

**F#**

```fsharp
member TargetName : string with get, set
```

### Property Value

Type: [String](#)
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
CredentialPromptDialog. UserName Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```
public string UserName { get; set; }
```

### Visual Basic

```
Public Property UserName As String
    Get
    Set
```

### Visual C++

```
public:
    property String^ UserName {
        String^ get ();
        void set (String^ value);
    }
```

### F#

```
member UserName : string with get, set
```
Remarks

Upon return from the dialog, this value will contain the user name entered by the user.
See Also

CredentialPromptDialog Class
CredentialPromptDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **CredentialPromptDialog** type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✂️ Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>✋ HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
</tbody>
</table>
See Also

CredentialPromptDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Provides data for the **DialCompleted** event.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public class DialCompletedEventArgs : AsyncCompletedEventArgs
```

**Visual Basic**

```vbnet
Public Class DialCompletedEventArgs
    Inherits AsyncCompletedEventArgs
```

**Visual C++**

```cpp
public ref class DialCompletedEventArgs : public AsyncCompletedEventArgs
```

**F#**

```fsharp
type DialCompletedEventArgs =
    class
        inherit AsyncCompletedEventArgs
    end
```
Inheritance Hierarchy

- `System.Object`
- `System.EventArgs`
- `System.ComponentModel.AsyncCompletedEventArgs`
- `DotRas.DialCompletedEventArgs`
See Also

DialCompletedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `DialCompletedEventArgs` type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DialCompletedEventArgs</strong></td>
<td>Initializes a new instance of the <a href="#">DialCompletedEventArgs</a> class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>RaiseExceptionIfNecessary</strong></td>
<td>Raises a user-supplied exception if an asynchronous operation failed. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.threading.tasks.asynccompletedeventargs">AsyncCompletedEventArgs</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cancelled</strong></td>
<td>Gets a value indicating whether an asynchronous operation has been canceled. (Inherited from AsyncCompletedEventArgs.)</td>
</tr>
<tr>
<td><strong>Connected</strong></td>
<td>Gets a value indicating whether the connection attempt successfully connected.</td>
</tr>
<tr>
<td><strong>Error</strong></td>
<td>Gets a value indicating which error occurred during an asynchronous operation. (Inherited from AsyncCompletedEventArgs.)</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td>Gets the handle whose connection attempt completed.</td>
</tr>
<tr>
<td><strong>TimedOut</strong></td>
<td>Gets a value indicating whether the asynchronous dial attempt timed out.</td>
</tr>
<tr>
<td><strong>UserState</strong></td>
<td>Gets the unique identifier for the asynchronous task. (Inherited from AsyncCompletedEventArgs.)</td>
</tr>
</tbody>
</table>
See Also

DialCompletedEventArgs Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
DialCompletedEventArgs Constructor

Initializes a new instance of the `DialCompletedEventArgs` class.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public DialCompletedEventArgs(
    RasHandle handle,
    Exception error,
    bool cancelled,
    bool timedOut,
    bool connected,
    Object userState)
```

#### Visual Basic

```vbnet
Public Sub New (  
    handle As RasHandle,  
    error As Exception,  
    cancelled As Boolean,  
    timedOut As Boolean,  
    connected As Boolean,  
    userState As Object)
```

#### Visual C++

```cpp
public:
DialCompletedEventArgs(
    RasHandle^ handle,  
    Exception^ error,  
    bool cancelled,  
    bool timedOut,  
    bool connected,  
    Object^ userState)
```

#### F#

```fsharp
public DialCompletedEventArgs(  
    handle : RasHandle,  
    error : Exception,  
    cancelled : bool,  
    timedOut : bool,  
    connected : bool,  
    userState : Object)
```
new:

- **handle**: `RasHandle` *
- **error**: `Exception` *
- **cancelled**: `bool` *
- **timedOut**: `bool` *
- **connected**: `bool` *
- **userState**: `Object` -> `DialCompletedEventArgs`

**Parameters**

**handle**
Type: `DotRas.RasHandle`
The handle whose connection attempt completed.

**error**
Type: `System.Exception`
Any error that occurred during the asynchronous operation.

**cancelled**
Type: `System.Boolean`
**true** if the asynchronous operation was cancelled, otherwise **false**.

**timedOut**
Type: `System.Boolean`
**true** if the operation timed out, otherwise **false**.

**connected**
Type: `System.Boolean`
**true** if the connection attempt successfully connected, otherwise **false**.

**userState**
Type: `System.Object`
The optional user-supplied state object.
See Also

DialCompletedEventArgs Class
DialCompletedEventArgs Members
DotRas Namespace

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The `DialCompletedEventArgs` type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>RaiseExceptionIfNecessary</strong></td>
<td>Raises a user-supplied exception if an asynchronous operation failed. (Inherited from <a href="#">AsyncCompletedEventArgs</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
See Also

DialCompletedEventArgs Class
DotRas Namespace

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The `DialCompletedEventArgs` type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cancelled</strong></td>
<td>Gets a value indicating whether an asynchronous operation has been canceled. (Inherited from AsyncCompletedEventArgs.)</td>
</tr>
<tr>
<td><strong>Connected</strong></td>
<td>Gets a value indicating whether the connection attempt successfully connected.</td>
</tr>
<tr>
<td><strong>Error</strong></td>
<td>Gets a value indicating which error occurred during an asynchronous operation. (Inherited from AsyncCompletedEventArgs.)</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td>Gets the handle whose connection attempt completed.</td>
</tr>
<tr>
<td><strong>TimedOut</strong></td>
<td>Gets a value indicating whether the asynchronous dial attempt timed out.</td>
</tr>
<tr>
<td><strong>UserState</strong></td>
<td>Gets the unique identifier for the asynchronous task. (Inherited from AsyncCompletedEventArgs.)</td>
</tr>
</tbody>
</table>
See Also

DialCompletedEventArgs Class
DotRas Namespace

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DialCompletedEventArgs.Connected Property

Gets a value indicating whether the connection attempt successfully connected.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool Connected { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property Connected As Boolean
Get
```

### Visual C++

```cpp
public:
    property bool Connected {
        bool get ();
    }
```

### F#

```fsharp
member Connected : bool with get
```

## Property Value

Type: [Boolean](#)
See Also

DialCompletedEventArgs Class
DialCompletedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
DialCompletedEventArgs(Handle Property)

DialCompletedEventArgs Class  See Also Send Feedback

Gets the handle whose connection attempt completed.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasHandle Handle { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Handle As RasHandle Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasHandle^ Handle { RasHandle^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Handle : RasHandle with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasHandle](#)
See Also

DialCompletedEventArgs Class
DialCompletedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
DialCompletedEventArgs.TimedOut Property

Gets a value indicating whether the asynchronous dial attempt timed out.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public bool TimedOut { get; }</code></td>
<td><code>Public ReadOnly Property TimedOut As Boolean</code></td>
<td><code>public: property bool TimedOut {</code></td>
<td><code>member TimedOut : bool with get</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td><code>    bool get ();</code></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

DialCompletedEventArgs Class
DialCompletedEventArgs Members
DotRas Namespace

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InvalidHandleException Class

The exception that is thrown when an invalid connection handle is used.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
[SerializableAttribute]
public class InvalidHandleException : Exception
``` |
| Visual Basic | ```
<SerializableAttribute>
Public Class InvalidHandleException
    Inherits Exception
``` |
| Visual C++ | ```
[SerializableAttribute]
public ref class InvalidHandleException : public Exception
``` |
| F#       | ```
[<SerializableAttribute>]
type InvalidHandleException =
    class
        inherit Exception
end
``` |
- Inheritance Hierarchy
  - System.Object
  - System.Exception
  - DotRas.InvalidHandleException
See Also

InvalidHandleException Members
DotRas Namespace

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InvalidHandleException Members

The `InvalidHandleException` type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidHandleException()</td>
<td>Initializes a new instance of the InvalidHandleException class.</td>
</tr>
<tr>
<td>InvalidHandleException(String)</td>
<td>Initializes a new instance of the InvalidHandleException class.</td>
</tr>
<tr>
<td>InvalidHandleException(RasHandle)</td>
<td>Initializes a new instance of the InvalidHandleException class.</td>
</tr>
<tr>
<td>InvalidHandleException(SerializationInfo, StreamingContext)</td>
<td>Initializes a new instance of the InvalidHandleException class.</td>
</tr>
<tr>
<td>InvalidHandleException(String, Exception)</td>
<td>Initializes a new instance of the InvalidHandleException class.</td>
</tr>
<tr>
<td>InvalidHandleException(RasHandle, String)</td>
<td>Initializes a new instance of the InvalidHandleException class.</td>
</tr>
<tr>
<td>InvalidHandleException(RasHandle, String, Exception)</td>
<td>Initializes a new instance of the InvalidHandleException class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetBaseException</strong></td>
<td>When overridden in a derived class, returns the Exception that is the root cause of one or more subsequent exceptions. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Populates a SerializationInfo with the data needed to serialize the target object. (Overrides Exception.GetObjectData(SerializationInfo, StreamingContext).)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the runtime type of the current instance. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Creates and returns a string representation of the current exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data</strong></td>
<td>Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td>Gets the <code>RasHandle</code> that caused the exception.</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>Gets or sets a link to the help file associated with this exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>HResult</strong></td>
<td>Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>Gets the <code>Exception</code> instance that caused the current exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Gets a message that describes the current exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Gets or sets the name of the application or the object that causes the error. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>StackTrace</strong></td>
<td>Gets a string representation of the immediate frames on the call stack. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>Gets the method that throws the current exception. (Inherited from <code>Exception</code>.)</td>
</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
See Also

InvalidHandleException Class
DotRas Namespace

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InvalidHandleException Constructor

See Also Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>InvalidHandleException()</code></td>
<td>Initializes a new instance of the <code>InvalidHandleException</code> class.</td>
</tr>
<tr>
<td><code>InvalidHandleException(String)</code></td>
<td>Initializes a new instance of the <code>InvalidHandleException</code> class.</td>
</tr>
<tr>
<td><code>InvalidHandleException(RasHandle)</code></td>
<td>Initializes a new instance of the <code>InvalidHandleException</code> class.</td>
</tr>
<tr>
<td><code>InvalidHandleException(SerializationInfo, StreamingContext)</code></td>
<td>Initializes a new instance of the <code>InvalidHandleException</code> class.</td>
</tr>
<tr>
<td><code>InvalidHandleException(String, Exception)</code></td>
<td>Initializes a new instance of the <code>InvalidHandleException</code> class.</td>
</tr>
<tr>
<td><code>InvalidHandleException(RasHandle, String)</code></td>
<td>Initializes a new instance of the <code>InvalidHandleException</code> class.</td>
</tr>
<tr>
<td><code>InvalidHandleException(RasHandle, String, Exception)</code></td>
<td>Initializes a new instance of the <code>InvalidHandleException</code> class.</td>
</tr>
</tbody>
</table>
See Also

InvalidHandleException Class
InvalidHandleException Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException Constructor

Initializes a new instance of the `InvalidHandleException` class.

**Namespace**: DotRas

**Assembly**: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public InvalidHandleException()</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Sub New</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: InvalidHandleException()</td>
</tr>
<tr>
<td>F#</td>
<td>new : unit -&gt; InvalidHandleException</td>
</tr>
</tbody>
</table>
See Also

InvalidHandleException Class
InvalidHandleException Members
InvalidHandleException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException Constructor (String)

Initializes a new instance of the `InvalidHandleException` class.

**Namespace:** [DotRas](https://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#        | public InvalidHandleException(  
|           |     string message  
|           | ) |
| Visual Basic | Public Sub New (  
|              |     message As String  
|              | ) |
| Visual C++ | public:  
|            | InvalidHandleException(  
|            |     String^ message  
|            | ) |
| F#        | new : message : string -> InvalidHandleException |

### Parameters

*message*

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

A message that describes the error.
See Also

InvalidHandleException Class
InvalidHandleException Members
InvalidHandleException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException Constructor (RasHandle)

Initializes a new instance of the InvalidHandleException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public InvalidHandleException(
    RasHandle handle
)
```

**Visual Basic**

```vbnet
Public Sub New (  
    handle As RasHandle
)
```

**Visual C++**

```cpp
public:  
InvalidHandleException(  
    RasHandle^ handle
)
```

**F#**

```fsharp
new : handle : RasHandle -> InvalidHandleException
```

### Parameters

**handle**

Type: `DotRas.RasHandle`

The `RasHandle` that caused the exception.
See Also

InvalidHandleException Class
InvalidHandleException Members
InvalidHandleException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException Constructor (SerializationInfo, StreamingContext)

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
protected InvalidHandleException(
    SerializationInfo info,
    StreamingContext context
)
```

#### Visual Basic

```vbnet
Protected Sub New (
    info As SerializationInfo,
    context As StreamingContext
)
```

#### Visual C++

```cpp
protected:
InvalidHandleException(
    SerializationInfo^ info,
    StreamingContext context
)
```

#### F#

```fsharp
new :
    info : SerializationInfo *
    context : StreamingContext -> InvalidHandleEx
```

### Parameters

- **info**
  Type: `System.Runtime.Serialization.SerializationInfo`
  The object that holds the serialized object data.

- **context**
Type: System.Runtime.Serialization.StreamingContext
The contextual information about the source or destination.
See Also

InvalidHandleException Class
InvalidHandleException Members
InvalidHandleException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException Constructor (String, Exception)

Initializes a new instance of the InvalidHandleException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public InvalidHandleException(</td>
</tr>
<tr>
<td>string message,</td>
</tr>
<tr>
<td>Exception innerException</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub New (</td>
</tr>
<tr>
<td>message As String,</td>
</tr>
<tr>
<td>innerException As Exception</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>InvalidHandleException(</td>
</tr>
<tr>
<td>String^ message,</td>
</tr>
<tr>
<td>Exception^ innerException</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>new :</td>
</tr>
<tr>
<td>message : string *</td>
</tr>
<tr>
<td>innerException : Exception -&gt; InvalidHandleException</td>
</tr>
</tbody>
</table>

**Parameters**

*message*
Type: System.String
A message that describes the error.

*innerException*
Type: **System.Exception**

The exception that is the cause of the current exception, or null reference (**Nothing** in Visual Basic) if no inner exception is specified.
- See Also

`InvalidHandleException Class`
`InvalidHandleException Members`
`InvalidHandleException Overload`
`DotRas Namespace`

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException Constructor (RasHandle, String)

Initializes a new instance of the InvalidHandleException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public InvalidHandleException(
    RasHandle handle,
    string message
)
```

**Visual Basic**

```vbnet
Public Sub New (
    handle As RasHandle,
    message As String
)
```

**Visual C++**

```cpp
public:
InvalidHandleException(
    RasHandle^ handle,
    String^ message
)
```

**F#**

```fsharp
new :
    handle : RasHandle *
    message : string -> InvalidHandleException
```

### Parameters

- **handle**
  - Type: [DotRas.RasHandle](#)
  - The [RasHandle](#) that caused the exception.

- **message**
Type: `System.String`
A message that describes the error.
See Also

InvalidHandleException Class
InvalidHandleException Members
InvalidHandleException Overload
DotRas Namespace
InvalidHandleException Constructor (RasHandle, String, Exception)

Initializes a new instance of the InvalidHandleException class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public InvalidHandleException(
    RasHandle handle,
    string message,
    Exception innerException
)
```

### Visual Basic

```vbnet
Public Sub New (
    handle As RasHandle,
    message As String,
    innerException As Exception
)
```

### Visual C++

```cpp
public:
InvalidHandleException(
    RasHandle^ handle,
    String^ message,
    Exception^ innerException
)
```

### F#

```fsharp
new :
    handle : RasHandle *
    message : string *
    innerException : Exception -> InvalidHandleException
```

## Parameters

- `handle`
Type: **DotRas.RasHandle**
The **RasHandle** that caused the exception.

$message$
Type: **System.String**
A message that describes the error.

$innerException$
Type: **System.Exception**
The exception that is the cause of the current exception, or null reference (**Nothing** in Visual Basic) if no inner exception is specified.
See Also

InvalidHandleException Class
InvalidHandleException Members
InvalidHandleException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **InvalidHandleException** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetBaseException</strong></td>
<td>When overridden in a derived class, returns the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Populates a <a href="https://docs.microsoft.com/en-us/dotnet/api/system.serialization.serializationinfo">SerializationInfo</a> with the data needed to serialize the target object. (Overrrides <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception.getobjectdata">Exception.GetObjectData</a>(SerializationInfo, StreamingContext).)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the runtime type of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Creates and returns a string representation of the current exception. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a>.)</td>
</tr>
</tbody>
</table>
See Also

InvalidHandleException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException.GetObjectData Method

Overridden. Populates a SerializationInfo with the data needed to serialize the target object.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public override void GetObjectData(
    SerializationInfo info,
    StreamingContext context
)
```

### Visual Basic

```vbnet
Public Overrides Sub GetObjectData ( info As SerializationInfo, context As StreamingContext )
```

### Visual C++

```cpp
public:
    virtual void GetObjectData(
        SerializationInfo^ info,
        StreamingContext context
    ) override
```

### F#

```fsharp
abstract GetObjectData : info : SerializationInfo * context : StreamingContext -> unit
override GetObjectData : info : SerializationInfo * context : StreamingContext -> unit
```

## Parameters

- **info**
  - Type: `System.Runtime.Serialization.SerializationInfo`
The object that holds the serialized object data.

context
Type: System.Runtime.Serialization.StreamingContext
The contextual information about the source or destination.

Implements
ISerializable.GetObjectData(SerializationInfo, StreamingContext)
_Exception.GetObjectData(SerializationInfo, StreamingContext)
See Also

InvalidHandleException Class
InvalidHandleException Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException Properties

The `InvalidHandleException` type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data</strong></td>
<td>Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td>Gets the RasHandle that caused the exception.</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>Gets or sets a link to the help file associated with this exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>HResult</strong></td>
<td>Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>Gets the Exception instance that caused the current exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Gets a message that describes the current exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Gets or sets the name of the application or the object that causes the error. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>StackTrace</strong></td>
<td>Gets a string representation of the immediate frames on the call stack. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>Gets the method that throws the current exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
See Also

InvalidHandleException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
InvalidHandleException.Handle Property

Gets the RasHandle that caused the exception.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public RasHandle Handle { get; }</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public ReadOnly Property Handle As RasHandle Get</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: property RasHandle^ Handle { RasHandle^ get (); }</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>member Handle : RasHandle with get</code></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasHandle](#)
See Also

InvalidHandleException Class
InvalidHandleException Members
DotRas Namespace

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The `InvalidHandleException` type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
See Also

InvalidHandleException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents a locally unique identifier (LUID).

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### C#

```csharp
[SerializableAttribute]
public struct Luid : IEquatable<Luid>, IFormattable
```

### Visual Basic

```vbnet
<SerializableAttribute>
Public Structure Luid
    Implements IEquatable(Of Luid), IFormattable
```

### Visual C++

```cpp
[SerializableAttribute]
public value class Luid : IEquatable<Luid>, IFormattable
```

### F#

```fsharp
[<SealedAttribute>]
[<SerializableAttribute>]
type Luid =
    struct
        interface IEquatable<Luid>
        interface IFormattable
    end
```
### Examples

This example shows how to create a new `Luid` structure.

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Luid l = Luid.NewLuid();</code></td>
<td><code>Dim l As Luid = Luid.NewLuid()</code></td>
</tr>
</tbody>
</table>
See Also

Luid Members
DotRas Namespace

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The **Luid** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luid</td>
<td>Initializes a new instance of the <code>Luid</code> structure.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals(Object)</strong></td>
<td>Indicates whether this instance and a specified object are equal. (Overrides <code>ValueType.Equals(Object).</code>)</td>
</tr>
<tr>
<td><strong>Equals(Luid)</strong></td>
<td>Indicates whether this instance and a specified object are equal.</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Overridden. Returns the hash code for this instance. (Overrides <code>ValueType.GetHashCode()</code>. )</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>NewLuid</strong></td>
<td>Generates a new locally unique identifier.</td>
</tr>
<tr>
<td><strong>ToString()</strong></td>
<td>Returns a <code>String</code> representation of this locally unique identifier. (Overrides <code>ValueType.ToString()</code>. )</td>
</tr>
<tr>
<td><strong>ToString(String)</strong></td>
<td>Returns a <code>String</code> representation of this locally unique identifier.</td>
</tr>
<tr>
<td><strong>ToString(String, IFormatProvider)</strong></td>
<td>Returns a <code>String</code> representation of this locally unique identifier.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Equality</td>
<td>Indicates whether the objects are equal.</td>
</tr>
<tr>
<td>Inequality</td>
<td>Indicates whether the objects are not equal.</td>
</tr>
</tbody>
</table>
### Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty</td>
<td>Represents an empty Luid. This field is read-only.</td>
</tr>
</tbody>
</table>
See Also

Luid Structure
DotRas Namespace

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Luid Constructor

Initializes a new instance of the Luid structure.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **C#** | `public Luid(  
 int lowPart,  
 int highPart  
 )` |
| **Visual Basic** | `Public Sub New (  
 lowPart As Integer,  
 highPart As Integer  
 )` |
| **Visual C++** | `public:  
 Luid(  
 int lowPart,  
 int highPart  
 )` |
| **F#** | `new :  
 lowPart : int *  
 highPart : int -> Luid` |

### Parameters

- **lowPart**
  - Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
  - The low part.

- **highPart**
Type: System.Int32
The high part.
See Also

Luid Structure
Luid Members
DotRas Namespace

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The `Luid` type exposes the following members.
### Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty</td>
<td>Represents an empty <strong>Luid</strong>. This field is read-only.</td>
</tr>
</tbody>
</table>
See Also

Luid Structure
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Luid.Empty Field

Represents an empty Luid. This field is read-only.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public static readonly Luid Empty</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Shared ReadOnly Empty As Luid</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: static initonly Luid Empty</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>static val Empty: Luid</code></td>
</tr>
</tbody>
</table>

### Field Value

Type: [Luid](#)
See Also

Luid Structure
Luid Members
DotRas Namespace

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The **Luid** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals(Object)</strong></td>
<td>Indicates whether this instance and a specified object are equal. (Overrides ValueType.Equals(Object).)</td>
</tr>
<tr>
<td><strong>Equals(Luid)</strong></td>
<td>Indicates whether this instance and a specified object are equal.</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Overridden. Returns the hash code for this instance. (Overrides ValueType.GetHashCode().)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>NewLuid</strong></td>
<td>Generates a new locally unique identifier.</td>
</tr>
<tr>
<td><strong>ToString()</strong></td>
<td>Returns a String representation of this locally unique identifier. (Overrides ValueType.ToString().)</td>
</tr>
<tr>
<td><strong>ToString(String)</strong></td>
<td>Returns a String representation of this locally unique identifier.</td>
</tr>
<tr>
<td><strong>ToString(String, IFormatProvider)</strong></td>
<td>Returns a String representation of this locally unique identifier.</td>
</tr>
</tbody>
</table>
See Also

Luid Structure
DotRas Namespace

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DotRas SDK Documentation

Luid.Equals Method

Luid Structure  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals(Object)</strong></td>
<td>Indicates whether this instance and a specified object are equal. (Overrides <code>ValueType.Equals(Object)</code>.)</td>
</tr>
<tr>
<td><strong>Equals(Luid)</strong></td>
<td>Indicates whether this instance and a specified object are equal.</td>
</tr>
</tbody>
</table>
See Also

Luid Structure
Luid Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Indicates whether this instance and a specified object are equal.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | `public override bool Equals(  
|          | Object obj  
|          | )` |
| **Visual Basic** | `Public Overrides Function Equals (  
|    | obj As Object  
|    | ) As Boolean` |
| **Visual C++** | `public:  
|    | virtual bool Equals(  
|    | Object^ obj  
|    | ) override` |
| **F#**   | `abstract Equals :  
|    | obj : Object -> bool  
|    | override Equals :  
|    | obj : Object -> bool` |

### Parameters

**obj**

Type: `System.Object`

The object to compare the current instance to.

### Return Value

Type: `Boolean`
true if the objects are equal, otherwise false.
See Also

Luid Structure
Luid Members
Equals Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Indicates whether this instance and a specified object are equal.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | public bool Equals(
|          | Luid other |
|          | ) |
| **Visual Basic** | Public Function Equals ( 
| | other As Luid |
| | ) As Boolean |
| **Visual C++** | public: virtual bool Equals( 
| | Luid other |
| | ) sealed |
| **F#** | abstract Equals : 
| | other : Luid -> bool |
| | override Equals : 
| | other : Luid -> bool |

### Parameters

**other**
Type: [DotRas.Luid](#)
The Luid to compare the current instance to.

### Return Value

Type: [Boolean](#)
true if the objects are equal, otherwise false.

Implements
IEquatable<T>, Equals(T)
See Also

- Luid Structure
- Luid Members
- Equals Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Luid.GetHashCode Method

Overridden. Returns the hash code for this instance.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public override int GetHashCode()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Overrides Function GetHashCode As Integer</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: virtual int GetHashCode() override</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>abstract GetHashCode : unit -&gt; int override GetHashCode : unit -&gt; int</code></td>
</tr>
</tbody>
</table>

### Return Value

Type: **Int32**
The hash code for the instance.
See Also

Luid Structure
Luid Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Generates a new locally unique identifier.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public static Luid NewLuid()
```

#### Visual Basic

```vbnet
Public Shared Function NewLuid As Luid
```

#### Visual C++

```cpp
public:
    static Luid NewLuid()
```

#### F#

```fsharp
static member NewLuid : unit -> Luid
```

### Return Value

Type: [Luid](#)

A new [Luid](#) structure.
Remarks

A Luid is guaranteed to be unique only on the system on which it was generated. Also, the uniqueness of a Luid is guaranteed only until the system is restarted.
See Also

- Luid Structure
- Luid Members
- DotRas Namespace

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Luid.ToString Method

Luid Structure See Also Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ToString()</code></td>
<td>Returns a <code>String</code> representation of this locally unique identifier. (Overrides <code>ValueType.ToString()</code>.)</td>
</tr>
<tr>
<td><code>ToString(String)</code></td>
<td>Returns a <code>String</code> representation of this locally unique identifier.</td>
</tr>
<tr>
<td><code>ToString(String, IFormatProvider)</code></td>
<td>Returns a <code>String</code> representation of this locally unique identifier.</td>
</tr>
</tbody>
</table>
See Also

Luid Structure
Luid Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Returns a `String` representation of this locally unique identifier.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public override string ToString()</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Overrides Function ToString As String</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: virtual String^ ToString() override</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>abstract ToString : unit -&gt; string override ToString : unit -&gt; string</td>
</tr>
</tbody>
</table>

### Return Value

Type: [String](#)  
A **String** representation of this locally unique identifier.
See Also

Luid Structure
Luid Members
ToString Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Luid.ToString Method (String)

Returns a **String** representation of this locally unique identifier.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**        | ```
public string ToString(
    string format
)
``` |
| **Visual Basic** | ```
Public Function ToString (   
    format As String
) As String
``` |
| **Visual C++** | ```
public:
String^ ToString(  
    String^ format
)
``` |
| **F#**        | ```
member ToString :  
    format : string -> string
``` |

### Parameters

**format**

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

A format indicating how to format the value of this [Luid](https://docs.microsoft.com/en-us/dotnet/api/system.guid).

### Return Value

Type: [String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

A [String](https://docs.microsoft.com/en-us/dotnet/api/system.string) representation of this locally unique identifier.
See Also

Luid Structure
Luid Members
ToString Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Luid.ToString Method (String, IFormatProvider)

Luid Structure  See Also  Send Feedback

Returns a String representation of this locally unique identifier.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public string ToString(
    string format,
    IFormatProvider formatProvider
)
```

### Visual Basic

```vbnet
Public Function ToString (  
    format As String,  
    formatProvider As IFormatProvider
) As String
```

### Visual C++

```cpp
public:
  virtual String^ ToString(
    String^ format,  
    IFormatProvider^ formatProvider
  ) sealed
```

### F#

```fsharp
abstract ToString :  
  format : string *  
  formatProvider : IFormatProvider -> string

override ToString :  
  format : string *  
  formatProvider : IFormatProvider -> string
```

## Parameters

- **format**  
  Type: **System.String**
A format indicating how to format the value of this `Luid`.

`formatProvider`  
Type: `System.IFormatProvider`  
An `IFormatProvider` that supplies culture-specific formatting services.

**Return Value**  
Type: `String`  
A `String` representation of this locally unique identifier.

**Implements**  
`IFormattable.ToString(String, IFormatProvider)`
See Also

Luid Structure
Luid Members
ToString Overload
DotRas Namespace

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Luid Operators

The **Luid** type exposes the following members.
## Operators

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equality</td>
<td>Indicates whether the objects are equal.</td>
</tr>
<tr>
<td>Inequality</td>
<td>Indicates whether the objects are not equal.</td>
</tr>
</tbody>
</table>
See Also

Luid Structure
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Indicates whether the objects are equal.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#** | public static bool operator ==(  
Luid objA,  
Luid objB  
) |
| **Visual Basic** | Public Shared Operator = (  
    objA As Luid,  
    objB As Luid  
) As Boolean |
| **Visual C++** | public:  
    static bool operator ==(
    Luid objA,  
    Luid objB  
) |
| **F#** | static let inline (=)  
    objA : Luid  
    objB : Luid : bool |

### Parameters

- **objA**  
  Type: [DotRas.Luid](#)  
  The first object to check.
- **objB**
Type: DotRas, Luid

The second object to check.

**Return Value**

Type: **Boolean**

**true** if the objects are equal, otherwise **false**.
See Also

Luid Structure
Luid Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Indicates whether the objects are not equal.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public static bool operator !=( Luid objA, Luid objB )</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Shared Operator &lt;&gt; ( objA As Luid, objB As Luid ) As Boolean</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: static bool operator !=( Luid objA, Luid objB )</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>static let inline (&lt;&gt;) objA : Luid * objB : Luid : bool</td>
</tr>
</tbody>
</table>

### Parameters

- **objA**
  - Type: DotRas.Luid
  - The first object to check.

- **objB**
Type: DotRas, Luid
The second object to check.

**Return Value**
Type: Boolean
**true** if the objects are not equal, otherwise **false**.
See Also

Luid Structure
Luid Members
DotRas Namespace

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RasAmbInfo Class

Contains the results of a Authentication Message Block (AMB) projection operation. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```
[SerializableAttribute]
public sealed class RasAmbInfo
```

#### Visual Basic

```
<SerializableAttribute>
Public NotInheritable Class RasAmbInfo
```

#### Visual C++

```
[SerializableAttribute]
public ref class RasAmbInfo sealed
```

#### F#

```
[<SealedAttribute>]
[<SerializableAttribute>]
type RasAmbInfo = class end
```
Remarks

This object is created from an Amb projection operation on a connection.
Examples

This example shows how to perform an AMB projection operation on an active connection.

**C#**

```csharp
RasConnection connection = RasConnection.GetActiveConnection();
if (connection != null)
{
    RasAmbInfo info = (RasAmbInfo)connection.GetProjectionInfo(RasProjectionType.Amb);
    if (info != null)
    {
        // info now contains the AMB projection data.
    }
}
```

**Visual Basic**

```vbnet
Dim connection As RasConnection = RasConnection.GetActiveConnection()
If connection IsNot Nothing Then
    Dim info As RasAmbInfo = CType(connection.GetProjectionInfo(RasProjectionType.Amb), RasAmbInfo)
    If info IsNot Nothing Then
        ' info now contains the AMB projection data.
    End If
End If
```
Inheritance Hierarchy

**System.Object**

**DotRas.RasAmbInfo**
See Also

RasAmbInfo Members
DotRas Namespace

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The **RasAmbInfo** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>Lana</td>
<td>Gets the NetBIOS network adapter identifier on which the remote access connection was established.</td>
</tr>
<tr>
<td>NetBIosErrorMessage</td>
<td>Gets the NetBIOS error message (if applicable).</td>
</tr>
</tbody>
</table>
See Also

RasAmbInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasAmbInfo** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasAmbInfo Class
DotRas Namespace

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The **RasAmbInfo** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>Lana</td>
<td>Gets the NetBIOS network adapter identifier on which the remote access connection was established.</td>
</tr>
<tr>
<td>NetBiosErrorMessage</td>
<td>Gets the NetBIOS error message (if applicable).</td>
</tr>
</tbody>
</table>
See Also

RasAmbInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasAmbInfo.ErrorCode Property

Gets the error code (if any) that occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int ErrorCode { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ErrorCode As Integer Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int ErrorCode { int get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: `.Int32`
Remarks

This member indicates the actual fatal error (if any) that occurred during the control protocol negotiation, the error that prevented the projection from completing successfully.
See Also

RasAmbInfo Class
RasAmbInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasAmbInfo.Lana Property

Gets the NetBIOS network adapter identifier on which the remote access connection was established.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public byte Lana { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property Lana As Byte Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public:(property unsigned char Lana { unsigned char get (); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member Lana : byte with get</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Byte](#)
Remarks

This member contains MaxValue if a connection was not established.
See Also

RasAmbInfo Class
RasAmbInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasAmbInfo.NetBiosErrorMessage Property

Gets the NetBIOS error message (if applicable).

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public string NetBiosErrorMessage { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property NetBiosErrorMessage As String
Get
```

**Visual C++**

```cpp
public:
property String^ NetBiosErrorMessage {
    String^ get ();
}
```

**F#**

```fsharp
member NetBiosErrorMessage : string with get
```

### Property Value

Type: [String](#)
See Also

RasAmbInfo Class
RasAmbInfo Members
DotRas Namespace

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RasAutoDialAddress Class

Represents a network address in the AutoDial mapping database. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute] public sealed class RasAutoDialAddress</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt; Public NotInheritable Class RasAutoDialAddress</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute] public ref class RasAutoDialAddress sealed</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;] [&lt;SerializableAttribute&gt;] type RasAutoDialAddress = class end</code></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasAutoDialAddress
See Also

RasAutoDialAddress Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasAutoDialAddress** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasAutoDialAddress</td>
<td>Initializes a new instance of the RasAutoDialAddress class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <strong>Object</strong> is equal to the current <strong>Object</strong>. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <strong>Type</strong> of the current instance. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <strong>Object</strong>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Gets the network address.</td>
</tr>
<tr>
<td>Entries</td>
<td>Gets the collection of entries associated with the address.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialAddress Class
DotRas Namespace
Initializes a new instance of the RasAutoDialAddress class.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasAutoDialAddress(
    string address
)
```

**Visual Basic**

```vbnet
Public Sub New (
    address As String
)
```

**Visual C++**

```cpp
public:
RasAutoDialAddress(
    String^ address
)
```

**F#**

```fsharp
new :
    address : string -> RasAutoDialAddress
```

### Parameters

- **address**
  - Type: `System.String`
  - The network address.
See Also

RasAutoDialAddress Class
RasAutoDialAddress Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasAutoDialAddress** type exposes the following members.
# Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialAddress Class
DotRas Namespace

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The **RasAutoDialAddress** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Gets the network address.</td>
</tr>
<tr>
<td>Entries</td>
<td>Gets the collection of entries associated with the address.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialAddress Class
DotRas Namespace

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RasAutoDialAddress.Address Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets the network address.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public string Address { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property Address As String Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property String^ Address { String^ get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member Address : string with get</td>
</tr>
</tbody>
</table>

### Property Value
Type: [String](#)
See Also

RasAutoDialAddress Class
RasAutoDialAddress Members
DotRas Namespace

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RasAutoDialAddress.Entries Property

Gets the collection of entries associated with the address.

_NAMESPACE: DotRas

.Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public Collection&lt;RasAutoDialEntry&gt; Entries { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Entries As Collection(Of RasAutoDialEntry)</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:
property Collection<RasAutoDialEntry^>^ Entries { Collection<RasAutoDialEntry^>^ get (); }` |
| **F#** | `member Entries : Collection<RasAutoDialEntry> with get` |

## Property Value

Type: `Collection<RasAutoDialEntry>`
See Also

RasAutoDialAddress Class
RasAutoDialAddress Members
DotRas Namespace

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DotRas SDK Documentation

RasAutoDialAddressCollection Class

Members  See Also  Send Feedback

Represents a strongly-typed collection of RasAutoDialAddress objects. This class cannot be inherited.

Namespace: DotRas

Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
| public sealed class RasAutoDialAddressCollection : RasCollection | Public NotInheritable Class RasAutoDialAddressCollection Inherits RasCollection(Of RasAutoDialAddress) | public ref class RasAutoDialAddressCollection sealed | [<SealedAttribute>] type RasAutoDialAddressCollection = class
| | | |     inherit RasCollection<RasAutoDialAddress>
| | | | end |
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
DotRas.Design.RasCollection(RasAutoDialAddress)
DotRas.RasAutoDialAddressCollection
See Also

RasAutoDialAddressCollection Members
DotRas Namespace

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The **RasAutoDialAddressCollection** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Adds the item to the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>Clear</td>
<td>Clears the items in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>Contains</td>
<td>Determines whether the phone book contains the entry specified. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>CopyTo</td>
<td>Copies the entries to a Array starting at a particular index. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetEnumerator</td>
<td>Returns an enumerator that iterates through the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>IndexOf</td>
<td>Searches for the specified item within the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance.</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td>RemoveAt</td>
<td>Removes the entry at the specified index in the collection.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Count</td>
<td>Gets the number of entries contained in the collection.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>IsReadOnly</td>
<td>Gets a value indicating whether the collection is read-only.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>Item(String)</td>
<td>Gets an entry from the collection.</td>
</tr>
<tr>
<td>Item(Int32)</td>
<td>Gets an entry from the collection.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialAddressCollection Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasAutoDialAddressCollection** type exposes the following members.
## Methods

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<td>Determines whether the phone book contains the entry specified. (Inherited from RasCollection(TObject).)</td>
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</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
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<tr>
<td><strong>IndexOf</strong></td>
<td>Searches for the specified item within the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
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<td>Obtains a lifetime service object to control the lifetime policy for this instance.</td>
</tr>
<tr>
<td><code>Remove</code></td>
<td>Removes an entry from the collection.</td>
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<tr>
<td><code>RemoveAt</code></td>
<td>Removes the entry at the specified index in the collection.</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a string that represents the current object.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialAddressCollection Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasAutoDialAddressCollection** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Count</strong></td>
<td>Gets the number of entries contained in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>IsReadOnly</strong></td>
<td>Gets a value indicating whether the collection is read-only. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Item(String)</strong></td>
<td>Gets an entry from the collection.</td>
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<tr>
<td><strong>Item(Int32)</strong></td>
<td>Gets an entry from the collection. (Inherited from RasCollection(TObject).)</td>
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</tbody>
</table>
See Also

RasAutoDialAddressCollection Class
DotRas Namespace

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RasAutoDialAddressCollection.Item Property

RasAutoDialAddressCollection Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item(String)</td>
<td>Gets an entry from the collection.</td>
</tr>
<tr>
<td>Item(Int32)</td>
<td>Gets an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

- RasAutoDialAddressCollection Class
- RasAutoDialAddressCollection Members
- DotRas Namespace
RasAutoDialAddressCollection.Item Property (String)

Gets an entry from the collection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasAutoDialAddress this[string address] { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Default Property Item (address As String) As RasAutoDialAddress
    Get
```

#### Visual C++

```cpp
public:
    property RasAutoDialAddress^ default[String^ address];
    RasAutoDialAddress^ get (String^ address);
```

#### F#

```fsharp
member Item : RasAutoDialAddress with get
```

### Parameters

*address*

Type: `System.String`

The address to get.

### Return Value

Type: `RasAutoDialAddress`

An `RasAutoDialAddress` object.
See Also

RasAutoDialAddressCollection Class
RasAutoDialAddressCollection Members
Item Overload
DotRas Namespace

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RasAutoDialEntry Class

 Represents an entry associated with a network address in the AutoDial mapping database. This class cannot be inherited.

 **Namespace:** DotRas
 **Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>[SerializableAttribute]</code> public sealed class RasAutoDialEntry</td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>&lt;SerializableAttribute&gt;</code> Public NotInheritable Class RasAutoDialEntry</td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>[SerializableAttribute]</code> public ref class RasAutoDialEntry sealed</td>
</tr>
<tr>
<td>F#</td>
<td><code>[@SealedAttribute]</code> <code>[@SerializableAttribute]</code> type RasAutoDialEntry = class end</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasAutoDialEntry
See Also

RasAutoDialEntry Members
DotRas Namespace

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The RasAutoDialEntry type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>RasAutoDialEntry()</code></td>
<td>Initializes a new instance of the <code>RasAutoDialEntry</code> class.</td>
</tr>
<tr>
<td><code>RasAutoDialEntry(Int32, String)</code></td>
<td>Initializes a new instance of the <code>RasAutoDialEntry</code> class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DialingLocation</strong></td>
<td>Gets or sets the TAPI dialing location.</td>
</tr>
<tr>
<td><strong>EntryName</strong></td>
<td>Gets or sets the name of an existing phone book entry to dial.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialEntry Class
DotRas Namespace

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## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasAutoDialEntry()</td>
<td>Initializes a new instance of the RasAutoDialEntry class.</td>
</tr>
<tr>
<td>RasAutoDialEntry(Int32, String)</td>
<td>Initializes a new instance of the RasAutoDialEntry class.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialEntry Class
RasAutoDialEntry Members
DotRas Namespace

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RasAutoDialEntry Constructor

Initializes a new instance of the RasAutoDialEntry class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasAutoDialEntry()
```

**Visual Basic**

```vbnet
Public Sub New
```

**Visual C++**

```cpp
public:
RasAutoDialEntry()
```

**F#**

```fsharp
new : unit -> RasAutoDialEntry
```
See Also

RasAutoDialEntry Class
RasAutoDialEntry Members
RasAutoDialEntry Overload
DotRas Namespace

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RasAutoDialEntry Constructor (Int32, String)

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Initializes a new instance of the RasAutoDialEntry class.
## Syntax

**C#**

```csharp
public RasAutoDialEntry(
    int dialingLocation,
    string entryName
)
```

**Visual Basic**

```vbnet
Public Sub New (
    dialingLocation As Integer,
    entryName As String
)
```

**Visual C++**

```cpp
public:
RasAutoDialEntry(
    int dialingLocation,
    String^ entryName
)
```

**F#**

```fsharp
new :
    dialingLocation : int *
    entryName : string -> RasAutoDialEntry
```

## Parameters

**dialingLocation**
Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
The TAPI dialing location.

**entryName**
Type: `System.String`

The name of the existing phone book entry to dial.
See Also

RasAutoDialEntry Class
RasAutoDialEntry Members
RasAutoDialEntry Overload
DotRas Namespace
The **RasAutoDialEntry** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
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<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
</tr>
</tbody>
</table>
See Also

- RasAutoDialEntry Class
- DotRas Namespace

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The **RasAutoDialEntry** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DialingLocation</td>
<td>Gets or sets the TAPI dialing location.</td>
</tr>
<tr>
<td>EntryName</td>
<td>Gets or sets the name of an existing phone book entry to dial.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialEntry Class
DotRas Namespace

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RasAutoDialEntry.DialingLocation Property

Gets or sets the TAPI dialing location.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public int DialingLocation { get; set; }
```

**Visual Basic**

```vbnet
Public Property DialingLocation As Integer
    Get
    Set
```

**Visual C++**

```cpp
public:
    property int DialingLocation {
        int get ();
        void set (int value);
    }
```

**F#**

```fsharp
member DialingLocation : int with get, set
```

### Property Value

Type: [Int32](#)
Remarks

For more information about TAPI dialing locations, see the TAPI Programmer's Reference in the Platform SDK.
See Also

RasAutoDialEntry Class
RasAutoDialEntry Members
DotRas Namespace

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RasAutoDialEntry.EntryName Property

Gets or sets the name of an existing phone book entry to dial.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public string EntryName { get; set; }
```

**Visual Basic**

```vbnet
Public Property EntryName As String
    Get
    Set
```

**Visual C++**

```cpp
public:
property String^ EntryName {
    String^ get ();
    void set (String^ value);
}
```

**F#**

```fsharp
member EntryName : string with get, set
```

### Property Value

Type: [String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
See Also

RasAutoDialEntry Class
RasAutoDialEntry Members
DotRas Namespace
Provides methods to interact with the remote access service (RAS) AutoDial mapping database. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
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<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public sealed class RasAutoDialManager : Component</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public NotInheritable Class RasAutoDialManager Inherits Component</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public ref class RasAutoDialManager sealed : public Component</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>`[&lt;SealedAttribute&gt;] type RasAutoDialManager = class</td>
</tr>
<tr>
<td></td>
<td>inherit Component</td>
</tr>
<tr>
<td></td>
<td>end</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

- `System.Object`
- `System.MarshalByRefObject`
- `System.ComponentModel.Component`
- `DotRas.RasAutoDialManager`
See Also

RasAutoDialManager Members
DotRas Namespace

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The RasAutoDialManager type exposes the following members.
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasAutoDialManager()</td>
<td>Initializes a new instance of the RasAutoDialManager class.</td>
</tr>
<tr>
<td>RasAutoDialManager.IContainer</td>
<td>Initializes a new instance of the RasAutoDialManager class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
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<tr>
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<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>IsAutoDialEnabled</td>
<td>Indicates whether AutoDial is enabled for a specific TAPI dialing location.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden. (Inherited from Component.)</td>
</tr>
<tr>
<td>UpdateAutoDialStatus</td>
<td>Updates the AutoDial status for a specific TAPI dialing location.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Addresses</strong></td>
<td>Gets the collection of addresses in the AutoDial database.</td>
</tr>
<tr>
<td><strong>ConnectionQueryTimeout</strong></td>
<td>Gets or sets the length of time (in seconds) before the connection attempt is aborted.</td>
</tr>
<tr>
<td><strong>Container</strong></td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>DisableConnectionQuery</strong></td>
<td>Gets or sets a value indicating whether AutoDial displays a dialog box to query the user before creating a connection.</td>
</tr>
<tr>
<td><strong>FailedConnectionTimeout</strong></td>
<td>Gets or sets the length of time (in seconds) between AutoDial connection attempts.</td>
</tr>
<tr>
<td><strong>LogOnSessionDisable</strong></td>
<td>Gets or sets a value indicating whether the system disables all AutoDial connections for the current logon session.</td>
</tr>
<tr>
<td><strong>SavedAddressesLimit</strong></td>
<td>Gets or sets the maximum number of addresses that AutoDial stores in the registry.</td>
</tr>
<tr>
<td><strong>Site</strong></td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️ Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method. (Inherited from Component.)</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialManager Class
DotRas Namespace

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RasAutoDialManager Constructor

RasAutoDialManager Class See Also Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasAutoDialManager()</td>
<td>Initializes a new instance of the RasAutoDialManager class.</td>
</tr>
<tr>
<td>RasAutoDialManager(IContainer)</td>
<td>Initializes a new instance of the RasAutoDialManager class.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasAutoDialManager Constructor

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Initializes a new instance of the RasAutoDialManager class.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasAutoDialManager()</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: RasAutoDialManager()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>new : unit -&gt; RasAutoDialManager</code></td>
</tr>
</tbody>
</table>
See Also

RasAutoDialManager Class
RasAutoDialManager Members
RasAutoDialManager Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasAutoDialManager Constructor (.IContainer)

Initializes a new instance of the RasAutoDialManager class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public  RasAutoDialManager(
   .IContainer  container
)
```

Visual Basic

```vbnet
Public  Sub  New (  
    container  As  IContainer
)
```

Visual C++

```csharp
public:
RasAutoDialManager(
    IContainer^  container
)
```

F#

```fsharp
new  :
    container  :  IContainer  ->  RasAutoDialManager
```

Parameters

`container`  
Type:  `System.ComponentModel.IContainer`  
An  `IContainer`  that will contain this component.
See Also

RasAutoDialManager Class
RasAutoDialManager Members
RasAutoDialManager Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasAutoDialManager` type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
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<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
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<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>IsAutoDialEnabled</td>
<td>Indicates whether AutoDial is enabled for a specific TAPI dialing location.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden. (Inherited from Component.)</td>
</tr>
<tr>
<td>UpdateAutoDialStatus</td>
<td>Updates the AutoDial status for a specific TAPI dialing location.</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialManager Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Indicates whether AutoDial is enabled for a specific TAPI dialing location.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool IsAutoDialEnabled(
    int dialingLocation
)
```

**Visual Basic**

```vbnet
Public Function IsAutoDialEnabled ( 
    dialingLocation As Integer
) As Boolean
```

**Visual C++**

```cpp
public:
bool IsAutoDialEnabled(
    int dialingLocation
)
```

**F#**

```fsharp
member IsAutoDialEnabled : 
    dialingLocation : int -> bool
```

### Parameters

- **dialingLocation**
  
  Type: `System.Int32`
  
  The dialing location whose AutoDial status to retrieve.

### Return Value

Type: `Boolean`

- `true` if the AutoDial feature is currently enabled for the dialing location, otherwise `false`. 
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

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RasAutoDialManager.UpdateAutoDialStatus Method

Updates the AutoDial status for a specific TAPI dialing location.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool UpdateAutoDialStatus(
    int dialingLocation,
    bool enabled
)
```

### Visual Basic

```vbnet
Public Function UpdateAutoDialStatus (dialingLocation As Integer, enabled As Boolean) As Boolean
```

### Visual C++

```cpp
public:
bool UpdateAutoDialStatus(
    int dialingLocation,
    bool enabled
)
```

### F#

```fsharp
member UpdateAutoDialStatus :
    dialingLocation : int *
    enabled : bool -> bool
```

### Parameters

**dialingLocation**
Type: `System.Int32`
The TAPI dialing location to update.

**enabled**
Type: System.Boolean
true to enable AutoDial, otherwise false to disable it.

Return Value
Type: Boolean
true if the operation was successful, otherwise false.
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

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RasAutoDialManager Properties

See Also  Send Feedback

The **RasAutoDialManager** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addresses</td>
<td>Gets the collection of addresses in the AutoDial database.</td>
</tr>
<tr>
<td>ConnectionQueryTimeout</td>
<td>Gets or sets the length of time (in seconds) before the connection attempt is aborted.</td>
</tr>
<tr>
<td>Container</td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>DisableConnectionQuery</td>
<td>Gets or sets a value indicating whether AutoDial displays a dialog box to query the user before creating a connection.</td>
</tr>
<tr>
<td>FailedConnectionTimeout</td>
<td>Gets or sets the length of time (in seconds) between AutoDial connection attempts.</td>
</tr>
<tr>
<td>LogOnSessionDisable</td>
<td>Gets or sets a value indicating whether the system disables all AutoDial connections for the current logon session.</td>
</tr>
<tr>
<td>SavedAddressesLimit</td>
<td>Gets or sets the maximum number of addresses that AutoDial stores in the registry.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialManager Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasAutoDialManager.Addresses Property

Gets the collection of addresses in the AutoDial database.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasAutoDialAddressCollection Addresses { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property Addresses As RasAutoDialAddressCollection
Get
```

### Visual C++

```cpp
public:
property RasAutoDialAddressCollection^ Addresses {
RasAutoDialAddressCollection^ get ()
}
```

### F#

```fsharp
member Addresses : RasAutoDialAddressCollection with
```

## Property Value

Type: [RasAutoDialAddressCollection](#)
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace
RasAutoDialManager.ConnectionQueryTimeout Property

Gets or sets the length of time (in seconds) before the connection attempt is aborted.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public int ConnectionQueryTimeout { get; set; }
``` |
| Visual Basic | ```
Public Property ConnectionQueryTimeout As Integer
Get
Set
``` |
| Visual C++ | ```
public:
property int ConnectionQueryTimeout {
    int get ();
    void set (int value);
}
``` |
| F#       | ```
member ConnectionQueryTimeout : int with get, set
``` |

### Property Value

Type: [Int32](#)
Remarks

Before attempting an AutoDial connection, the system will display a dialog asking the user to confirm the system should dial.
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

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RasAutoDialManager.DisableConnectionQuery Property

Gets or sets a value indicating whether AutoDial displays a dialog box to query the user before creating a connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **C#**   | ```
public bool DisableConnectionQuery { get; set; }
``` |
| **Visual Basic** | ```
Public Property DisableConnectionQuery As Boolean
   Get
   Set
``` |
| **Visual C++** | ```
public:
   property bool DisableConnectionQuery {
      bool get ();
      void set (bool value);
   }
``` |
| **F#**   | ```
member DisableConnectionQuery : bool with get, set
``` |

**Property Value**

Type: [Boolean](#)
Remarks

true and the AutoDial database has the entry to dial, AutoDial creates a connection without displaying the dialog box.
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

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RasAutoDialManager.FailedConnectionTimeout Property

Gets or sets the length of time (in seconds) between AutoDial connection attempts.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public int FailedConnectionTimeout { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property FailedConnectionTimeout As Integer</td>
</tr>
<tr>
<td></td>
<td>Get</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property int FailedConnectionTimeout {</td>
</tr>
<tr>
<td></td>
<td>int get ();</td>
</tr>
<tr>
<td></td>
<td>void set (int value);</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member FailedConnectionTimeout : int with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](#)
Remarks

When an AutoDial connection attempt fails, the AutoDial service disables subsequent attempts to reach the same address for the timeout period. The default value is 5 seconds.
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

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Get or set a value indicating whether the system disables all AutoDial connections for the current logon session.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool LogOnSessionDisable { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property LogOnSessionDisable As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool LogOnSessionDisable { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member LogOnSessionDisable : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
Remarks

true if the AutoDial connections are disabled, otherwise false.
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

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RasAutoDialManager.SavedAddressesLimit Property

Gets or sets the maximum number of addresses that AutoDial stores in the registry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public int SavedAddressesLimit { get; set; }
```

#### Visual Basic

```vbnet
Public Property SavedAddressesLimit As Integer
    Get
    Set
```

#### Visual C++

```cpp
public:
property int SavedAddressesLimit {
    int get ();
    void set (int value);
}
```

#### F#

```fsharp
member SavedAddressesLimit : int with get, set
```

### Property Value

Type: [Int32](#)
Remarks

The default value is 100.
See Also

RasAutoDialManager Class
RasAutoDialManager Members
DotRas Namespace

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The `RasAutoDialManager` type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️ Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method. (Inherited from <code>Component</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasAutoDialManager Class
DotRas Namespace

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RasCcpInfo Class

Contains the results of a Compression Control Protocol (CCP) projection operation. This class cannot be inherited.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
[SerializableAttribute]
public sealed class RasCcpInfo
```

### Visual Basic

```vbnet
<SerializableAttribute>
Public NotInheritable Class RasCcpInfo
```

### Visual C++

```cpp
[SerializableAttribute]
public ref class RasCcpInfo sealed
```

### F#

```fsharp
[<SealedAttribute>]
[<SerializableAttribute>]
type RasCcpInfo = class end
```
Remarks

This object is created from a Ccp projection operation on a connection.
Examples

This example shows how to perform an CCP projection operation on an active connection.

C#

RasConnection connection = RasConnection.GetActiveConnection();
if (connection != null)
{
    RasCcpInfo info = (RasCcpInfo)connection.GetProjectionInfo(RasProjectionType.Ccp);
    if (info != null)
    {
        // info now contains the CCP projection data.
    }
}

Visual Basic

Dim connection As RasConnection = RasConnection.GetActiveConnection()
If connection IsNot Nothing Then
    Dim info As RasCcpInfo = CType(connection.GetProjectionInfo(RasProjectionType.Ccp), RasCcpInfo)
    If info IsNot Nothing Then
        ' info now contains the CCP projection data.
    End If
End If
Inheritance Hierarchy

System.Object
DotRas.RasCcpInfo
See Also

RasCcpInfo Members
DotRas Namespace

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The **RasCcpInfo** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompressionAlgorithm</td>
<td>Gets the compression algorithm in use by the client.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>Options</td>
<td>Gets the compression options on the client.</td>
</tr>
<tr>
<td>ServerCompressionAlgorithm</td>
<td>Gets the compression algorithm in use by the server.</td>
</tr>
<tr>
<td>ServerOptions</td>
<td>Gets the compression options on the server.</td>
</tr>
</tbody>
</table>
See Also

RasCcpInfo Class
DotRas Namespace
The **RasCcpInfo** type exposes the following members.
## Methods

<table>
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<tr>
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</tr>
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</table>
See Also

RasCcpInfo Class
DotRas Namespace

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The **RasCcpInfo** type exposes the following members.
### Properties

<table>
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<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
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<td>Gets the compression algorithm in use by the client.</td>
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<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
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<tr>
<td>Options</td>
<td>Gets the compression options on the client.</td>
</tr>
<tr>
<td>ServerCompressionAlgorithm</td>
<td>Gets the compression algorithm in use by the server.</td>
</tr>
<tr>
<td>ServerOptions</td>
<td>Gets the compression options on the server.</td>
</tr>
</tbody>
</table>
See Also

RasCcpInfo Class
DotRas Namespace
RasCcpInfo.CompressionAlgorithm Property

Gets the compression algorithm in use by the client.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**         | ```
public RasCompressionType CompressionAlgorithm {
    get;
}
``` |
| **Visual Basic** | ```
Public ReadOnly Property CompressionAlgorithm As RasCompressionType
Get
``` |
| **Visual C++** | ```
public:
property RasCompressionType CompressionAlgorithm {
    RasCompressionType get ();
}
``` |
| **F#**         | ```
member CompressionAlgorithm : RasCompressionType with
``` |

### Property Value

Type: [RasCompressionType](#)
See Also

RasCcpInfo Class  
RasCcpInfo Members  
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCcpInfo.ErrorCode Property

Gets the error code (if any) that occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public int ErrorCode { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property ErrorCode As Integer
    Get
```

**Visual C++**

```cpp
public:
property int ErrorCode {
    int get ();
}
```

**F#**

```fsharp
member ErrorCode : int with get
```

### Property Value

Type: **Int32**
Remarks

This member indicates the actual fatal error (if any) that occurred during the control protocol negotiation, the error that prevented the projection from completing successfully.
See Also

RasCcpInfo Class
RasCcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCcpInfo.Options Property

Gets the compression options on the client.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasCompressionOptions Options { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property Options As RasCompressionOptions
    Get
```

### Visual C++

```cpp
public:
    property RasCompressionOptions^ Options {
        RasCompressionOptions^ get ()
    }
```

### F#

```fsharp
member Options : RasCompressionOptions with get
```

## Property Value

Type: [RasCompressionOptions](#)
See Also

RasCcpInfo Class
RasCcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the compression algorithm in use by the server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasCompressionType ServerCompressionAlgorithm</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ServerCompressionAlgorithm As Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasCompressionType ServerCompressionAlgorithm; RasCompressionType get ();</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ServerCompressionAlgorithm : RasCompressionType</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasCompressionType](#)
See Also

RasCcpInfo Class
RasCcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCcpInfo.ServerOptions Property

Gets the compression options on the server.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasCompressionOptions ServerOptions { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Property ServerOptions As RasCompressionOptions
Get
```

#### Visual C++

```cpp
public:
    property RasCompressionOptions^ ServerOptions 
    { 
        RasCompressionOptions^ get (); 
    }
```

#### F#

```fsharp
member ServerOptions : RasCompressionOptions with get
```

### Property Value

Type: [RasCompressionOptions](#)
See Also

RasCcpInfo Class
RasCcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCompressionOptions Class

Represents remote access service (RAS) compression options. This class cannot be inherited.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;<code>public sealed class RasCompressionOptions : ICloneable</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt;</code>&lt;br&gt;<code>Public NotInheritable Class RasCompressionOptions&lt;br&gt;Implements ICloneable</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;<code>public ref class RasCompressionOptions sealed : ICloneable</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;] [&lt;SerializableAttribute&gt;]</code>&lt;br&gt;<code>type RasCompressionOptions =&lt;br&gt;    class&lt;br&gt;    interface ICloneable&lt;br&gt;end</code></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasCompressionOptions
See Also

RasCompressionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCompressionOptions** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clone</td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompressionOnly</td>
<td>Gets a value indicating whether compression without encryption will be used.</td>
</tr>
<tr>
<td>Encryption128Bit</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 128-bit keys.</td>
</tr>
<tr>
<td>Encryption40Bit</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 40-bit keys.</td>
</tr>
<tr>
<td>Encryption56Bit</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 56-bit keys.</td>
</tr>
<tr>
<td>HistoryLess</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is in stateless mode.</td>
</tr>
</tbody>
</table>
See Also

RasCompressionOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCompressionOptions** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
See Also

RasCompressionOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Creates a copy of this object.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public Object Clone()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function Clone As Object</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:
virtual Object^ Clone() sealed` |
| **F#**   | `abstract Clone : unit -> Object
override Clone : unit -> Object` |

### Return Value

Type: [Object](#)

A new [RasCompressionOptions](#) object.

### Implements

[ICloneable.Clone()](#)
See Also

RasCompressionOptions Class
RasCompressionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCompressionOptions** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompressionOnly</td>
<td>Gets a value indicating whether compression without encryption will be used.</td>
</tr>
<tr>
<td>Encryption128Bit</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 128-bit keys.</td>
</tr>
<tr>
<td>Encryption40Bit</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 40-bit keys.</td>
</tr>
<tr>
<td>Encryption56Bit</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 56-bit keys.</td>
</tr>
<tr>
<td>HistoryLess</td>
<td>Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is in stateless mode.</td>
</tr>
</tbody>
</table>
See Also

RasCompressionOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCompressionOptions.CompressionOnly Property

Gets a value indicating whether compression without encryption will be used.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **C#**     | ```
public bool CompressionOnly { get; }
``` |
| **Visual Basic** | ```
Public Readonly Property CompressionOnly As Boolean
Get
``` |
| **Visual C++** | ```
public:
property bool CompressionOnly {
    bool get (
    );
}
``` |
| **F#**     | ```
member CompressionOnly : bool with get
``` |

### Property Value

Type: [Boolean](#)
See Also

RasCompressionOptions Class
RasCompressionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCompressionOptions.Encryption128Bit Property

Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 128-bit keys.

**Namespace:** [DotRas](DotRas)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool Encryption128Bit { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property Encryption128Bit As Boolean
Get
```

### Visual C++

```cpp
public:
property bool Encryption128Bit {
  bool get ();
}
```

### F#

```fsharp
member Encryption128Bit : bool with get
```

## Property Value

Type: [Boolean](#)
See Also

RasCompressionOptions Class
RasCompressionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCompressionOptions.Encryption40Bit Property

Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 40-bit keys.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public bool Encryption40Bit { get; }
```

Visual Basic

```vbnet
Public ReadOnly Property Encryption40Bit As Boolean Get
```

Visual C++

```cpp
public:
property bool Encryption40Bit {
    bool get ();
}
```

F#

```fsharp
member Encryption40Bit : bool with get
```

Property Value
Type: Boolean
See Also

RasCompressionOptions Class
RasCompressionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCompressionOptions.Encryption56Bit Property

Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is using 56-bit keys.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public bool Encryption56Bit { get; }
``` |
| Visual Basic | ```
Public ReadOnly Property Encryption56Bit As Boolean
``` |
| Visual C++ | ```
public:
property bool Encryption56Bit {
    bool get ();
}
``` |
| F#       | ```
member Encryption56Bit : bool with get
``` |

## Property Value

Type: [Boolean](#)
See Also

RasCompressionOptions Class
RasCompressionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCompressionOptions.HistoryLess Property

Gets a value indicating whether Microsoft Point-to-Point Encryption (MPPE) is in stateless mode.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
</tr>
</thead>
</table>
| `public bool HistoryLess { get; }` | `Public ReadOnly Property HistoryLess As Boolean Get` | `public: property bool HistoryLess {`  
|                        |                               | `    bool get ();`                |
|                        |                               | `}`                               |
| F#                     |                               |                                   |
| `member HistoryLess : bool with get` |                               |                                   |

**Property Value**

Type: [Boolean](#)
See Also

RasCompressionOptions Class
RasCompressionOptions Members
DotRas Namespace
RasCompressionType Enumeration

Defines the remote access service (RAS) compression algorithms.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum RasCompressionType</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Enumeration RasCompressionType</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public enum class RasCompressionType</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type RasCompressionType</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No compression in use.</td>
</tr>
<tr>
<td>Stac</td>
<td>5</td>
<td>STAC option 4.</td>
</tr>
<tr>
<td>Mppc</td>
<td>6</td>
<td>Microsoft Point-to-Point Compression (MPPC) protocol.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace
RasConnection Class

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Represents a remote access connection. This class cannot be inherited.
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
</tbody>
</table>
| ```
public sealed class RasConnection : MarshalByRefObject
``` |
| **Visual Basic** |
| ```
Public NotInheritable Class RasConnection
    Inherits MarshalByRefObject
``` |
| **Visual C++** |
| ```
public ref class RasConnection sealed : public MarshalByRefObject
``` |
| **F#** |
| ```
[<SealedAttribute>]
type RasConnection =
    class
        inherit MarshalByRefObject
    end
``` |
Remarks

Known Limitations

- A connection is not considered active until the connection has completed connecting successfully. If the connection attempt is still under way, the connection will not be available from GetActiveConnections() or other related methods.
Examples

The following example shows how to disconnect all active connections on the machine.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ReadOnlyCollection&lt;RasConnection&gt; connections = RasConnection.GetActiveConnections();</code></td>
</tr>
<tr>
<td><code>foreach (RasConnection connection in connections)</code></td>
</tr>
<tr>
<td>`{</td>
</tr>
<tr>
<td>connection.HangUp();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Dim connections As ReadOnlyCollection(Of RasConnection)</code></td>
</tr>
<tr>
<td><code>For Each connection As RasConnection In connections</code></td>
</tr>
<tr>
<td><code>   connection.HangUp();</code></td>
</tr>
<tr>
<td><code>Next</code></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

- System.Object
- System.MarshalByRefObject
- DotRas.RasConnection
See Also

RasConnection Members
DotRas Namespace

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The **RasConnection** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClearConnectionStatistics</td>
<td>Clears any accumulated statistics for the connection.</td>
</tr>
<tr>
<td>ClearLinkStatistics</td>
<td>Clears any accumulated statistics for the link in a multilink connection.</td>
</tr>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetActiveConnectionByHandle</td>
<td>Obsolete. Retrieves an active connection by the handle.</td>
</tr>
<tr>
<td>GetActiveConnectionById</td>
<td>Obsolete. Retrieves an active connection by the entry id.</td>
</tr>
<tr>
<td>GetActiveConnectionByName(String, String)</td>
<td>Obsolete. Retrieves an active connection by the entry name and phone book path.</td>
</tr>
<tr>
<td>GetActiveConnectionByName(String, String, StringComparison)</td>
<td>Obsolete. Retrieves an active connection by the entry name and phone book path.</td>
</tr>
<tr>
<td>GetActiveConnections</td>
<td>Retrieves a read-only list of active connections.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GetConnectionStatistics</td>
<td>Retrieves accumulated statistics for the connection.</td>
</tr>
<tr>
<td>GetConnectionStatus</td>
<td>Retrieves the connection status.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td>GetLinkStatistics</td>
<td>Retrieves accumulated statistics for the link in a multilink connection.</td>
</tr>
<tr>
<td>GetNapStatus</td>
<td>Retrieves the network access protection (NAP) status for a remote access connection.</td>
</tr>
<tr>
<td>GetProjectionInfo</td>
<td>Retrieves information about a remote access projection operation.</td>
</tr>
<tr>
<td>GetSubEntryHandle</td>
<td>Retrieves a connection handle for a subentry of a multilink connection.</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td>HangUp()</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Boolean)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Int32)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Int32, Boolean)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>Method Name</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>InitializeLifetimeService</code></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><code>UpdateConnection</code></td>
<td>Updates the tunnel endpoints of an Internet Key Exchange (IKEv2) connection.</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ConnectionOptions</strong></td>
<td>Gets the connection options.</td>
</tr>
<tr>
<td><strong>CorrelationId</strong></td>
<td>Gets the correlation id.</td>
</tr>
<tr>
<td><strong>Device</strong></td>
<td>Gets the device through which the connection has been established.</td>
</tr>
<tr>
<td><strong>EntryId</strong></td>
<td>Gets the Guid that represents the phone book entry.</td>
</tr>
<tr>
<td><strong>EntryName</strong></td>
<td>Gets the name of the phone book entry used to establish the remote access connection.</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td>Gets the handle of the connection.</td>
</tr>
<tr>
<td><strong>PhoneBookPath</strong></td>
<td>Gets the full path and filename to the phone book (PBK) containing the entry for this connection.</td>
</tr>
<tr>
<td><strong>SessionId</strong></td>
<td>Gets the logon session id in which the connection was established.</td>
</tr>
<tr>
<td><strong>SubEntryId</strong></td>
<td>Gets the one-based subentry index of the connected link in a multilink connection.</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
DotRas Namespace

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The **RasConnection** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>ClearConnectionStatistics</strong></td>
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<tr>
<td><strong>ClearLinkStatistics</strong></td>
<td>Clears any accumulated statistics for the link in a multilink connection.</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetActiveConnectionByHandle</strong></td>
<td>Obsolete. Retrieves an active connection by the handle.</td>
</tr>
<tr>
<td><strong>GetActiveConnectionById</strong></td>
<td>Obsolete. Retrieves an active connection by the entry id.</td>
</tr>
<tr>
<td><strong>GetActiveConnectionByName(String, String)</strong></td>
<td>Obsolete. Retrieves an active connection by the entry name and phone book path.</td>
</tr>
<tr>
<td><strong>GetActiveConnectionByName(String, String, StringComparison)</strong></td>
<td>Obsolete. Retrieves an active connection by the entry name and phone book path.</td>
</tr>
<tr>
<td><strong>GetActiveConnections</strong></td>
<td>Retrieves a read-only list of active connections.</td>
</tr>
<tr>
<td>Method Name</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GetConnectionStatistics</td>
<td>Retrieves accumulated statistics for the connection.</td>
</tr>
<tr>
<td>GetConnectionStatus</td>
<td>Retrieves the connection status.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetLinkStatistics</td>
<td>Retrieves accumulated statistics for the link in a multilink connection.</td>
</tr>
<tr>
<td>GetNapStatus</td>
<td>Retrieves the network access protection (NAP) status for a remote access connection.</td>
</tr>
<tr>
<td>GetProjectionInfo</td>
<td>Retrieves information about a remote access projection operation.</td>
</tr>
<tr>
<td>GetSubEntryHandle</td>
<td>Retrieves a connection handle for a subentry of a multilink connection.</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>HangUp()</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Boolean)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Int32)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Int32, Boolean)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>InitializeLifetimeService</code></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><code>UpdateConnection</code></td>
<td>Updates the tunnel endpoints of an Internet Key Exchange (IKEv2) connection.</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Clears any accumulated statistics for the connection.

**Namespace:** [DotRas](#)  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool ClearConnectionStatistics()
```

**Visual Basic**

```vbnet
Public Function ClearConnectionStatistics As Boolean
```

**Visual C++**

```cpp
public:
bool ClearConnectionStatistics()
```

**F#**

```fsharp
member ClearConnectionStatistics : unit -> bool
```

### Return Value

Type: [Boolean](#)

`true` if the function succeeds, otherwise `false`. 
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Clears any accumulated statistics for the link in a multilink connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool ClearLinkStatistics()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function ClearLinkStatistics As Boolean</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: bool ClearLinkStatistics()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ClearLinkStatistics : unit -&gt; bool</code></td>
</tr>
</tbody>
</table>

**Return Value**

Type: [Boolean](#)

`true` if the function succeeds, otherwise `false`. 
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Retrieves an active connection by the handle.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
[ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)]
public static RasConnection GetActiveConnectionByHandle(RasHandle handle)
```

#### Visual Basic

```vbnet
<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)>
Public Shared Function GetActiveConnectionByHandle(handle As RasHandle) As RasConnection
```

#### Visual C++

```cpp
public:
[ObsoleteAttribute(L"This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)]
static RasConnection^ GetActiveConnectionByHandle(RasHandle^ handle)
```

#### F#

```fsharp
[<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)>]
static member GetActiveConnectionByHandle : handle : RasHandle -> RasConnection
```

### Parameters

- **handle**
Type: `DotRas.RasHandle`
The connection handle.

**Return Value**
Type: `RasConnection`
A `RasConnection` if the connection was found; otherwise, a null reference (`Nothing` in Visual Basic).
Examples

The following example shows how to retrieve an active connection from the handle.

C#

```csharp
RasHandle handle = null;
using (RasDialer dialer = new RasDialer())
{
    dialer.EntryName = "VPN Connection";
    dialer.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers);
    handle = dialer.Dial();
}
RasConnection connection = RasConnection.GetActiveConnectionByHandle(handle);
```

Visual Basic

```vbnet
Dim handle As RasHandle
Dim dialer As RasDialer
Try
    dialer = New RasDialer
    dialer.EntryName = "VPN Connection"
    dialer.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers)
    handle = dialer.Dial()
Finally
    If dialer IsNot Nothing Then
        dialer.Dispose()
    End If
End Try
RasConnection connection = RasConnection.GetActiveConnectionByHandle(handle)
```
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>handle</code> is a null reference (<strong>Nothing</strong> in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.GetActiveConnectionById Method

Retrieves an active connection by the entry id.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```
[ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.")] public static RasConnection GetActiveConnectionById(Guid entryId)
```

### Visual Basic

```
<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.")>
Public Shared Function GetActiveConnectionById (entryId As Guid) As RasConnection
```

### Visual C++

```
public:
[ObsoleteAttribute(L"This method will be removed in a future version, please use the GetActiveConnections method to find the connection.")]
static RasConnection^ GetActiveConnectionById( Guid entryId )
```

### F#

```
[<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.")>]
static member GetActiveConnectionById : entryId : Guid -> RasConnection
```

## Parameters

*entryId*
Type: \texttt{System.Guid}
The entry id of the connection.

\textbf{Return Value}

Type: \texttt{RasConnection}
A \texttt{RasConnection} if the connection was found; otherwise, a null reference (\texttt{Nothing} in Visual Basic).
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.GetActiveConnectionByName Method

RasConnection Class See Also Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetActiveConnectionByName(String, String)</td>
<td>Obsolete. Retrieves an active connection by the entry name and phone book path.</td>
</tr>
<tr>
<td>GetActiveConnectionByName(String, String, StringComparison)</td>
<td>Obsolete. Retrieves an active connection by the entry name and phone book path.</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.GetActiveConnectionByName Method (String, String)

Retrieves an active connection by the entry name and phone book path.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**     | `[ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)]
public static RasConnection GetActiveConnectionByName(string entryName, string phoneBookPath) |
| **Visual Basic** | `<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)> Public Shared Function GetActiveConnectionByName (entryName As String, phoneBookPath As String) As RasConnection` |
| **Visual C++** | `public:
[ObsoleteAttribute(L"This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)]
static RasConnection^ GetActiveConnectionByName(String^ entryName, String^ phoneBookPath)` |
| **F#**     | `[@<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.", false)>]
static member GetActiveConnectionByName : entryName : string * phoneBookPath : string -> RasConnection` |
**Parameters**

*entryName*
Type: `System.String`
The name of the entry.

*phoneBookPath*
Type: `System.String`
The path (including filename) of the phone book containing the entry.

**Return Value**
Type: `RasConnection`
A `RasConnection` if the connection was found; otherwise, a null reference (`Nothing` in Visual Basic).
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>entryName</code> and/or <code>phoneBookPath</code> are null reference (Nothing in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
RasConnection Members
GetActiveConnectionByName Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.GetActiveConnectionByEntryName Method (String, String, StringComparison)

Retrieves an active connection by the entry name and phone book path.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public static RasConnection GetActiveConnectionByName(string entryName, string phoneBookPath, StringComparison comparisonType)</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.")>`

```vbnet
Public Shared Function GetActiveConnectionByName (entryName As String, phoneBookPath As String, comparisonType As StringComparison) As RasConnection
```

| **Visual C++** | `public:
[ObsoleteAttribute(L"This method will be removed in a future version, please use the GetActiveConnections method to find the connection.")]
static RasConnection^ GetActiveConnectionByName(String^ entryName, String^ phoneBookPath, StringComparison comparisonType)` |

| **F#** | `[<ObsoleteAttribute("This method will be removed in a future version, please use the GetActiveConnections method to find the connection.")>]` |
static member GetActiveConnectionByName :
  entryName : string *
  phoneBookPath : string *
  comparisonType : StringComparison -> RasConnection

Parameters

entryName
Type: System.String
The name of the entry.

phoneBookPath
Type: System.String
The path (including filename) of the phone book containing the entry.

comparisonType
Type: System.StringComparison
The type of string comparison to perform.

Return Value

Type: RasConnection
A RasConnection if the connection was found; otherwise, a null reference (Nothing in Visual Basic).
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>entryName</code> and/or <code>phoneBookPath</code> are null reference (Nothing in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
RasConnection Members
GetActiveConnectionByName Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.GetActiveConnections Method

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Retrieves a read-only list of active connections.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public static ReadOnlyCollection&lt;RasConnection&gt; GetActiveConnections()</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Shared Function GetActiveConnections As ReadOnlyCollection&lt;RasConnection&gt;</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: static ReadOnlyCollection&lt;RasConnection^&gt;^ GetActiveConnections()</td>
</tr>
<tr>
<td>F#</td>
<td>static member GetActiveConnections : unit -&gt; ReadOnlyCollection&lt;RasConnection&gt;</td>
</tr>
</tbody>
</table>

### Return Value

Type: [ReadOnlyCollection(RasConnection)](ReadOnlyCollection(RasConnection))

A new read-only collection of [RasConnection](RasConnection) objects, or an empty collection if no active connections were found.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Retrieves accumulated statistics for the connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasLinkStatistics GetConnectionStatistics()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function GetConnectionStatistics As RasLinkStatistics</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasLinkStatistics^ GetConnectionStatistics()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member GetConnectionStatistics : unit -&gt; RasLinkStatistics</code></td>
</tr>
</tbody>
</table>

### Return Value

Type: [RasLinkStatistics](#)

A [RasLinkStatistics](#) object containing connection statistics.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Retrieves the connection status.

**Namespace**: DotRas  
**Assembly**: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasConnectionStatus GetConnectionStatus()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function GetConnectionStatus As RasConnectionStatus</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasConnectionStatus^ GetConnectionStatus()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member GetConnectionStatus : unit -&gt; RasConnectionStatus</code></td>
</tr>
</tbody>
</table>

### Return Value

Type: [RasConnectionStatus](#)  
An [RasConnectionStatus](#) containing connection status information.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.GetLinkStatistics Method

Retrieves accumulated statistics for the link in a multilink connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
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</tr>
</thead>
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<tr>
<td><strong>C#</strong></td>
<td><code>public RasLinkStatistics GetLinkStatistics()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function GetLinkStatistics As RasLinkStatistics</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasLinkStatistics^ GetLinkStatistics()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member GetLinkStatistics : unit -&gt; RasLinkStatistics</code></td>
</tr>
</tbody>
</table>

### Return Value

Type: [RasLinkStatistics](#)  
A [RasLinkStatistics](#) object containing connection statistics.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.GetNapStatus Method

Retrieves the network access protection (NAP) status for a remote access connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public RasNapStatus GetNapStatus()
```

Visual Basic

```vbnet
Public Function GetNapStatus As RasNapStatus
```

Visual C++

```cpp
public: RasNapStatus^ GetNapStatus()
```

F#

```fsharp
member GetNapStatus : unit -> RasNapStatus
```

Return Value

Type: `RasNapStatus`

A `RasNapStatus` object containing the NAP status.
Remarks

Windows Vista and later: This property is available.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace
RasConnection.GetProjectionInfo Method

Retrieves information about a remote access projection operation.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public Object GetProjectionInfo(
    RasProjectionType projectionType
)
```

**Visual Basic**

```vbnet
Public Function GetProjectionInfo (  
    projectionType As RasProjectionType
) As Object
```

**Visual C++**

```cpp
public:  
Object^ GetProjectionInfo(  
    RasProjectionType projectionType
)
```

**F#**

```fsharp
member GetProjectionInfo :  
    projectionType : RasProjectionType -> Object
```

**Parameters**

*projectionType*

Type: DotRas.RasProjectionType

The protocol of interest.

**Return Value**

Type: Object

The resulting projection information; otherwise, a null reference (**Nothing** in Visual Basic) if the protocol was not found.
Remarks

The type of projection operation performed determines the type of object that is returned.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Retrieves a connection handle for a subentry of a multilink connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasHandle GetSubEntryHandle( int subEntryId )</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function GetSubEntryHandle ( subEntryId As Integer ) As RasHandle</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasHandle^ GetSubEntryHandle( int subEntryId )</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member GetSubEntryHandle : subEntryId : int -&gt; RasHandle</code></td>
</tr>
</tbody>
</table>

### Parameters

**subEntryId**

Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)

The one-based index of the subentry to whose handle to retrieve.

### Return Value

Type: [RasHandle](https://aka.ms/RasHandle)

The handle of the subentry if available, otherwise a null reference ([Nothing](https://aka.ms/Nothing) in Visual Basic).
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>subEntryId</code> cannot be less than or equal to zero.</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

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RasConnection.HangUp Method

See Also
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HangUp()</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Boolean)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Int32)</td>
<td>Terminates the remote access connection.</td>
</tr>
<tr>
<td>HangUp(Int32, Boolean)</td>
<td>Terminates the remote access connection.</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Terminates the remote access connection.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public void HangUp()
```

### Visual Basic

```vbnet
Public Sub HangUp
```

### Visual C++

```cpp
public:
void HangUp()
```

### F#

```fsharp
member HangUp : unit -> unit
```
See Also

- RasConnection Class
- RasConnection Members
- HangUp Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Terminates the remote access connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public void HangUp(
    bool closeAllReferences
)
```

### Visual Basic

```vbnet
Public Sub HangUp (  
    closeAllReferences As Boolean  
)
```

### Visual C++

```cpp
public:
void HangUp(
    bool closeAllReferences
)
```

### F#

```fsharp
member HangUp : 
    closeAllReferences : bool -> unit
```

## Parameters

`closeAllReferences`
Type: `System.Boolean`

- `true` to disconnect all connection references, otherwise `false`. 
See Also

RasConnection Class
RasConnection Members
HangUp Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.HangUp Method (Int32)

Terminates the remote access connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public void HangUp(
    int pollingInterval
)
```

#### Visual Basic

```vbnet
Public Sub HangUp (  
    pollingInterval As Integer
)
```

#### Visual C++

```cpp
public:
void HangUp(
    int pollingInterval
)
```

#### F#

```fsharp
member HangUp : 
    pollingInterval : int -> unit
```

### Parameters

**pollingInterval**

Type: `System.Int32`

The length of time, in milliseconds, the thread must be paused while polling whether the connection has terminated.
See Also

RasConnection Class
RasConnection Members
HangUp Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.HangUp Method (Int32, Boolean)

Terminates the remote access connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public void HangUp(
    int pollingInterval,
    bool closeAllReferences
)
```

Visual Basic

```vbnet
Public Sub HangUp (pollingInterval As Integer,
                   closeAllReferences As Boolean)
```

Visual C++

```cpp
public:
void HangUp(
    int pollingInterval,
    bool closeAllReferences
)
```

F#

```fsharp
member HangUp : pollingInterval : int * closeAllReferences : bool -> unit
```

Parameters

`pollingInterval`

Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)

The length of time, in milliseconds, the thread must be paused while polling whether the connection has terminated.
closeAllReferences
Type: System.Boolean
true to disconnect all connection references, otherwise false.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentOutOfRangeException</code></td>
<td><code>pollingInterval</code> must be greater than or equal to zero.</td>
</tr>
</tbody>
</table>
See Also

- RasConnection Class
- RasConnection Members
- HangUp Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Updates the tunnel endpoints of an Internet Key Exchange (IKEv2) connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public void UpdateConnection(
    int interfaceIndex,
    IPAddress localEndPoint,
    IPAddress remoteEndPoint
)
```

### Visual Basic

```vbnet
Public Sub UpdateConnection (
    interfaceIndex As Integer,
    localEndPoint As IPAddress,
    remoteEndPoint As IPAddress
)
```

### Visual C++

```cpp
public:
void UpdateConnection(
    int interfaceIndex,
    IPAddress^ localEndPoint,
    IPAddress^ remoteEndPoint
)
```

### F#

```fsharp
member UpdateConnection :
    interfaceIndex : int *
localEndPoint : IPAddress *
remoteEndPoint : IPAddress -> unit
```

### Parameters

`interfaceIndex`
Type: `System.Int32`
The new interface index of the endpoint.

`localEndPoint`
Type: `System.Net.IPAddress`
The new local client endpoint of the connection.

`remoteEndPoint`
Type: `System.Net.IPAddress`
The new remote server endpoint of the connection.
Remarks

Windows 7 and later: This property is available.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasConnection** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ConnectionOptions</code></td>
<td>Gets the connection options.</td>
</tr>
<tr>
<td><code>CorrelationId</code></td>
<td>Gets the correlation id.</td>
</tr>
<tr>
<td><code>Device</code></td>
<td>Gets the device through which the connection has been established.</td>
</tr>
<tr>
<td><code>EntryId</code></td>
<td>Gets the Guid that represents the phone book entry.</td>
</tr>
<tr>
<td><code>EntryName</code></td>
<td>Gets the name of the phone book entry used to establish the remote access connection.</td>
</tr>
<tr>
<td><code>Handle</code></td>
<td>Gets the handle of the connection.</td>
</tr>
<tr>
<td><code>PhoneBookPath</code></td>
<td>Gets the full path and filename to the phone book (PBK) containing the entry for this connection.</td>
</tr>
<tr>
<td><code>SessionId</code></td>
<td>Gets the logon session id in which the connection was established.</td>
</tr>
<tr>
<td><code>SubEntryId</code></td>
<td>Gets the one-based subentry index of the connected link in a multilink connection.</td>
</tr>
</tbody>
</table>
See Also

RasConnection Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.ConnectionOptions Property

Gets the connection options.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public RasConnectionOptions ConnectionOptions { get; }
``` |
| Visual Basic | ```
Public ReadOnly Property ConnectionOptions As RasConnectionOptions
Get
``` |
| Visual C++ | ```
public:
property RasConnectionOptions^ ConnectionOptions { 
RasConnectionOptions^ get ();
}
``` |
| F#       | ```
member ConnectionOptions : RasConnectionOptions with
``` |

### Property Value

Type: [RasConnectionOptions](#)
Remarks

Windows XP and later: This property is available.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace
RasConnection.CorrelationId Property

Gets the correlation id.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public Guid CorrelationId { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property CorrelationId As Guid Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property Guid CorrelationId { Guid get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member CorrelationId : Guid with get</td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Guid](#)
Remarks

Windows Vista and later: This property is available.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the device through which the connection has been established.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasDevice Device { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Device As RasDevice Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasDevice^ Device { RasDevice^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Device : RasDevice with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasDevice](#)
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.EntryId Property

Gets the Guid that represents the phone book entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public Guid EntryId { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property EntryId As Guid Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property Guid EntryId { Guid get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member EntryId : Guid with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: **Guid**
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.EntryName Property

Gets the name of the phone book entry used to establish the remote access connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public string EntryName { get; }</td>
<td>Public ReadOnly Property EntryName As String Get</td>
<td>public: property String^ EntryName { String^ get (); }</td>
<td>member EntryName : string with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](#)
Remarks

If the connection was established without using an entry name, this member contains a PERIOD (.) followed by the phone number.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.Handle Property

Gets the handle of the connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasHandle Handle { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Handle As RasHandle Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasHandle^ Handle { RasHandle^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Handle : RasHandle with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasHandle](#)
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.PhoneBookPath Property

Gets the full path and filename to the phone book (PBK) containing the entry for this connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public string PhoneBookPath { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property PhoneBookPath As String
Get
``` |
| **Visual C++** | ```
public:
property String^ PhoneBookPath {
    String^ get ();
}
``` |
| **F#**   | ```
member PhoneBookPath : string with get
``` |

### Property Value

Type: [String](#)
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.SessionId Property

Gets the logon session id in which the connection was established.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public Luid SessionId { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property SessionId As Luid
Get
``` |
| **Visual C++** | ```
public:
property Luid SessionId { 
    Luid get ();
}
``` |
| **F#**   | ```
member SessionId : Luid with get
``` |

### Property Value

Type: [Luid](#)
Remarks

Windows XP and later: This property is available.
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnection.SubEntryId Property

Gets the one-based subentry index of the connected link in a multilink connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public int SubEntryId { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property SubEntryId As Integer
    Get
    ``
```

### Visual C++

```cpp
public:
    property int SubEntryId { 
        int get ();
    }```

### F#

```fsharp
member SubEntryId : int with get
```

## Property Value

Type: **Int32**
See Also

RasConnection Class
RasConnection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Provides data for remote access service (RAS) connection events.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public class RasConnectionEventArgs : EventArgs
```

**Visual Basic**

```vbnet
Public Class RasConnectionEventArgs
    Inherits EventArgs
```

**Visual C++**

```cpp
public ref class RasConnectionEventArgs : public EventArgs
```

**F#**

```fsharp
type RasConnectionEventArgs =
    class
        inherit EventArgs
    end
```
Inheritance Hierarchy

System.Object
System.EventArgs
DotRas.RasConnectionEventArgs
See Also

RasConnectionEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasConnectionEventArgs** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasConnectionEventArgs</td>
<td>Initializes a new instance of the RasConnectionEventArgs class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. <em>(Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>).)</em></td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. <em>(Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>).)</em></td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. <em>(Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>).)</em></td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. <em>(Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>).)</em></td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. <em>(Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>).)</em></td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>Connection</td>
<td>Gets the connection that caused the event.</td>
</tr>
</tbody>
</table>
See Also

- RasConnectionEventArgs Class
- DotRas Namespace
RasConnectionEventArgs Constructor

Initializes a new instance of the RasConnectionEventArgs class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasConnectionEventArgs(
    RasConnection connection
)
```

**Visual Basic**

```vbnet
Public Sub New (  
    connection As RasConnection
)
```

**Visual C++**

```cpp
public:
RasConnectionEventArgs(
    RasConnection^ connection
)
```

**F#**

```fsharp
new :  
    connection : RasConnection -> RasConnectionEventArgs
```

### Parameters

*connection*

Type: [DotRas.RasConnection](#)

The [RasConnection](#) that caused the event.
See Also

RasConnectionEventArgs Class
RasConnectionEventArgs Members
DotRas Namespace

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The **RasConnectionEventArgs** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasConnectionEventArgs Class
DotRas Namespace

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RasConnectionEventArgs Properties

See Also Send Feedback

The `RasConnectionEventArgs` type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>Gets the connection that caused the event.</td>
</tr>
</tbody>
</table>
See Also

RasConnectionEventArgs Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionEventArgs.Connection Property

Gets the connection that caused the event.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **C#**   | ```
public RasConnection Connection { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property Connection As RasConnection
Get
``` |
| **Visual C++** | ```
public:
property RasConnection^ Connection {
    RasConnection^ get ();
}
``` |
| **F#**  | ```
member Connection : RasConnection with get
``` |

### Property Value

Type: [RasConnection](#)
See Also

RasConnectionEventArgs Class
RasConnectionEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents connection options for a remote access service (RAS) connection. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```
[SerializableAttribute]
public sealed class RasConnectionOptions
```

### Visual Basic

```
<SerializableAttribute>
Public NotInheritable Class RasConnectionOptions
```

### Visual C++

```
[SerializableAttribute]
public ref class RasConnectionOptions sealed
```

### F#

```
[<SealedAttribute>]
[<SerializableAttribute>]
type RasConnectionOptions = class end
```
Inheritance Hierarchy

System.Object
DotRas.RasConnectionOptions
See Also

RasConnectionOptions Members
DotRas Namespace

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DotRas SDK Documentation

RasConnectionOptions Members

RasConnectionOptions Class Methods Properties See Also Send Feedback

The RasConnectionOptions type exposes the following members.
## Methods

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
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<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AllUsers</strong></td>
<td>Gets a value indicating whether the connection is available to all users.</td>
</tr>
<tr>
<td><strong>GlobalCredentials</strong></td>
<td>Gets a value indicating whether the credentials used for the connection are the default credentials.</td>
</tr>
<tr>
<td><strong>OwnerKnown</strong></td>
<td>Gets a value indicating whether the owner of the connection is known.</td>
</tr>
<tr>
<td><strong>OwnerMatch</strong></td>
<td>Gets a value indicating whether the owner of the connection matches the current user.</td>
</tr>
</tbody>
</table>
See Also

RasConnectionOptions Class
DotRas Namespace

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The \texttt{RasConnectionOptions} type exposes the following members.
## Methods

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<tr>
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<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasConnectionOptions Class
DotRas Namespace

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The **RasConnectionOptions** type exposes the following members.
## Properties

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</tr>
<tr>
<td>OwnerKnown</td>
<td>Gets a value indicating whether the owner of the connection is known.</td>
</tr>
<tr>
<td>OwnerMatch</td>
<td>Gets a value indicating whether the owner of the connection matches the current user.</td>
</tr>
</tbody>
</table>
See Also

RasConnectionOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionOptions.AllUsers Property

Gets a value indicating whether the connection is available to all users.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool AllUsers { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property AllUsers As Boolean Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool AllUsers {</td>
</tr>
<tr>
<td></td>
<td>bool get ();</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member AllUsers : bool with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: **Boolean**
See Also

RasConnectionOptions Class
RasConnectionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionOptions.GlobalCredentials Property

Gets a value indicating whether the credentials used for the connection are the default credentials.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public bool GlobalCredentials { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property GlobalCredentials As Boolean</td>
</tr>
<tr>
<td>Get</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property bool GlobalCredentials {</td>
</tr>
<tr>
<td>bool get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>member GlobalCredentials : bool with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: Boolean
See Also

RasConnectionOptions Class
RasConnectionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets a value indicating whether the owner of the connection is known.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

public bool OwnerKnown { get; }

Visual Basic

Public ReadOnly Property OwnerKnown As Boolean
    Get

Visual C++

public:
    property bool OwnerKnown {
        bool get ();
    }

F#

member OwnerKnown : bool with get

Property Value

Type: Boolean
See Also

RasConnectionOptions Class
RasConnectionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionOptions.OwnerMatch Property

Gets a value indicating whether the owner of the connection matches the current user.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool OwnerMatch { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property OwnerMatch As Boolean Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool OwnerMatch { bool get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member OwnerMatch : bool with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasConnectionOptions Class
RasConnectionOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionState Enumeration

Defines the different states available for a remote access service (RAS) connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum RasConnectionState</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration RasConnectionState</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public enum class RasConnectionState</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>type RasConnectionState</code></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenPort</td>
<td>0</td>
<td>The communications port is about to be opened.</td>
</tr>
<tr>
<td>PortOpened</td>
<td>1</td>
<td>The communications port has been opened successfully.</td>
</tr>
<tr>
<td>ConnectDevice</td>
<td>2</td>
<td>The device is about to be connected.</td>
</tr>
<tr>
<td>DeviceConnected</td>
<td>3</td>
<td>The device has connected successfully.</td>
</tr>
<tr>
<td>AllDevicesConnected</td>
<td>4</td>
<td>The devices within the device chain have all connected, a physical link has been established.</td>
</tr>
<tr>
<td>Authenticate</td>
<td>5</td>
<td>The authentication process is starting.</td>
</tr>
<tr>
<td>AuthNotify</td>
<td>6</td>
<td>An authentication event has occurred.</td>
</tr>
<tr>
<td>AuthRetry</td>
<td>7</td>
<td>The client has requested another authentication attempt.</td>
</tr>
<tr>
<td>AuthCallback</td>
<td>8</td>
<td>The remote access server has requested a callback number.</td>
</tr>
<tr>
<td>AuthChangePassword</td>
<td>9</td>
<td>The client has requested to change the password on the account.</td>
</tr>
<tr>
<td>AuthProject</td>
<td>10</td>
<td>The projection phase is starting.</td>
</tr>
<tr>
<td>AuthLinkSpeed</td>
<td>11</td>
<td>The link speed calculation phase is starting.</td>
</tr>
<tr>
<td>AuthAck</td>
<td>12</td>
<td>The authentication request is being acknowledged.</td>
</tr>
<tr>
<td>Event Description</td>
<td>Value</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PostCallbackAuthentication</td>
<td>13</td>
<td>The authentication (after callback) phase is starting.</td>
</tr>
<tr>
<td>Authenticated</td>
<td>14</td>
<td>The client has successfully completed authentication.</td>
</tr>
<tr>
<td>PrepareForCallback</td>
<td>15</td>
<td>The line is about to disconnect in preparation for callback.</td>
</tr>
<tr>
<td>WaitForModemReset</td>
<td>16</td>
<td>The client is delaying in order to give the modem time to reset itself in</td>
</tr>
<tr>
<td></td>
<td></td>
<td>preparation for callback.</td>
</tr>
<tr>
<td>WaitForCallback</td>
<td>17</td>
<td>The client is waiting for an incoming call from the remote access server.</td>
</tr>
<tr>
<td>Projected</td>
<td>18</td>
<td>The projection result information has been made available.</td>
</tr>
<tr>
<td>StartAuthentication</td>
<td>19</td>
<td>The user authentication is being started or reattempted.</td>
</tr>
<tr>
<td>CallbackComplete</td>
<td>20</td>
<td>The client has been called back and is about to resume authentication.</td>
</tr>
<tr>
<td>LogOnNetwork</td>
<td>21</td>
<td>The client is logging on to the network.</td>
</tr>
<tr>
<td>SubEntryConnected</td>
<td>22</td>
<td>The subentry within a multi-link connection has been connected.</td>
</tr>
<tr>
<td>SubEntryDisconnected</td>
<td>23</td>
<td>The subentry within a multi-link connection has been disconnected.</td>
</tr>
<tr>
<td>ApplySettings</td>
<td>24</td>
<td>The client is applying settings.</td>
</tr>
<tr>
<td>Interactive</td>
<td>4096</td>
<td>The client has entered an</td>
</tr>
</tbody>
</table>

**Windows 7 or later:** This value is supported.
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RetryAuthentication</td>
<td>4097  The client is starting to retry authentication.</td>
</tr>
<tr>
<td>CallbackSetByCaller</td>
<td>4098  The client has entered the callback state.</td>
</tr>
<tr>
<td>PasswordExpired</td>
<td>4099  The client password has expired.</td>
</tr>
<tr>
<td>InvokeEapUI</td>
<td>4100  The client has been paused to display a custom authentication user interface.</td>
</tr>
<tr>
<td>Connected</td>
<td>8192  The client has connected successfully.</td>
</tr>
<tr>
<td>Disconnected</td>
<td>8193  The client has disconnected or failed a connection attempt.</td>
</tr>
</tbody>
</table>
Remarks

Do not write code that depends on the order or occurrence of a particular connection state, because this can vary between platforms.
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents the current status of a remote access connection. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>[SerializableAttribute]</code></td>
<td><code>&lt;SerializableAttribute&gt;</code></td>
<td><code>[SerializableAttribute]</code></td>
<td><code>[&lt;SealedAttribute&gt;]</code></td>
</tr>
<tr>
<td><code>public sealed class RasConnectionStatus</code></td>
<td><code>Public NotInheritable Class RasConnectionStatus</code></td>
<td><code>public ref class RasConnectionStatus sealed</code></td>
<td><code>[&lt;SerializableAttribute&gt;]</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><code>type RasConnectionStatus = class end</code></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasConnectionStatus
See Also

RasConnectionStatus Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasConnectionStatus` type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
# Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionState</td>
<td>Gets the current connection state.</td>
</tr>
<tr>
<td>ConnectionSubState</td>
<td>Gets the state information of an Internet Key Exchange version 2 (IKEv2) virtual private network (VPN) tunnel.</td>
</tr>
<tr>
<td>Device</td>
<td>Gets the device through which the connection has been established.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred which caused a failed connection attempt.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets the error message for the ErrorCode that occurred.</td>
</tr>
<tr>
<td>LocalEndPoint</td>
<td>Gets the local client endpoint information of a virtual private network (VPN) tunnel.</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Gets the phone number dialed for this specific connection.</td>
</tr>
<tr>
<td>RemoteEndPoint</td>
<td>Gets the remote server endpoint information of a virtual private network (VPN) tunnel.</td>
</tr>
</tbody>
</table>
See Also

RasConnectionStatus Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionStatus Methods

The RasConnectionStatus type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com">Object</a> is equal to the current <a href="https://docs.microsoft.com">Object</a>. (Inherited from <a href="https://docs.microsoft.com">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasConnectionStatus Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasConnectionStatus** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionState</td>
<td>Gets the current connection state.</td>
</tr>
<tr>
<td>ConnectionSubState</td>
<td>Gets the state information of an Internet Key Exchange version 2 (IKEv2) virtual private network (VPN) tunnel.</td>
</tr>
<tr>
<td>Device</td>
<td>Gets the device through which the connection has been established.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred which caused a failed connection attempt.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets the error message for the ErrorCode that occurred.</td>
</tr>
<tr>
<td>LocalEndPoint</td>
<td>Gets the local client endpoint information of a virtual private network (VPN) tunnel.</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Gets the phone number dialed for this specific connection.</td>
</tr>
<tr>
<td>RemoteEndPoint</td>
<td>Gets the remote server endpoint information of a virtual private network (VPN) tunnel.</td>
</tr>
</tbody>
</table>
See Also

RasConnectionStatus Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the current connection state.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasConnectionState ConnectionState { get; }</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ConnectionState As RasConnectionState Get</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasConnectionState ConnectionState { RasConnectionState get (); }</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ConnectionState : RasConnectionState with get</code></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value
Type: [RasConnectionState](#)
See Also

RasConnectionStatus Class
RasConnectionStatus Members
DotRas Namespace
RasConnectionStatus.ConnectionSubState Property

Gets the state information of an Internet Key Exchange version 2 (IKEv2) virtual private network (VPN) tunnel.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasConnectionSubState ConnectionSubState { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Property ConnectionSubState As RasConnectionSubState
Get
```

#### Visual C++

```cpp
public:
property RasConnectionSubState ConnectionSubState { RasConnectionSubState get () ;
}
```

#### F#

```fsharp
member ConnectionSubState : RasConnectionSubState with
```

### Property Value

**Type:** [RasConnectionSubState](#)
See Also

RasConnectionStatus Class
RasConnectionStatus Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionStatus.Device Property

Gets the device through which the connection has been established.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasDevice Device { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property Device As RasDevice
Get
```

**Visual C++**

```cpp
public:
property RasDevice^ Device {
    RasDevice^ get ();
}
```

**F#**

```fsharp
member Device : RasDevice with get
```

### Property Value

Type: [RasDevice](#)
See Also

RasConnectionStatus Class
RasConnectionStatus Members
DotRas Namespace
Gets the error code (if any) that occurred which caused a failed connection attempt.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public int ErrorCode { get; }</code></td>
<td><code>Public ReadOnly Property ErrorCode As Integer Get</code></td>
<td><code>public: property int ErrorCode { int get (); }</code></td>
<td><code>member ErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

## Property Value

Type: [Int32](#)
See Also

RasConnectionStatus Class
RasConnectionStatus Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionStatus.ErrorMessage Property

Gets the error message for the ErrorCode that occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public string ErrorMessage { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property ErrorMessage As String
Get
```

**Visual C++**

```cpp
public:
property String^ ErrorMessage {
    String^ get ();
}
```

**F#**

```fsharp
member ErrorMessage : string with get
```

### Property Value

Type: `String`
See Also

- RasConnectionStatus Class
- RasConnectionStatus Members
- DotRas Namespace

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RasConnectionStatus.LocalEndPoint Property

Gets the local client endpoint information of a virtual private network (VPN) tunnel.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public IPAddress LocalEndPoint { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Readonly Property LocalEndPoint As IPAddress Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property IPAddress^ LocalEndPoint { IPAddress^ get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member LocalEndPoint : IPAddress with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: IPAddress
See Also

RasConnectionStatus Class
RasConnectionStatus Members
DotRas Namespace
RasConnectionStatus.PhoneNumber Property

Gets the phone number dialed for this specific connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string PhoneNumber { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property PhoneNumber As String Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property String^ PhoneNumber { String^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member PhoneNumber : string with get</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: [String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
See Also

RasConnectionStatus Class
RasConnectionStatus Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionStatus.RemoteEndPoint Property

Gets the remote server endpoint information of a virtual private network (VPN) tunnel.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public IPAddress RemoteEndPoint { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property RemoteEndPoint As IPAddress Get</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:
property IPAddress^ RemoteEndPoint { IPAddress^ get (); }
` |
| **F#**   | `member RemoteEndPoint : IPAddress with get` |

### Property Value

Type: `IPAddress`
See Also

RasConnectionStatus Class
RasConnectionStatus Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionSubState Enumeration

Defines the states for Internet Key Exchange version 2 (IKEv2) virtual private network (VPN) tunnel connections.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th></th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum RasConnectionSubState</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration RasConnectionSubState</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public enum class RasConnectionSubState</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>type RasConnectionSubState</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>The connection state does not have a sub-state.</td>
</tr>
<tr>
<td>Dormant</td>
<td>1</td>
<td>The underlying internet interface of the connection is down and the connection is waiting for an internet interface to come online.</td>
</tr>
<tr>
<td>Reconnecting</td>
<td>2</td>
<td>The internet interface has come online and the connection is switching over to this new interface.</td>
</tr>
<tr>
<td>Reconnected</td>
<td>8192</td>
<td>The connection has switched over successfully to the new internet interface.</td>
</tr>
</tbody>
</table>
Remarks

These states are not available to other tunneling protocols.
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionWatcher Class

Listens to the remote access service (RAS) change notifications and raises events when connections change. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public sealed class RasConnectionWatcher : RasComponent
    ISupportInitialize
``` |
| **Visual Basic** | ```
Public NotInheritable Class RasConnectionWatcher
    Inherits RasComponent
    Implements ISupportInitialize
``` |
| **Visual C++** | ```
public ref class RasConnectionWatcher sealed : public
    ISupportInitialize
``` |
| **F#** | ```
[<SealedAttribute>]
type RasConnectionWatcher =
    class
        inherit RasComponent
        interface ISupportInitialize
    end
``` |
Remarks

When using **RasConnectionWatcher** to monitor active connections for changes, ensure the SynchronizingObject property is set if thread synchronization is required. If this is not done, you may get cross-thread exceptions thrown from the component. This is typically needed with applications that have an interface; for example, Windows Forms or Windows Presentation Foundation (WPF).

The connected event raised by this component will be raised whenever a connection has connected on the machine. If a valid handle is provided to the **Handle** property, the other events will only receive notifications for that handle however the connected event will remain unchanged.
## Examples

The following example shows how to use a **RasConnectionWatcher** object to monitor connection changes on a machine.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasConnectionWatcher watcher = new RasConnectionWatcher;</td>
</tr>
<tr>
<td>public void Begin()</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>watcher.Connected += new EventHandler&lt;RasConnectionEventArgs&gt;(</td>
</tr>
<tr>
<td>watcher.Disconnected += new EventHandler&lt;RasConnectionEventArgs&gt;(</td>
</tr>
<tr>
<td>watcher.EnableRaisingEvents = true;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>private void watcher_Connected(object sender, RasConnectionEventArgs e)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>// A connection has successfully connected.</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>private void watcher_Disconnected(object sender, RasConnectionEventArgs e)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>// A connection has disconnected successfully.</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim watcher As New RasConnectionWatcher</td>
</tr>
<tr>
<td>Public Sub Begin()</td>
</tr>
<tr>
<td>AddHandler watcher.Connected, Me watcher_Connected</td>
</tr>
<tr>
<td>AddHandler watcher.Disconnected, Me watcher_Disconnected</td>
</tr>
<tr>
<td>watcher.EnableRaisingEvents = True</td>
</tr>
<tr>
<td>End Sub</td>
</tr>
<tr>
<td>Public Sub watcher_Connected(ByVal sender As Object,</td>
</tr>
<tr>
<td>' A connection has successfully connected.</td>
</tr>
<tr>
<td>End Sub</td>
</tr>
<tr>
<td>Public Sub watcher_Disconnected(ByVal sender As Object,</td>
</tr>
<tr>
<td>' A connection has disconnected successfully.</td>
</tr>
<tr>
<td>End Sub</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
System.ComponentModel.Component
DotRas.Design.RasComponent
DotRas.RasConnectionWatcher
See Also

RasConnectionWatcher Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasConnectionWatcher** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasConnectionWatcher()</td>
<td>Initializes a new instance of the <code>RasConnectionWatcher</code> class.</td>
</tr>
<tr>
<td>RasConnectionWatcher(IContainer)</td>
<td>Initializes a new instance of the <code>RasConnectionWatcher</code> class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>BeginInit</code></td>
<td>Begins the initialization of a <a href="#">RasConnectionWatcher</a> used on a form or other component.</td>
</tr>
<tr>
<td><code>CreateObjRef</code></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from <a href="#">MarshalByRefObject</a>.)</td>
</tr>
<tr>
<td><code>Dispose</code></td>
<td>Releases all resources used by the <a href="#">Component</a>. (Inherited from <a href="#">Component</a>.)</td>
</tr>
<tr>
<td><code>EndInit</code></td>
<td>Ends the initialization of a <a href="#">RasConnectionWatcher</a> used on a form or other component.</td>
</tr>
<tr>
<td><code>Equals</code></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><code>GetLifetimeService</code></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from <a href="#">MarshalByRefObject</a>.)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><code>InitializeLifetimeService</code></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from <a href="#">MarshalByRefObject</a>.)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a <a href="#">String</a> containing the name of the <a href="#">Component</a>, if any. This method should not be overridden.</td>
</tr>
<tr>
<td>(Inherited from Component.)</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Container</strong></td>
<td>Gets the <a href="#">IContainer</a> that contains the <a href="#">Component</a>. (Inherited from <a href="#">Component</a>.)</td>
</tr>
<tr>
<td><strong>EnableRaisingEvents</strong></td>
<td>Gets or sets a value indicating whether the component is enabled.</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td>Gets or sets the connection handle to watch.</td>
</tr>
<tr>
<td><strong>Site</strong></td>
<td>Gets or sets the <a href="#">ISite</a> of the <a href="#">Component</a>. (Inherited from <a href="#">Component</a>.)</td>
</tr>
<tr>
<td><strong>SynchronizingObject</strong></td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component. (Inherited from <a href="#">RasComponent</a>.)</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BandwidthAdded</td>
<td>Occurs when a remote access connection subentry has connected.</td>
</tr>
<tr>
<td>BandwidthRemoved</td>
<td>Occurs when a remote access connection subentry is disconnected.</td>
</tr>
<tr>
<td>Connected</td>
<td>Occurs when a remote access connection is established.</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Occurs when a remote access connection is disconnected.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the component has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>RasComponent</code>.)</td>
</tr>
</tbody>
</table>
See Also

- RasConnectionWatcher Class
- DotRas Namespace

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RasConnectionWatcher Constructor

RasConnectionWatcher Class See Also Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasConnectionWatcher()</td>
<td>Initializes a new instance of the RasConnectionWatcher class.</td>
</tr>
<tr>
<td>RasConnectionWatcher.IContainer</td>
<td>Initializes a new instance of the RasConnectionWatcher class.</td>
</tr>
</tbody>
</table>
See Also

- RasConnectionWatcher Class
- RasConnectionWatcher Members
- DotRas Namespace

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RasConnectionWatcher Constructor

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Initializes a new instance of the RasConnectionWatcher class.
## Syntax

**C#**

```csharp
public RasConnectionWatcher()
```

**Visual Basic**

```vbnet
Public Sub New
```

**Visual C++**

```cpp
public:
RasConnectionWatcher()
```

**F#**

```fsharp
new : unit -> RasConnectionWatcher
```
See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
RasConnectionWatcher Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionWatcher Constructor (IContainer)

Initializes a new instance of the RasConnectionWatcher class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasConnectionWatcher(IContainer container)</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub New (container As IContainer)</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: RasConnectionWatcher(IContainer^ container)</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>new : container : IContainer -&gt; RasConnectionWatcher</code></td>
</tr>
</tbody>
</table>

### Parameters

- **container**
  - Type: `System.ComponentModel.IContainer`
  - An `IContainer` that will contain the component.
See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
RasConnectionWatcher Overload
DotRas Namespace

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RasConnectionWatcher Methods

See Also
Send Feedback

The RasConnectionWatcher type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginInit</strong></td>
<td>Begins the initialization of a RasConnectionWatcher used on a form or other component.</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Dispose</strong></td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>EndInit</strong></td>
<td>Ends the initialization of a RasConnectionWatcher used on a form or other component.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden.</td>
</tr>
<tr>
<td>Inherited from Component.</td>
<td></td>
</tr>
</tbody>
</table>
See Also

RasConnectionWatcher Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Begins the initialization of a **RasConnectionWatcher** used on a form or other component.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public void BeginInit()</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub BeginInit</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: virtual void BeginInit() sealed</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>abstract BeginInit : unit -&gt; unit override BeginInit : unit -&gt; unit</code></td>
</tr>
</tbody>
</table>

### Implements

- `ISupportInitialize.BeginInit()`
See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
DotRas Namespace

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RasConnectionWatcher.EndInit Method

RasConnectionWatcher Class See Also Send Feedback

Ends the initialization of a RasConnectionWatcher used on a form or other component.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public voidEndInit()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub EndInit</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:
virtual void EndInit() sealed` |
| **F#**   | `abstract EndInit : unit -> unit
override EndInit : unit -> unit` |

### Implements

- [ISupportInitialize,EndInit()]
See Also

- RasConnectionWatcher Class
- RasConnectionWatcher Members
- DotRas Namespace

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The RasConnectionWatcher type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>Gets the <code>IContainer</code> that contains the <code>Component</code>. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>EnableRaisingEvents</td>
<td>Gets or sets a value indicating whether the component is enabled.</td>
</tr>
<tr>
<td>Handle</td>
<td>Gets or sets the connection handle to watch.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the <code>ISite</code> of the <code>Component</code>. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>SynchronizingObject</td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component. (Inherited from <code>RasComponent</code>.)</td>
</tr>
</tbody>
</table>


## See Also

[See Also](#) RasConnectionWatcher Class  
[See Also](#) DotRas Namespace

---

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the component is enabled.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**      | ```
public bool EnableRaisingEvents { get; set; }
``` |
| **Visual Basic** | ```
Public Property EnableRaisingEvents As Boolean
Get
Set
``` |
| **Visual C++** | ```
public:
property bool EnableRaisingEvents {
    bool get();
    void set (bool value);
}
``` |
| **F#**      | ```
member EnableRaisingEvents : bool with get, set
``` |

### Property Value

Type: [Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)


See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the connection handle to watch.

**Namespace:** [DotRas](#)  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasHandle Handle { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property Handle As RasHandle Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasHandle^ Handle { RasHandle^ get (); void set (RasHandle^ value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Handle : RasHandle with get, set</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [RasHandle](#)
See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
DotRas Namespace

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The `RasConnectionWatcher` type exposes the following members.
Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BandwidthAdded</td>
<td>Occurs when a remote access connection subentry has connected.</td>
</tr>
<tr>
<td>BandwidthRemoved</td>
<td>Occurs when a remote access connection subentry is disconnected.</td>
</tr>
<tr>
<td>Connected</td>
<td>Occurs when a remote access connection is established.</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Occurs when a remote access connection is disconnected.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Component.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the component has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasComponent.)</td>
</tr>
</tbody>
</table>
See Also

RasConnectionWatcher Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionWatcher.BandwidthAdded Event

RasConnectionWatcher Class See Also Send Feedback

Occurs when a remote access connection subentry has connected.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public event EventHandler&lt;EventArgs&gt; BandwidthAdded</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Event BandwidthAdded As EventHandler(Of EventArgs)</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: event EventHandler&lt;EventArgs^&gt;^ BandwidthAdded { void add (EventHandler&lt;EventArgs^&gt;^ value); void remove (EventHandler&lt;EventArgs^&gt;^ value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member BandwidthAdded : IEvent&lt;EventHandler&lt;EventArgs, EventArgs&gt;</td>
</tr>
</tbody>
</table>

### Value

Type: `System.EventHandler<EventArgs>`
See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
DotRas Namespace

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RasConnectionWatcher.BandwidthRemoved Event

Occurs when a remote access connection subentry is disconnected.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public event EventHandler<EventArgs> BandwidthRemoved;
```

### Visual Basic

```vbnet
Public Event BandwidthRemoved As EventHandler(Of EventArgs)
```

### Visual C++

```cpp
public:
  event EventHandler<EventArgs^>^ BandwidthRemoved {
    void add (EventHandler<EventArgs^>^ value);
    void remove (EventHandler<EventArgs^>^ value);
  }
```

### F#

```fsharp
member BandwidthRemoved : IEvent<EventHandler<EventArgs>>
```

## Value

Type: [System.EventHandler](https://docs.microsoft.com/en-us/dotnet/api/system.eventhandler)(EventArgs)
See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionWatcher.Connected Event

Occurs when a remote access connection is established.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public event EventHandler<RasConnectionEventArgs> Connected;
```

### Visual Basic

```vbnet
Public Event Connected As EventHandler(Of RasConnectionEventArgs)
```

### Visual C++

```cpp
public:
    event EventHandler<RasConnectionEventArgs^> Connected;
    void add (EventHandler<RasConnectionEventArgs^>);
    void remove (EventHandler<RasConnectionEventArgs^>);
}
```

### F#

```fsharp
member Connected : IEvent<EventHandler<RasConnectionEventArgs>^>
```

## Value

Type: `System.EventHandler<RasConnectionEventArgs>`
See Also

RasConnectionWatcher Class
RasConnectionWatcher Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasConnectionWatcher.Disconnected Event

Occurs when a remote access connection is disconnected.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public event EventHandler&lt;RasConnectionEventArgs&gt; Disconnected</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Event Disconnected As EventHandler(Of RasConnectionEventArgs)</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: event EventHandler&lt;RasConnectionEventArgs^&gt;^ Disconnected; void add (EventHandler&lt;RasConnectionEventArgs^&gt;); void remove (EventHandler&lt;RasConnectionEventArgs^&gt;);</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Disconnected : IEvent&lt;EventHandler&lt;RasConnectionEventArgs&gt;&gt;</code></td>
</tr>
</tbody>
</table>

### Value

Type: `System.EventHandler<RasConnectionEventArgs>`
See Also

- RasConnectionWatcher Class
- RasConnectionWatcher Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents country or region specific dialing information. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>[SerializableAttribute]</code> public sealed class RasCountry</td>
<td><code>&lt;SerializableAttribute&gt;</code> Public NotInheritable Class RasCountry</td>
<td><code>[SerializableAttribute]</code> public ref class RasCountry sealed</td>
<td><code>[&lt;SealedAttribute&gt;] [SerializableAttribute] type RasCountry = class end</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Examples

The following example shows how to retrieve all countries from the Windows Telephony list.

C#  

ReadOnlyCollection<RasCountry> countries = RasCountry.GetCountries();
foreach (RasCountry country in countries) {
    // Do something useful.
}

Visual Basic  

Dim countries As ReadOnlyCollection(Of RasCountry) = RasCountry.GetCountries();
For Each country As RasCountry in countries
    ' Do something useful.
Next
Inheritance Hierarchy

System.Object
DotRas.RasCountry
See Also

RasCountry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCountry** type exposes the following members.
**Methods**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>GetCountries</td>
<td>Retrieves country/region specific dialing information from the Windows Telephony list of countries/regions.</td>
</tr>
<tr>
<td>GetCountryById</td>
<td>Retrieves country/region specific dialing information from the Windows Telephony list of countries/regions for a specific country id.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a <a href="#">String</a> that represents the current <a href="#">RasCountry</a>. (Overrides <a href="#">Object.ToString()</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Gets the country or region code.</td>
</tr>
<tr>
<td>Id</td>
<td>Gets the TAPI identifier.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name.</td>
</tr>
</tbody>
</table>
See Also

RasCountry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCountry** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
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<tr>
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<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a <a href="#">String</a> that represents the current <a href="#">RasCountry</a>. (Overrides <a href="#">Object.ToString()</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasCountry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCountry.GetCountries Method

Retrieves country/region specific dialing information from the Windows Telephony list of countries/regions.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public static IReadOnlyCollection<RasCountry> GetCountries();
```

**Visual Basic**

```vbnet
Public Shared Function GetCountries As ReadOnlyCollection()
```

**Visual C++**

```cpp
public:
static IReadOnlyCollection<RasCountry^>^ GetCountries();
```

**F#**

```
static member GetCountries : unit -> ReadOnlyCollection:
```

### Return Value

Type: `ReadOnlyCollection(RasCountry)`

A collection of `RasCountry` objects.
See Also

RasCountry Class
RasCountry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Retrieves country/region specific dialing information from the Windows Telephony list of countries/regions for a specific country id.

**Namespace:** [DotRas](#)  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public static RasCountry GetCountryById( int countryId )</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Shared Function GetCountryById ( countryId As Integer ) As RasCountry</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: static RasCountry^ GetCountryById( int countryId )</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>static member GetCountryById : countryId : int -&gt; RasCountry</code></td>
</tr>
</tbody>
</table>

### Parameters

*countryId*
Type: [System.Int32](#)
The country id to retrieve.

### Return Value

Type: [RasCountry](#)
A new [RasCountry](#) object.
See Also

RasCountry Class
RasCountry Members
DotRas Namespace

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RasCountry.ToString Method

Returns a String that represents the current RasCountry.

Namespace: DotRas

Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public override string ToString()
```

### Visual Basic

```vbnet
Public Overrides Function ToString As String
```

### Visual C++

```cpp
public:
virtual String^ ToString() override
```

### F#

```fsharp
abstract ToString : unit -> string
override ToString : unit -> string
```

## Return Value

Type: `String`

A `String` that represents the current `RasCountry`.
See Also

RasCountry Class
RasCountry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCountry** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Gets the country or region code.</td>
</tr>
<tr>
<td>Id</td>
<td>Gets the TAPI identifier.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name.</td>
</tr>
</tbody>
</table>
See Also

RasCountry Class
DotRas Namespace
RasCountry.Code Property

Gets the country or region code.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int Code { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Code As Integer Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int Code { int get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Code : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
See Also

RasCountry Class
RasCountry Members
DotRas Namespace
Gets the TAPI identifier.

**Namespace:** [DotRas](https://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public int Id { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property Id As Integer Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property int Id {</td>
</tr>
<tr>
<td></td>
<td>int get ();</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member Id : int with get</td>
</tr>
</tbody>
</table>

## Property Value

Type: Int32
See Also

- RasCountry Class
- RasCountry Members
- DotRas Namespace
RasCountry.Name Property

Gets the name.

**Namespace:** [DotRas](https://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public string Name { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property Name As String
    Get
```

**Visual C++**

```cpp
public:
    property String^ Name {
        String^ get ();
    }
```

**F#**

```fsharp
member Name : string with get
```

### Property Value

Type: *String*
See Also

RasCountry Class
RasCountry Members
DotRas Namespace

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RasDevice Class

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Represents a TAPI device capable of establishing a remote access connection. This class cannot be inherited.
<table>
<thead>
<tr>
<th><strong>Syntax</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
</tbody>
</table>
| `[SerializableAttribute]`  
`public sealed class RasDevice` |
| **Visual Basic** |
| `<SerializableAttribute>`  
`Public NotInheritable Class RasDevice` |
| **Visual C++** |
| `[SerializableAttribute]`  
`public ref class RasDevice sealed` |
| **F#** |
| `[@<SealedAttribute>]`  
`[@<SerializableAttribute>]`  
`type RasDevice = class end` |
### Examples

The following example shows how to update the device used by a phone book entry.

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>using (RasPhoneBook pbk = new RasPhoneBook()) {</td>
<td>Dim pbk As RasPhoneBook</td>
</tr>
<tr>
<td>pbk.Open();</td>
<td>Try</td>
</tr>
<tr>
<td>RasEntry entry = pbk.Entries[&quot;VPN Connection&quot;];</td>
<td>pbk = New RasPhoneBook</td>
</tr>
<tr>
<td>if (entry != null) {</td>
<td>pbk.Open()</td>
</tr>
<tr>
<td>entry.Device = RasDevice.GetDeviceByName(&quot;(PPTP)&quot;;</td>
<td>Dim entry As RasEntry = pbk.Entries(&quot;VPN Connection&quot;);</td>
</tr>
<tr>
<td>entry.Update();</td>
<td>If (entry IsNot Nothing) Then</td>
</tr>
<tr>
<td>}</td>
<td>entry.Device = RasDevice.GetDeviceByName(&quot;(PPTP)&quot;;</td>
</tr>
<tr>
<td></td>
<td>entry.Update();</td>
</tr>
<tr>
<td></td>
<td>End If</td>
</tr>
<tr>
<td></td>
<td>Finally</td>
</tr>
<tr>
<td></td>
<td>If (pbk IsNot Nothing) Then</td>
</tr>
<tr>
<td></td>
<td>pbk.Dispose();</td>
</tr>
<tr>
<td></td>
<td>End If</td>
</tr>
<tr>
<td></td>
<td>End Try</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

- System.Object
- DotRas.RasDevice
See Also

RasDevice Members
DotRas Namespace
The **RasDevice** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create</td>
<td>Creates a new device. WARNING: This method does not guarantee the hardware will be installed.</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetDeviceByName(String, RasDeviceType)</td>
<td>Obsolete. Returns the first device matching the name and device type specified.</td>
</tr>
<tr>
<td>GetDeviceByName(String, RasDeviceType, Boolean)</td>
<td>Obsolete. Returns the first device matching the name and device type specified.</td>
</tr>
<tr>
<td>GetDevices</td>
<td>Lists all available remote access capable devices.</td>
</tr>
<tr>
<td>GetDevicesByType</td>
<td>Obsolete. Lists all remote access capable devices for the specified device type.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeviceType</td>
<td>Gets the type of the device.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the device.</td>
</tr>
</tbody>
</table>
See Also

RasDevice Class
DotRas Namespace

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RasDevice Methods

The RasDevice type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>Create</td>
<td>Creates a new device. WARNING: This method does not guarantee the hardware will be installed.</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetDeviceByName(String, RasDeviceType)</td>
<td>Obsolete. Returns the first device matching the name and device type specified.</td>
</tr>
<tr>
<td>GetDeviceByName(String, RasDeviceType, Boolean)</td>
<td>Obsolete. Returns the first device matching the name and device type specified.</td>
</tr>
<tr>
<td>GetDevices</td>
<td>Lists all available remote access capable devices.</td>
</tr>
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</tr>
<tr>
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<tr>
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</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
See Also

RasDevice Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDevice.Create Method

Creates a new device. WARNING: This method does not guarantee the hardware will be installed.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public static RasDevice Create(
    string name,
    RasDeviceType deviceType
)
``` |
| Visual Basic | ```
Public Shared Function Create ( 
    name As String,
    deviceType As RasDeviceType
) As RasDevice 
``` |
| Visual C++  | ```
public:
    static RasDevice^ Create(
        String^ name,
        RasDeviceType deviceType
    )
``` |
| F#         | ```
static member Create :
    name : string *
    deviceType : RasDeviceType -> RasDevice
``` |

### Parameters

- **name**
  
  Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

  Required. The name of the device.

- **deviceType**
Type: `DotRas.RasDeviceType`
Required. The `RasDeviceType` indicating the type of device.

**Return Value**
Type: `RasDevice`
A new `RasDevice` object.
Remarks

This method essentially creates hardware on machines that may not exist and is exposed due to problems when hardware is installed and not recognized immediately by the remote access service. Using this method does not guarantee the hardware will be installed and may cause the machine to crash when the entry is dialed.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>deviceType</code> is an empty string or null reference <em>(Nothing in Visual Basic)</em>.</td>
</tr>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>name</code> is a null reference <em>(Nothing in Visual Basic)</em>.</td>
</tr>
</tbody>
</table>
See Also

RasDevice Class
RasDevice Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDevice.GetDeviceByName Method

RasDevice Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetDeviceByName(String, RasDeviceType)</td>
<td>Obsolete. Returns the first device matching the name and device type specified.</td>
</tr>
<tr>
<td>GetDeviceByName(String, RasDeviceType, Boolean)</td>
<td>Obsolete. Returns the first device matching the name and device type specified.</td>
</tr>
</tbody>
</table>
See Also

RasDevice Class
RasDevice Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDevice.GetDeviceByName Method (String, RasDeviceType)

Returns the first device matching the name and device type specified.

**Namespace:** [DotRas](https://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**        | `[ObsoleteAttribute("This method will be removed in a future version,
false)]
public static RasDevice GetDeviceByName(  
    string name,  
    RasDeviceType deviceType  
) |
| **Visual Basic** | `<ObsoleteAttribute("This method will be removed in a future version,
false)>
Public Shared Function GetDeviceByName (  
    name As String,  
    deviceType As RasDeviceType  
) As RasDevice` |
| **Visual C++** | `public:  
[ObsoleteAttribute(L"This method will be removed in a future version,
false)]
static RasDevice^ GetDeviceByName(  
    String^ name,  
    RasDeviceType deviceType  
)` |
| **F#**        | `[<ObsoleteAttribute("This method will be removed in a future version,
false)>]
static member GetDeviceByName :  
    name : string *  
    deviceType : RasDeviceType -> RasDevice` |
Parameters

name
Type: System.String
The name of the device to retrieve.

deviceType
Type: DotRas.RasDeviceType
The RasDeviceType of the device to retrieve.

Return Value
Type: RasDevice
The RasDevice if available, otherwise a null reference (Nothing in Visual Basic).
See Also

RasDevice Class
RasDevice Members
GetDeviceByName Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDevice.GetDeviceByName Method (String, RasDeviceType, Boolean)

Returns the first device matching the name and device type specified.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | `[ObsoleteAttribute("This method will be removed in a future version, please use the GetDevices method to find the devices.")]

```csharp
public static RasDevice GetDeviceByName(  
    string name,  
    RasDeviceType deviceType,  
    bool exactMatchOnly  
)
```

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
<th>Code</th>
</tr>
</thead>
</table>
| `<ObsoleteAttribute("This method will be removed in a future version, please use the GetDevices method to find the devices.")>`

```vbnet
Public Shared Function GetDeviceByName (  
    name As String,  
    deviceType As RasDeviceType,  
    exactMatchOnly As Boolean  
) As RasDevice
```

<table>
<thead>
<tr>
<th><strong>Visual C++</strong></th>
<th>Code</th>
</tr>
</thead>
</table>
| `public:
  [ObsoleteAttribute(L"This method will be removed in a future version, please use the GetDevices method to find the devices.")]

```cpp
static RasDevice^ GetDeviceByName(  
    String^ name,  
    RasDeviceType deviceType,  
    bool exactMatchOnly  
)
```

<table>
<thead>
<tr>
<th><strong>F#</strong></th>
<th>Code</th>
</tr>
</thead>
</table>
| `[<ObsoleteAttribute("This method will be removed in a future version, please use the GetDevices method to find the devices.")>]`
static member GetDeviceByName :
    name : string *
    deviceType : RasDeviceType *
    exactMatchOnly : bool -> RasDevice

**Parameters**

*name*
Type: `System.String`
The name (or partial name) of the device to retrieve.

*deviceType*
Type: `DotRas.RasDeviceType`
The `RasDeviceType` of the device to retrieve.

*exactMatchOnly*
Type: `System.Boolean`
`true` if the *name* should be matched exactly; `false` to allow partial matching.

**Return Value**
Type: `RasDevice`
The `RasDevice` if available, otherwise a null reference (`Nothing` in Visual Basic).
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>deviceType</code> is an empty string or null reference (<code>Nothing</code> in Visual Basic).</td>
</tr>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>name</code> is a null reference (<code>Nothing</code> in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasDevice Class
RasDevice Members
GetDeviceByName Overload
DotRas Namespace

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RasDevice.GetDevices Method

Lists all available remote access capable devices.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public static ReadOnlyCollection<RasDevice> GetDevices()
```

**Visual Basic**

```vbnet
Public Shared Function GetDevices As ReadOnlyCollection()
```

**Visual C++**

```cpp
public:
static ReadOnlyCollection<RasDevice>^ GetDevices()
```

**F#**

```fsharp
static member GetDevices : unit -> ReadOnlyCollection
```

### Return Value

Type: `ReadOnlyCollection<RasDevice>`

A new read-only collection of RasDevice objects.
See Also

RasDevice Class
RasDevice Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Lists all remote access capable devices for the specified device type.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**    | `[ObsoleteAttribute("This method will be removed in a future version, please use the GetDevices method to find the devices.", false)]
  public static ReadOnlyCollection<RasDevice> GetDevices(RasDeviceType deviceType) |
| **Visual Basic** | `<ObsoleteAttribute("This method will be removed in a future version, please use the GetDevices method to find the devices.", false)>
  Public Shared Function GetDevicesByType (deviceType As RasDeviceType) As ReadOnlyCollection(Of RasDevice)` |
| **Visual C++** | `public:
  [ObsoleteAttribute(L"This method will be removed in a future version, please use the GetDevices method to find the devices.", false)]
  static ReadOnlyCollection<RasDevice^>^ GetDevicesByType(RasDeviceType deviceType)` |
| **F#**     | `[<ObsoleteAttribute("This method will be removed in a future version, please use the GetDevices method to find the devices.", false)>]
  static member GetDevicesByType : deviceType : RasDeviceType -> ReadOnlyCollect...` |

### Parameters

- `deviceType`
Type: `DotRas.RasDeviceType`
The `RasDeviceType` of the device(s) to retrieve.

**Return Value**

Type: `ReadOnlyCollection(RasDevice)`
A new read-only collection of `RasDevice` objects, or an empty collection if no devices were found.
See Also

RasDevice Class
RasDevice Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasDevice** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DeviceType</code></td>
<td>Gets the type of the device.</td>
</tr>
<tr>
<td><code>Name</code></td>
<td>Gets the name of the device.</td>
</tr>
</tbody>
</table>
See Also

RasDevice Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDevice.DeviceType Property

Gets the type of the device.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasDeviceType DeviceType { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property DeviceType As RasDeviceType Get</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:
property RasDeviceType DeviceType { RasDeviceType get ();
}       `                                 |
| **F#**     | `member DeviceType : RasDeviceType with get`                         |

### Property Value

Type: [RasDeviceType](#)
Remarks

See RasDeviceType for possible values.
See Also

RasDevice Class
RasDevice Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDevice.Name Property

Gets the name of the device.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string Name { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Name As String Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property String^ Name { String^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Name : string with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](#)
Remarks

All or parts of this value may change depending on the language pack used by the operating system. For example, the "WAN Miniport (L2TP)" device can read "Minipuerto WAN (L2TP)" on machines using a Spanish language pack.
See Also

- RasDevice Class
- RasDevice Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceType Enumeration

Defines the remote access service (RAS) device types.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#** | `[TypeConverterAttribute(typeof(RasDeviceTypeConverter))]

    public enum RasDeviceType |
| **Visual Basic** | `<TypeConverterAttribute(GetType(RasDeviceTypeConverter))

    Public Enumeration RasDeviceType |
| **Visual C++** | `[TypeConverterAttribute(typeof(RasDeviceTypeConverter))]

    public enum class RasDeviceType |
| **F#** | `<<TypeConverterAttribute(typeof(RasDeviceTypeConverter))

    type RasDeviceType |
<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modem</td>
<td>0</td>
<td>A modem accessed through a COM port.</td>
</tr>
<tr>
<td>Isdn</td>
<td>1</td>
<td>An ISDN card with a corresponding NDISWAN driver installed.</td>
</tr>
<tr>
<td>X25</td>
<td>2</td>
<td>An X.25 card with a corresponding NDISWAN driver installed.</td>
</tr>
<tr>
<td>Vpn</td>
<td>3</td>
<td>A virtual private network connection.</td>
</tr>
<tr>
<td>Pad</td>
<td>4</td>
<td>A packet assembler/disassembler.</td>
</tr>
<tr>
<td>Generic</td>
<td>5</td>
<td>Generic device type.</td>
</tr>
<tr>
<td>Serial</td>
<td>6</td>
<td>Direct serial connection through a serial port.</td>
</tr>
<tr>
<td>FrameRelay</td>
<td>7</td>
<td>Frame Relay.</td>
</tr>
<tr>
<td>Atm</td>
<td>8</td>
<td>Asynchronous Transfer Mode (ATM).</td>
</tr>
<tr>
<td>Sonet</td>
<td>9</td>
<td>Sonet device type.</td>
</tr>
<tr>
<td>SW56</td>
<td>10</td>
<td>Switched 56K access.</td>
</tr>
<tr>
<td>Irda</td>
<td>11</td>
<td>An Infrared Data Association (IrDA) compliant device.</td>
</tr>
<tr>
<td>Parallel</td>
<td>12</td>
<td>Direct parallel connection through a parallel port.</td>
</tr>
<tr>
<td>PPPoE</td>
<td>13</td>
<td>Point-to-Point Protocol over Ethernet.</td>
</tr>
</tbody>
</table>

**Windows XP or later:** This value is supported.
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter Class

Provides a converter for RasDeviceType. This class cannot be inherited.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>public sealed class RasDeviceTypeConverter : TypeConverter</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>Public NotInheritable Class RasDeviceTypeConverter Inherits TypeConverter</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>public ref class RasDeviceTypeConverter sealed : public</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
</tbody>
</table>
|           | `[<SealedAttribute>] type RasDeviceTypeConverter = class
|           | inherit TypeConverter
|           | end` |
Inheritance Hierarchy

System.Object
System.ComponentModel.TypeConverter
DotRas.RasDeviceTypeConverter
See Also

RasDeviceTypeConverter Members
DotRas Namespace

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RasDeviceTypeConverter Members

The RasDeviceTypeConverter type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDeviceTypeConverter</td>
<td>Initializes a new instance of the RasDeviceTypeConverter class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CanConvertFrom(Type)</strong></td>
<td>Returns whether this converter can convert an object of the given type to the type of this converter. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td><strong>CanConvertFrom(ITypeDescriptorContext, Type)</strong></td>
<td>Returns whether this converter can convert an object of the given type to the type of this converter. (Overrides TypeConverter.CanConvertFrom(ITypeDescriptorContext, Type).)</td>
</tr>
<tr>
<td><strong>CanConvertTo(Type)</strong></td>
<td>Returns whether this converter can convert the object to the specified type. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td><strong>CanConvertTo(ITypeDescriptorContext, Type)</strong></td>
<td>Returns whether this converter can convert the object to the specified type, using the specified context. (Overrides TypeConverter.CanConvertTo(ITypeDescriptorContext, Type).)</td>
</tr>
<tr>
<td><strong>ConvertFrom(Object)</strong></td>
<td>Converts the given value to the type of this converter. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td><strong>ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</strong></td>
<td>Converts the given value to the type of this converter. (Overrides TypeConverter.ConvertFrom(ITypeDescriptorContext, CultureInfo, Object).)</td>
</tr>
<tr>
<td><strong>ConvertFromInvariantString(String)</strong></td>
<td>Converts the given string to the type of this converter, using the invariant culture. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td><strong>ConvertFromInvariantString(ITypeDescriptorContext, String)</strong></td>
<td>Converts the given string to the type of this converter, using the invariant culture and the specified context. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td><strong>ConvertFromString(String)</strong></td>
<td>Converts the specified text to an object. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td><strong>ConvertFromString(ITypeDescriptorContext, String)</strong></td>
<td>Converts the given text to an object, using the specified context. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>ConvertFromString(ITypeDescriptorContext, CultureInfo, String)</strong></td>
<td>Converts the given text to an object, using the specified context and culture information. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>ConvertTo(Object, Type)</strong></td>
<td>Converts the given value object to the specified type, using the arguments. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</strong></td>
<td>Converts the given value object to the specified type, using the arguments. (Overrides <code>TypeConverter.ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</code>)</td>
</tr>
<tr>
<td><strong>ConvertToInvariantString(Object)</strong></td>
<td>Converts the specified value to a culture-invariant string representation. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>ConvertToInvariantString(ITypeDescriptorContext, Object)</strong></td>
<td>Converts the specified value to a culture-invariant string representation, using the specified context. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>ConvertToString(Object)</strong></td>
<td>Converts the specified value to a string representation. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>ConvertToString(ITypeDescriptorContext, Object)</strong></td>
<td>Converts the given value to a string representation, using the given context. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>ConvertToString(ITypeDescriptorContext, CultureInfo, Object)</strong></td>
<td>Converts the given value to a string representation, using the specified context and culture information. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>CreateInstance(IDictionary)</strong></td>
<td>Re-creates an <code>Object</code> object. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>CreateInstance(ITypeDescriptorContext, IDictionary)</strong></td>
<td>Creates an instance associated with, using property values for the specified context. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the current <code>Object</code> is equal to the specified object. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><strong>GetCreateInstanceSupported()</strong></td>
<td>Returns whether creating a new object is supported.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>GetCreateInstanceSupported(ITypeDescriptorContext)</td>
<td>Returns whether changes to this object require a call to CreateInstance(IDictionary) using the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for the particular type. (Inherited from Object)</td>
</tr>
<tr>
<td>GetProperties(Object)</td>
<td>Returns a collection of properties for the value specified by the value parameter. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object)</td>
<td>Returns a collection of properties for the type of array specified by the value parameter, using the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object, Attribute[])</td>
<td>Returns a collection of properties for the type of array specified by the value parameter, using the specified context and attributes. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetPropertiesSupported()</td>
<td>Returns whether this object supports properties. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetPropertiesSupported(ITypeDescriptorContext)</td>
<td>Returns whether this object supports properties, using the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetStandardValues()</td>
<td>Returns a collection of standard values from the default context for the data type this type converter is designed for. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetStandardValues(ITypeDescriptorContext)</td>
<td>Returns a collection of standard values for the data type this type converter is designed for when provided with a format context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetStandardValuesExclusive()</td>
<td>Returns whether the value from GetStandardValues has been filtered. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GetStandardValuesExclusive(ITypeDescriptorContext)</td>
<td>Returns whether the collection of standard values returned from GetStandardValues, using the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetStandardValuesSupported()</td>
<td>Returns whether the object supports a standard set of values that can be picked from a list. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetStandardValuesSupported(ITypeDescriptorContext)</td>
<td>Returns whether the object supports a standard set of values that can be picked from a list, using the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object)</td>
</tr>
<tr>
<td>IsValid(Object)</td>
<td>Returns whether the given value object is valid for this type. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>IsValid(ITypeDescriptorContext, Object)</td>
<td>Returns whether the value object is valid for this type and for the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

RasDeviceTypeConverter Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter Constructor

Initializes a new instance of the RasDeviceTypeConverter class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public RasDeviceTypeConverter()</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Sub New</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: RasDeviceTypeConverter()</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>new : unit -&gt; RasDeviceTypeConverter</td>
<td></td>
</tr>
</tbody>
</table>
See Also

- RasDeviceTypeConverter Class
- RasDeviceTypeConverter Members
- DotRas Namespace
The `RasDeviceTypeConverter` type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanConvertFrom(Type)</td>
<td>Returns whether the given type to the type of this converter. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>CanConvertFrom(ITypeDescriptorContext, Type)</td>
<td>Returns whether the given type to the type of this converter. (Overridden in this class.)</td>
</tr>
<tr>
<td>CanConvertTo(Type)</td>
<td>Returns whether the specified type. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>CanConvertTo(ITypeDescriptorContext, Type)</td>
<td>Returns whether the specified type. (Overridden in this class.)</td>
</tr>
<tr>
<td>ConvertFrom(Object)</td>
<td>Converts the given value to the type of this converter. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</td>
<td>Converts the given value to the type of this converter. (Overridden in this class.)</td>
</tr>
<tr>
<td>ConvertFromInvariantString(String)</td>
<td>Converts the given string to the type of this converter, using the invariant culture. (Inherited from TypeConverter.)</td>
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<td>ConvertFromInvariantString(ITypeDescriptorContext, String)</td>
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<td>ConvertFromString(String)</td>
<td>Converts the specified text to an object. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>ConvertFromString(ITypeDescriptorContext, String)</td>
<td>Converts the specified text to an object, using the specified context. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
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<td>--------</td>
<td>-------------</td>
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<tr>
<td><code>ConvertFromString(ITypeDescriptorContext, CultureInfo, String)</code></td>
<td>Converts the given text to an object, using the specified context and culture information. (Inherited from <code>Ty</code>)</td>
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<td><code>ConvertTo(Object, Type)</code></td>
<td>Converts the given value object to the specified type, using the arguments. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><code>ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</code></td>
<td>Converts the given value object to the specified type, using the arguments. (Overrides <code>TypeConverter.ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</code>)</td>
</tr>
<tr>
<td><code>ConvertToInvariantString(Object)</code></td>
<td>Converts the specified value to a culture-invariant string representation. (Inherited from <code>Ty</code>)</td>
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<tr>
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<td>Converts the specified value to a string representation. (Inherited from <code>Ty</code>)</td>
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<tr>
<td><code>ConvertToString(ITypeDescriptorContext, Object)</code></td>
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<tr>
<td><code>ConvertToString(ITypeDescriptorContext, CultureInfo, Object)</code></td>
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</tr>
<tr>
<td><code>CreateInstance(IDictionary)</code></td>
<td>Re-creates an <code>Object</code> object. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><code>CreateInstance(ITypeDescriptorContext, IDictionary)</code></td>
<td>Creates an instance of the type that this associated with, using property values for the object. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><code>Equals</code></td>
<td>Determines whether the current <code>Object</code> is equal to the specified object. (Inherited from <code>Ty</code>)</td>
</tr>
<tr>
<td><code>GetCreateInstanceSupported()</code></td>
<td>Returns whether creating a new instance is supported.</td>
</tr>
</tbody>
</table>
GetCreateInstanceSupported(ITypeDescriptorContext)

- Returns whether a call to CreateInstance(IDictionary) using the specified context is required to create a new value.

GetHashCode

- Serves as a hash function for a particular type.

GetProperties(Object)

- Returns a collection of properties for the specified value.

GetProperties(ITypeDescriptorContext, Object, Attribute[])

- Returns a collection of properties for the specified value, using the specified context and attributes.

GetPropertiesSupported()

- Returns whether this object supports properties.

GetPropertiesSupported(ITypeDescriptorContext)

- Returns whether this object supports properties, using the specified context.

GetStandardValues()

- Returns a collection of standard values from the default context for the data type this type converter is designed for.

GetStandardValues(ITypeDescriptorContext)

- Returns a collection of standard values from this type converter, using the specified context.

GetStandardValuesExclusive()

- Returns whether the collection of standard values returned from GetStandardValues is exclusive.
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GetStandardValuesExclusive(ITypeDescriptorContext)</code></td>
<td>Returns whether the collection of standard values returned from <code>GetStandardValues</code>, using the specified context. (Inherited from <code>TypeConverter</code>)</td>
</tr>
<tr>
<td><code>GetStandardValuesSupported()</code></td>
<td>Returns whether this object supports a standard set of values that can be picked from a list. (Inherited from <code>TypeConverter</code>)</td>
</tr>
<tr>
<td><code>GetStandardValuesSupported(ITypeDescriptorContext)</code></td>
<td>Returns whether this object supports a standard set of values that can be picked from a list, using the specified context. (Inherited from <code>TypeConverter</code>)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>IsValid(Object)</code></td>
<td>Returns whether the given value object is valid for this type. (Inherited from <code>TypeConverter</code>)</td>
</tr>
<tr>
<td><code>IsValid(ITypeDescriptorContext, Object)</code></td>
<td>Returns whether the given value object is valid for this type and for the specified context. (Inherited from <code>TypeConverter</code>)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>


See Also

RasDeviceTypeConverter Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter.CanConvertFrom Method

See Also
Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Type" alt="CanConvertFrom" /></td>
<td>Returns whether this converter can convert the given type to the type of this converter. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>![CanConvertFrom](ITypeDescriptorContext, Type)</td>
<td>Returns whether this converter can convert the given type to the type of this converter. (Overrides TypeConverter.CanConvertFrom(Type).)</td>
</tr>
</tbody>
</table>
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter.CanConvertFrom Method
(ITypeDescriptorContext, Type)

RasDeviceTypeConverter Class  See Also  Send Feedback

Returns whether this converter can convert an object of the given type to the type of this converter.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

### C#

```csharp
public override bool CanConvertFrom(
    ITypeDescriptorContext context,
    Type sourceType
)
```

### Visual Basic

```vbnet
Public Overrides Function CanConvertFrom (context As ITypeDescriptorContext, sourceType As Type) As Boolean
```

### Visual C++

```cpp
public:
    virtual bool CanConvertFrom(
        ITypeDescriptorContext^ context,
        Type^ sourceType
    ) override
```

### F#

```fsharp
abstract CanConvertFrom : 
    context : ITypeDescriptorContext * 
    sourceType : Type -> bool 
override CanConvertFrom : 
    context : ITypeDescriptorContext * 
    sourceType : Type -> bool
```

**Parameters**

`context`  
Type: `System.ComponentModel.ITypeDescriptorContext`
An `ITypeDescriptorContext` that provides a format context.

[sourceType]
Type: `System.Type`  
A `Type` that represents the type you want to convert from.

**Return Value**
Type: `Boolean`  
`true` if this converter can perform the conversion, otherwise `false`. 
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
CanConvertFrom Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter.CanConvertTo Method

See Also
Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanConvertTo(Type)</td>
<td>Returns whether this converter can convert the object to the specified type. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>CanConvertTo(ITypeDescriptorContext, Type)</td>
<td>Returns whether this converter can convert the object to the specified type, using the specified context. (Overrides TypeConverter.CanConvertTo(IType).)</td>
</tr>
</tbody>
</table>
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter.CanConvertTo Method
(ITypeDescriptorContext, Type)

RasDeviceTypeConverter Class  See Also  Send Feedback

Returns whether this converter can convert the object to the specified type, using the specified context.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
</tbody>
</table>
|  | public override bool CanConvertTo(
|  |     ITypeDescriptorContext context,
|  |     Type destinationType
|  | )  |
| **Visual Basic**  |  |
|  | Public Overrides Function CanConvertTo (  |
|  |     context As ITypeDescriptorContext,  |
|  |     destinationType As Type  |
|  | ) As Boolean  |
| **Visual C++**  |  |
|  | public:  |
|  | virtual bool CanConvertTo(  |
|  |     ITypeDescriptorContext^ context,  |
|  |     Type^ destinationType  |
|  | ) override  |
| **F#**  |  |
|  | abstract CanConvertTo :  |
|  |     context : ITypeDescriptorContext *  |
|  |     destinationType : Type -> bool  |
|  | override CanConvertTo :  |
|  |     context : ITypeDescriptorContext *  |
|  |     destinationType : Type -> bool  |

### Parameters

- **context**
  - Type: `System.ComponentModel.ITypeDescriptorContext`
An `ITypeDescriptorContext` that provides a format context.

`destinationType`
Type: `System.Type`
A `Type` that represents the type you want to convert to.

**Return Value**
Type: `Boolean`
`true` if this converter can perform the conversion, otherwise `false`. 
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
CanConvertTo Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter.ConvertFrom Method

RasDeviceTypeConverter Class  See Also  Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Object" alt="ConvertFrom" /></td>
<td>Converts the given value to the type (Inherited from <a href="#">TypeConverter</a>).</td>
</tr>
<tr>
<td>![ConvertFrom](ITypeDescriptorContext, CultureInfo, Object)</td>
<td>Converts the given value to the type (Overrides <a href="#">TypeConverter.ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Converts the given value to the type of this converter.

**Namespace:** [DotRas](http://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public override Object ConvertFrom(
    ITypeDescriptorContext context,
    CultureInfo culture,
    Object value
)
```

**Visual Basic**

```vbnet
Public Overrides Function ConvertFrom (    context As ITypeDescriptorContext,    culture As CultureInfo,    value As Object    ) As Object
```

**Visual C++**

```cpp
public:
virtual Object^ ConvertFrom(
    ITypeDescriptorContext^ context,    CultureInfo^ culture,    Object^ value
) override
```

**F#**

```fsharp
abstract ConvertFrom :    context : ITypeDescriptorContext *
    culture : CultureInfo *
    value : Object -> Object
override ConvertFrom :    context : ITypeDescriptorContext *
    culture : CultureInfo *
    value : Object -> Object
```
Parameters

context
Type: System.ComponentModel.ITypeDescriptorContext
An ITypeDescriptorContext that provides a format context.

culture
Type: System.Globalization.CultureInfo
The CultureInfo to use as the current culture.

value
Type: System.Object
The object to convert.

Return Value

Type: Object
An object that represents the converted value.
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
ConvertFrom Overload
DotRas Namespace
RasDeviceTypeConverter.ConvertTo Method

RasDeviceTypeConverter Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConvertTo(Object, Type)</td>
<td>Converts the given value object to the specified type, using the arguments. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</td>
<td>Converts the given value object to the specified type, using the arguments. (Overides TypeConverter.ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type).)</td>
</tr>
</tbody>
</table>
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDeviceTypeConverter.ConvertTo Method (ITypeDescriptorContext, CultureInfo, Object, Type)

Converts the given value object to the specified type, using the arguments.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Codeacciun</th>
</tr>
</thead>
</table>
| **C#**       | public override Object ConvertTo(  
|              |   ITypeDescriptorContext context,  
|              |   CultureInfo culture,  
|              |   Object value,  
|              |   Type destinationType  
|              | ) |
| **Visual Basic** | Public Overrides Function ConvertTo (  
|               |   context As ITypeDescriptorContext,  
|               |   culture As CultureInfo,  
|               |   value As Object,  
|               |   destinationType As Type  
|               | ) As Object |
| **Visual C++** | public:  
|              |   virtual Object^ ConvertTo(  
|              |     ITypeDescriptorContext^ context,  
|              |     CultureInfo^ culture,  
|              |     Object^ value,  
|              |     Type^ destinationType  
|              | ) override |
| **F#**       | abstract ConvertTo:  
|              |   context : ITypeDescriptorContext *  
|              |   culture : CultureInfo *  
|              |   value : Object *  
|              |   destinationType : Type -> Object |
**Parameters**

*context*
Type: `System.ComponentModel.ITypeDescriptorContext`  
An `ITypeDescriptorContext` that provides a format context.

*culture*
Type: `System.Globalization.CultureInfo`  
The `CultureInfo` to use as the current culture.

*value*
Type: `System.Object`  
The object to convert.

*destinationType*
Type: `System.Type`  
The type to convert the `value` parameter to.

**Return Value**

Type: `Object`  
An object that represents the converted value.
See Also

RasDeviceTypeConverter Class
RasDeviceTypeConverter Members
ConvertTo Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialDialog Class

Prompts the user to dial a phone book entry. This class cannot be inherited.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public sealed class RasDialDialog : RasCommonDialog</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public NotInheritable Class RasDialDialog Inherits RasCommonDialog</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public ref class RasDialDialog sealed : public RasCommonDialog</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>[&lt;SealedAttribute&gt;] type RasDialDialog = class inherit RasCommonDialog end</td>
</tr>
</tbody>
</table>
Examples

The following example shows how to use the **RasDialDialog** component to display a user interface to dial a specific connection.

### C#

```csharp
using (RasDialDialog dialog = new RasDialDialog())
{
    dialog.EntryName = "VPN Connection";
    dialog.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers);
    {
        // The entry has connected successfully.
    }
}
```

### Visual Basic

```vbnet
Dim dialog As RasDialDialog
Try
    dialog = New RasDialDialog
    dialog.EntryName = "VPN Connection"
    dialog.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers)
    If (dialog.ShowDialog() = System.Windows.Forms.DialogResult.OK) Then
        ' The entry has connected successfully.
    End If
Finally
    If (dialog IsNot Nothing) Then
        dialog.Dispose()
    End If
End Try
```
Inheritance Hierarchy

- **System.Object**
- **System.MarshalByRefObject**
- **System.ComponentModel.Component**
- **System.Windows.Forms.CommonDialog**
- **DotRas.Design.RasCommonDialog**
- **DotRas.RasDialDialog**
See Also

RasDialDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The RasDialDialog type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialDialog</td>
<td>Initializes a new instance of the RasDialDialog class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets all RasCommonDialog properties to their default values. (Overrides RasCommonDialog.Reset().)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>ShowDialog()</td>
<td>Runs a common dialog box with a default owner. (Inherited from CommonDialog.)</td>
</tr>
<tr>
<td>ShowDialog(IWin32Window)</td>
<td>Runs a common dialog box with the specified owner. (Inherited from CommonDialog.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden. (Inherited from Component.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Container</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.icontainer">IContainer</a> that contains the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component">Component</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component">Component</a>.)</td>
</tr>
<tr>
<td><strong>EntryName</strong></td>
<td>Gets or sets the name of the entry to be dialed.</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Gets or sets the coordinates of the upper-left corner of the dialog box. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.rascommondialog">RasCommonDialog</a>.)</td>
</tr>
<tr>
<td><strong>PhoneBookPath</strong></td>
<td>Gets or sets the full path (including filename) to the phone book.</td>
</tr>
<tr>
<td><strong>PhoneNumber</strong></td>
<td>Gets or sets the phone number to dial.</td>
</tr>
<tr>
<td><strong>Site</strong></td>
<td>Gets or sets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.isite">ISite</a> of the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component">Component</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component">Component</a>.)</td>
</tr>
<tr>
<td><strong>SubEntryId</strong></td>
<td>Gets or sets the zero-based index of the subentry to dial.</td>
</tr>
<tr>
<td><strong>Tag</strong></td>
<td>Gets or sets an object that contains data about the control. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.commondialog">CommonDialog</a>.)</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the dialog has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>RasCommonDialog</code>.)</td>
</tr>
<tr>
<td>HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>CommonDialog</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialDialog Constructor

Initializes a new instance of the **RasDialDialog** class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasDialDialog()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasDialDialog()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; RasDialDialog</code></td>
</tr>
</tbody>
</table>
See Also

RasDialDialog Class
RasDialDialog Members
DotRas Namespace

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RasDialDialog Methods

RasDialDialog Class  See Also  Send Feedback

The RasDialDialog type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets all RasDialDialog properties to their default values. (Overrides RasCommonDialog.Reset().)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><code>ShowDialog()</code></td>
<td>Runs a common dialog box with a default owner. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
<tr>
<td><code>ShowDialog(IWin32Window)</code></td>
<td>Runs a common dialog box with the specified owner. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a <code>String</code> containing the name of the <code>Component</code>, if any. This method should not be overridden. (Inherited from <code>Component</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Resets all RasDialDialog properties to their default values.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public override void Reset()
```

**Visual Basic**

```vbnet
Public Overrides Sub Reset
```

**Visual C++**

```cpp
public:
virtual void Reset() override
```

**F#**

```fsharp
abstract Reset : unit -> unit
override Reset : unit -> unit
```
See Also

RasDialDialog Class
RasDialDialog Members
DotRas Namespace

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The `RasDialog` type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>Gets the <code>IContainer</code> that contains the <code>Component</code>. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>EntryName</td>
<td>Gets or sets the name of the entry to be dialed.</td>
</tr>
<tr>
<td>Location</td>
<td>Gets or sets the coordinates of the upper-left corner of the dialog box. (Inherited from <code>RasCommonDialog</code>.)</td>
</tr>
<tr>
<td>PhoneBookPath</td>
<td>Gets or sets the full path (including filename) to the phone book.</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Gets or sets the phone number to dial.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the <code>ISite</code> of the <code>Component</code>. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>SubEntryId</td>
<td>Gets or sets the zero-based index of the subentry to dial.</td>
</tr>
<tr>
<td>Tag</td>
<td>Gets or sets an object that contains data about the control. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the name of the entry to be dialed.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public string EntryName { get; set; }
``` |
| Visual Basic | ```
Public Property EntryName As String
    Get
    Set
``` |
| Visual C++ | ```
public:
    property String^ EntryName {
        String^ get ();
        void set (String^ value);
    }
``` |
| F#       | ```
member EntryName : string with get, set
``` |

### Property Value

Type: [String](#)
See Also

RasDialDialog Class
RasDialDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the full path (including filename) to the phone book.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public string PhoneBookPath { get; set; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Property PhoneBookPath As String Get Set</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property String^ PhoneBookPath {    String^ get ();    void set (String^ value); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member PhoneBookPath : string with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](#)
See Also

RasDialDialog Class
RasDialDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialDialog.PhoneNumber Property

Gets or sets the phone number to dial.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string PhoneNumber { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property PhoneNumber As String Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property String^ PhoneNumber { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member PhoneNumber : string with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
Remarks
This value overrides the numbers stored in the phone book.
See Also

RasDialDialog Class
RasDialDialog Members
DotRas Namespace
RasDialDialog.SubEntryId Property

Gets or sets the zero-based index of the subentry to dial.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public int SubEntryId { get; set; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Property SubEntryId As Integer Get Set</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property int SubEntryId { int get (); void set (int value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member SubEntryId : int with get, set</td>
</tr>
</tbody>
</table>

**Property Value**
Type: [Int32](#)
See Also

RasDialDialog Class
RasDialDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasDialDialog** type exposes the following members.
### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the dialog has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>RasCommonDialog</code>.)</td>
</tr>
<tr>
<td>HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>CommonDialog</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Provides an interface to the remote access service (RAS) dialer. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public sealed class RasDialer : RasComponent</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public NotInheritable Class RasDialer Inherits RasComponent</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public ref class RasDialer sealed : public RasComponent</td>
</tr>
</tbody>
</table>
| F#       | [<SealedAttribute>] type RasDialer =   
|          |   class   
|          |     inherit RasComponent   
|          | end |
Remarks

Failure to dispose of this component may result in a connection attempt hanging, which will require the machine to be restarted before the connection is released.

When using **RasDialer** to dial connections asynchronously, ensure the SynchronizingObject property is set if thread synchronization is required. If this is not done, you may get cross-thread exceptions thrown from the component. This is typically needed with applications that have an interface; for example, Windows Forms or Windows Presentation Foundation (WPF).

If an exception occurs while processing an event while dialing asynchronously, that exception will be raised through the Error event on **RasDialer**. This approach allows the application to continue processing the notifications from Windows, which would otherwise cause the state machine to be corrupted and require the machine to be rebooted.

The events raised by this component occur only during a dialing operation, if you need to monitor connection changes made outside of dialing a connection use the **RasConnectionWatcher** component.

Known Limitations

- Due to limitations with Windows, **RasDialer** cannot handle expired passwords or have the ability to change a password while connecting.

- This component can only handle dialing one connection at a time. If your application needs to dial multiple connections simultaneously, use multiple instances of the component.
## Examples

The following example shows how to use a **RasDialer** component to synchronously dial an existing entry.

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
</tr>
</thead>
</table>

| using (RasDialer dialer = new RasDialer()) |
| { |
| dialer.EntryName = "My Connection"; |
| dialer.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers); |
| dialer.Credentials = new NetworkCredential("Test", |
| dialer.Dial(); |
| } |

| Dim dialer As RasDialer |
| Try |
| dialer = New RasDialer |
| dialer.EntryName = "My Connection" |
| dialer.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers) |
| dialer.Credentials = new NetworkCredential("Test", |
| dialer.Dial() |
| Finally |
| If (dialer IsNot Nothing) Then |
| dialer.Dispose() |
| End If |
| End Try |
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
System.ComponentModel.Component
DotRas.Design.RasComponent
DotRas.RasDialer
See Also

- RasDialer Members
- DotRas Namespace

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The **RasDialer** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialer()</td>
<td>Initializes a new instance of the RasDialer class.</td>
</tr>
<tr>
<td>RasDialer(IContainer)</td>
<td>Initializes a new instance of the RasDialer class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Dial</strong></td>
<td>Dials the connection.</td>
</tr>
<tr>
<td><strong>DialAsync</strong></td>
<td>Dials the connection asynchronously.</td>
</tr>
<tr>
<td><strong>DialAsyncCancel</strong></td>
<td>Cancels the asynchronous dial operation.</td>
</tr>
<tr>
<td><strong>Dispose</strong></td>
<td>Releases all resources used by the Component.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>SetEapUserData</strong></td>
<td>Sets the EAP data used by the connection attempt.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden.</td>
</tr>
<tr>
<td>(Inherited from Component.)</td>
<td></td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AllowUseStoredCredentials</strong></td>
<td>Gets or sets a value indicating whether stored credentials will be allowed if the credentials have not been provided.</td>
</tr>
<tr>
<td><strong>AuthenticationCookie</strong></td>
<td>Gets or sets a pointer to the authentication cookie.</td>
</tr>
<tr>
<td><strong>AutoUpdateCredentials</strong></td>
<td>Gets or sets a value indicating whether the saved credentials will be updated upon completion of a successful connection attempt.</td>
</tr>
<tr>
<td><strong>CallbackId</strong></td>
<td>Gets or sets the application defined callback id.</td>
</tr>
<tr>
<td><strong>CallbackNumber</strong></td>
<td>Gets or sets the callback number.</td>
</tr>
<tr>
<td><strong>Container</strong></td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>Credentials</strong></td>
<td>Gets or sets the credentials.</td>
</tr>
<tr>
<td><strong>EapOptions</strong></td>
<td>Gets or sets the extensible authentication protocol (EAP) options.</td>
</tr>
<tr>
<td><strong>EntryName</strong></td>
<td>Gets or sets the name of the entry to dial.</td>
</tr>
<tr>
<td><strong>HangUpPollingInterval</strong></td>
<td>Gets or sets the polling interval, in milliseconds, to determine whether the connection has successfully disconnected during an asynchronous connection attempt.</td>
</tr>
<tr>
<td><strong>InterfaceIndex</strong></td>
<td>Gets or sets the interface index on top of which the Virtual Private Network (VPN) connection will be dialed.</td>
</tr>
<tr>
<td><strong>IsBusy</strong></td>
<td>Gets a value indicating whether the component is busy dialing a</td>
</tr>
</tbody>
</table>

**Table:**
- **Name:** The name of the property.
- **Description:** A description of what the property does.
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options</td>
<td>Gets or sets the options.</td>
</tr>
<tr>
<td>Owner</td>
<td>Gets or sets the parent window.</td>
</tr>
<tr>
<td>PhoneBookPath</td>
<td>Gets or sets the full path (including filename) of a phone book.</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Gets or sets the phone number to dial.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>SkipPppAuthentication</td>
<td>Gets or sets a value indicating whether point-to-point (PPP) authentication is skipped.</td>
</tr>
<tr>
<td>SubEntryId</td>
<td>Gets or sets the one-based index of the subentry to dial.</td>
</tr>
<tr>
<td>SynchronizingObject</td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component. (Inherited from RasComponent.)</td>
</tr>
<tr>
<td>Timeout</td>
<td>Gets or sets the length of time (in milliseconds) until the asynchronous connection attempt times out.</td>
</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DialCompleted</td>
<td>Occurs when the asynchronous dial operation has completed.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Component.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the component has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasComponent.)</td>
</tr>
<tr>
<td>StateChanged</td>
<td>Occurs when the connection state changes.</td>
</tr>
</tbody>
</table>
See Also

RasDialer Class
DotRas Namespace

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DotRas SDK Documentation

RasDialer Constructor

RasDialer Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialer()</td>
<td>Initializes a new instance of the RasDialer class.</td>
</tr>
<tr>
<td>RasDialer(IContainer)</td>
<td>Initializes a new instance of the RasDialer class.</td>
</tr>
</tbody>
</table>
*See Also*

[See Also](#)

- RasDialer Class
- RasDialer Members
- DotRas Namespace

[Copyright (c) Jeff Winn. All rights reserved.](#)
RasDialer Constructor

Initializes a new instance of the RasDialer class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><code>public RasDialer()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
</tr>
<tr>
<td><code>public: RasDialer()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
</tr>
<tr>
<td><code>new : unit -&gt; RasDialer</code></td>
</tr>
</tbody>
</table>
See Also

RasDialer Class
RasDialer Members
RasDialer Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialer Constructor (IContainer)

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasDialer (IContainer container)</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub New (container As IContainer)</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: RasDialer (IContainer^ container)</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>new : container : IContainer -&gt; RasDialer</code></td>
</tr>
</tbody>
</table>

### Parameters

`container`

Type: [System.ComponentModel.IContainer](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.icontrailer)

An [IContainer](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.icontrailer) that will contain the component.
See Also

RasDialer Class
RasDialer Members
RasDialer Overload
DotRas Namespace

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The **RasDialer** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dial</td>
<td>Dials the connection.</td>
</tr>
<tr>
<td>DialAsync</td>
<td>Dials the connection asynchronously.</td>
</tr>
<tr>
<td>DialAsyncCancel</td>
<td>Cancels the asynchronous dial operation.</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>SetEapUserData</td>
<td>Sets the EAP data used by the connection attempt.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden.</td>
</tr>
</tbody>
</table>
(Inherited from Component.)
See Also

- RasDialer Class
- DotRas Namespace

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RasDialer.Dial Method

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Dials the connection.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasHandle Dial()</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Function Dial As RasHandle</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: RasHandle^ Dial()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member Dial : unit -&gt; RasHandle</code></td>
</tr>
</tbody>
</table>

**ReturnValue**

Type: [RasHandle](#)

The handle of the connection.
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>A phone number or an entry name with phone book path is required to dial.</td>
</tr>
</tbody>
</table>
Dials the connection asynchronously.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

**C#**

```csharp
public RasHandle DialAsync()
```

**Visual Basic**

```vbnet
Public Function DialAsync As RasHandle
```

**Visual C++**

```cpp
public:
RasHandle^ DialAsync()
```

**F#**

```fsharp
member DialAsync : unit -> RasHandle
```

**Return Value**

Type: [RasHandle](#)

The handle of the connection.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
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<tr>
<td><code>System.InvalidOperationException</code></td>
<td>A phone number or an entry name with phone book path is required to dial.</td>
</tr>
</tbody>
</table>
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Cancels the asynchronous dial operation.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public void DialAsyncCancel()</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Sub DialAsyncCancel</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: void DialAsyncCancel()</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member DialAsyncCancel : unit -&gt; unit</td>
</tr>
</tbody>
</table>
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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RasDialer.SetEapUserData Method

Sets the EAP data used by the connection attempt.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public void SetEapUserData(
    byte[] data
)
```

### Visual Basic

```vbnet
Public Sub SetEapUserData (
    data As Byte()
)
```

### Visual C++

```cpp
public:
void SetEapUserData(
    array<unsigned char>^ data
)
```

### F#

```fsharp
member SetEapUserData :
    data : byte[] -> unit
```

## Parameters

### data
Type: System.Byte[]
A byte array containing EAP data.
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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The **RasDialer** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowUseStoredCredentials</td>
<td>Gets or sets a value indicating whether stored credentials will be allowed if the credentials have not been provided.</td>
</tr>
<tr>
<td>AuthenticationCookie</td>
<td>Gets or sets a pointer to the authentication cookie.</td>
</tr>
<tr>
<td>AutoUpdateCredentials</td>
<td>Gets or sets a value indicating whether the saved credentials will be updated upon completion of a successful connection attempt.</td>
</tr>
<tr>
<td>CallbackId</td>
<td>Gets or sets the application defined callback id.</td>
</tr>
<tr>
<td>CallbackNumber</td>
<td>Gets or sets the callback number.</td>
</tr>
<tr>
<td>Container</td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Credentials</td>
<td>Gets or sets the credentials.</td>
</tr>
<tr>
<td>EapOptions</td>
<td>Gets or sets the extensible authentication protocol (EAP) options.</td>
</tr>
<tr>
<td>EntryName</td>
<td>Gets or sets the name of the entry to dial.</td>
</tr>
<tr>
<td>HangUpPollingInterval</td>
<td>Gets or sets the polling interval, in milliseconds, to determine whether the connection has successfully disconnected during an asynchronous connection attempt.</td>
</tr>
<tr>
<td>InterfaceIndex</td>
<td>Gets or sets the interface index on top of which the Virtual Private Network (VPN) connection will be dialed.</td>
</tr>
<tr>
<td>IsBusy</td>
<td>Gets a value indicating whether the component is busy dialing a connection.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Gets or sets the options.</td>
</tr>
<tr>
<td><strong>Owner</strong></td>
<td>Gets or sets the parent window.</td>
</tr>
<tr>
<td><strong>PhoneBookPath</strong></td>
<td>Gets or sets the full path (including filename) of a phone book.</td>
</tr>
<tr>
<td><strong>PhoneNumber</strong></td>
<td>Gets or sets the phone number to dial.</td>
</tr>
<tr>
<td><strong>Site</strong></td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>SkipPppAuthentication</strong></td>
<td>Gets or sets a value indicating whether point-to-point (PPP) authentication is skipped.</td>
</tr>
<tr>
<td><strong>SubEntryId</strong></td>
<td>Gets or sets the one-based index of the subentry to dial.</td>
</tr>
<tr>
<td><strong>SynchronizingObject</strong></td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component. (Inherited from RasComponent.)</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Gets or sets the length of time (in milliseconds) until the asynchronous connection attempt times out.</td>
</tr>
</tbody>
</table>
See Also

RasDialer Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialer.AllowUseStoredCredentials Property

Gets or sets a value indicating whether stored credentials will be allowed if the credentials have not been provided.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool AllowUseStoredCredentials { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property AllowUseStoredCredentials As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool AllowUseStoredCredentials { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member AllowUseStoredCredentials : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a pointer to the authentication cookie.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public IntPtr AuthenticationCookie { get; set; }
```

**Visual Basic**

```vbnet
Public Property AuthenticationCookie As IntPtr
    Get
    Set
```

**Visual C++**

```c++
public:
    property IntPtr AuthenticationCookie {
        IntPtr get ();
        void set (IntPtr value);
    }
```

**F#**

```fsharp
member AuthenticationCookie : IntPtr with get, set
```

### Property Value

Type: **IntPtr**
Remarks

Windows 7 and later: This property is available.
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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RasDialer.AutoUpdateCredentials Property

Gets or sets a value indicating whether the saved credentials will be updated upon completion of a successful connection attempt.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasUpdateCredential AutoUpdateCredentials {
    get;
    set;
}
```

**Visual Basic**

```vbnet
Public Property AutoUpdateCredentials As RasUpdateCredential
    Get
    Set
```

**Visual C++**

```cpp
public:
    property RasUpdateCredential AutoUpdateCredentials {
        RasUpdateCredential get ();
        void set (RasUpdateCredential value);
    }
```

**F#**

```fsharp
member AutoUpdateCredentials : RasUpdateCredential with
```

### Property Value

Type: [RasUpdateCredential](#)
Remarks

If the entry is stored in a custom location or the current users profile, the credentials cannot be stored in the all users profile. However, if an entry is stored in the all users profile then the credentials may be stored in the current users profile or the all users profile.
See Also

RasDialer Class
RasDialer Members
DotRas Namespace
RasDialer.CallbackId Property

Gets or sets the application defined callback id.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public IntPtr CallbackId { get; set; }</code></td>
<td><code>Public Property CallbackId As IntPtr Get Set</code></td>
<td><code>public: property IntPtr CallbackId { IntPtr get (); void set (IntPtr value); }</code></td>
<td><code>member CallbackId : IntPtr with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: `IntPtr`
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the callback number.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public string CallbackNumber { get; set; }</td>
<td>Public Property CallbackNumber As String</td>
<td>public: property String^ CallbackNumber {</td>
<td>member CallbackNumber : string with get, set</td>
</tr>
<tr>
<td></td>
<td>Get</td>
<td>String^ get ();</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Set</td>
<td>void set (String^ value);</td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [String](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialer.Credentials Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the credentials.
### Syntax

**C#**

```csharp
public NetworkCredential Credentials { get; set; }
```

**Visual Basic**

```vbnet
Public Property Credentials As NetworkCredential
Get
Set
```

**Visual C++**

```cpp
public:
property NetworkCredential^ Credentials {
    NetworkCredential^ get ();
    void set (NetworkCredential^ value);
}
```

**F#**

```fsharp
member Credentials : NetworkCredential with get, set
```

### Property Value

Type: [NetworkCredential]
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialer.EapOptions Property

Gets or sets the extensible authentication protocol (EAP) options.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasEapOptions EapOptions { get; set; }
```

#### Visual Basic

```vbnet
Public Property EapOptions As RasEapOptions
    Get
    Set
```

#### Visual C++

```cpp
public:
    property RasEapOptions^ EapOptions {
        RasEapOptions^ get ();
        void set (RasEapOptions^ value);
    }
```

#### F#

```fsharp
member EapOptions : RasEapOptions with get, set
```

### Property Value

Type: [RasEapOptions](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace
RasDialer.EntryName Property

Gets or sets the name of the entry to dial.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string EntryName { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property EntryName As String</code></td>
</tr>
<tr>
<td></td>
<td>Get</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property String^ EntryName {</code></td>
</tr>
<tr>
<td></td>
<td>String^ get ();</td>
</tr>
<tr>
<td></td>
<td>void set (String^ value);</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member EntryName : string with get, set</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: `String`
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialer.HangUpPollingInterval Property

Gets or sets the polling interval, in milliseconds, to determine whether the connection has successfully disconnected during an asynchronous connection attempt.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public int HangUpPollingInterval { get; set; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Property HangUpPollingInterval As Integer Get Set</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property int HangUpPollingInterval { int get (); void set (int value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member HangUpPollingInterval : int with get, set</td>
</tr>
</tbody>
</table>

**Property Value**
Type: [Int32](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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RasDialer.InterfaceIndex Property

Gets or sets the interface index on top of which the Virtual Private Network (VPN) connection will be dialed.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int InterfaceIndex { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property InterfaceIndex As Integer
Get
Set` |
| **Visual C++** | `public:
property int InterfaceIndex {
    int get ();
    void set (int value);
}
` |
| **F#**   | `member InterfaceIndex : int with get, set` |

### Property Value

Type: [Int32](#)
Remarks

Windows 7 and later: This property is available.
See Also

RasDialer Class
RasDialer Members
DotRas Namespace
RasDialer.IsBusy Property

Gets a value indicating whether the component is busy dialing a connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool IsBusy { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property IsBusy As Boolean Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool IsBusy { bool get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member IsBusy : bool with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the options.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public RasDialOptions Options { get; set; }</td>
</tr>
</tbody>
</table>
| **Visual Basic** | Public Property Options As RasDialOptions  
Get  
Set |
| **Visual C++** | public: property RasDialOptions^ Options {  
RasDialOptions^ get ();  
void set (RasDialOptions^ value);  
} |
| **F#**   | member Options : RasDialOptions with get, set |

### Property Value

Type: [RasDialOptions](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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RasDialer.Owner Property

Gets or sets the parent window.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public IWin32Window Owner { get; set; }</code></td>
</tr>
</tbody>
</table>
| Visual Basic | `Public Property Owner As IWin32Window
              Get
              Set`                                |
| Visual C++ | `public:
           property IWin32Window^ Owner {
              IWin32Window^ get ();
              void set (IWin32Window^ value);` |
| F#         | `member Owner : IWin32Window with get, set`                         |

### Property Value

Type: `IWin32Window`
Remarks

This object is used for dialog box creation and centering when a security DLL has been defined.
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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RasDialer.PhoneBookPath Property

Gets or sets the full path (including filename) of a phone book.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>public string PhoneBookPath { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
</tbody>
</table>
|     | ```Public Property PhoneBookPath As String
         Get
         Set``` |
| **Visual C++** |       |
|     | ```public:
       property String^ PhoneBookPath {
         String^ get ();
         void set (String^ value);
       }``` |
| **F#** |       |
|     | ```member PhoneBookPath : string with get, set``` |

**Property Value**

Type: [String](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the phone number to dial.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string PhoneNumber { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property PhoneNumber As String Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property String^ PhoneNumber { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member PhoneNumber : string with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](#)
Remarks

This value is not required when an entry name has been provided. Additionally, it will override any existing phone number if an entry name has been provided.
See Also

- RasDialer Class
- RasDialer Members
- DotRas Namespace
RasDialer.SkipPppAuthentication Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets a value indicating whether point-to-point (PPP) authentication is skipped.
### Syntax

#### C#

```csharp
public bool SkipPppAuthentication { get; set; }
```

#### Visual Basic

```vbnet
Public Property SkipPppAuthentication As Boolean
    Get
        Return SkipPppAuthentication
    Set
        SkipPppAuthentication = value
```

#### Visual C++

```cpp
public:
    property bool SkipPppAuthentication {
        bool get ();
        void set (bool value);
    }
```

#### F#

```fsharp
member SkipPppAuthentication : bool with get, set
```

### Property Value

Type: [Boolean](#)
Remarks

Windows 7 and later: This property is available.
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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RasDialer.SubEntryId Property

Gets or sets the one-based index of the subentry to dial.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int SubEntryId { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property SubEntryId As Integer Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: int SubEntryId { int get (); void set (int value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member SubEntryId : int with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: **Int32**
\section*{See Also}

- RasDialer Class
- RasDialer Members
- DotRas Namespace

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RasDialer.Timeout Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the length of time (in milliseconds) until the asynchronous connection attempt times out.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int Timeout { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property Timeout As Integer
Get
Set` |
| **Visual C++** | `public:
property int Timeout {
   int get ();
   void set (int value);
};` |
| **F#** | `member Timeout : int with get, set` |

### Property Value

Type: [Int32](#)
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

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The **RasDialer** type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DialCompleted</td>
<td>Occurs when the asynchronous dial operation has completed.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasComponent.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the component has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasComponent.)</td>
</tr>
<tr>
<td>StateChanged</td>
<td>Occurs when the connection state changes.</td>
</tr>
</tbody>
</table>
See Also

- RasDialer Class
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialer.DialCompleted Event

Occurs when the asynchronous dial operation has completed.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public event EventHandler&lt;DialCompletedEventArgs&gt; DialCompleted</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Event DialCompleted As EventHandler(Of DialCompletedEventArgs)</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: event EventHandler&lt;DialCompletedEventArgs^&gt;^ DialCompleted; void add (EventHandler&lt;DialCompletedEventArgs^&gt;); void remove (EventHandler&lt;DialCompletedEventArgs^&gt;);</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member DialCompleted : IEvent&lt;EventHandler&lt;DialCompletedEventArgs&gt;&gt;</code></td>
</tr>
</tbody>
</table>

## Value

Type: `System.EventHandler<DialCompletedEventArgs>`
See Also

RasDialer Class
RasDialer Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialer.StateChanged Event

Occurs when the connection state changes.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public event EventHandler&lt;StateChangedEventArgs&gt; StateChanged</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Event StateChanged As EventHandler(Of StateChangedEventArgs)</code></td>
</tr>
</tbody>
</table>
| Visual C++ | `public:
  event EventHandler<StateChangedEventArgs^>^ StateChanged;
  void add (EventHandler<StateChangedEventArgs^>);
  void remove (EventHandler<StateChangedEventArgs^>);` |
| F#         | `member StateChanged : IEvent<EventHandler<StateChangedEventArgs>>`     |

### Value

Type: `System.EventHandler<StateChangedEventArgs>`
See Also

RasDialer Class
RasDialer Members
DotRas Namespace
The exception that is thrown when a remote access service (RAS) error occurs while dialing a connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><img src="csharp.png" alt="C# Syntax" /></td>
<td><img src="csharp.png" alt="C# Syntax" /></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><img src="vb.png" alt="Visual Basic Syntax" /></td>
<td><img src="vb.png" alt="Visual Basic Syntax" /></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><img src="cpp.png" alt="Visual C++ Syntax" /></td>
<td><img src="cpp.png" alt="Visual C++ Syntax" /></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><img src="fsharp.png" alt="F# Syntax" /></td>
<td><img src="fsharp.png" alt="F# Syntax" /></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

- `System.Object`
- `System.Exception`
- `DotRas.RasException`
- `DotRas.RasDialException`
See Also

RasDialException Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasDialException` type exposes the following members.
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialException()</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(String)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(Int32, Int32)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(SerializationInfo, StreamingContext)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(String, Exception)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
</tbody>
</table>
# Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetBaseException</strong></td>
<td>When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Populates a <a href="#">SerializationInfo</a> with the data needed to serialize the target object. (Overrides <a href="#">RasException.GetObjectData(SerializationInfo, StreamingContext)</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data</strong></td>
<td>Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the error code that caused the exception. (Inherited from RasException.)</td>
</tr>
<tr>
<td><strong>ExtendedErrorCode</strong></td>
<td>Gets the extended error code (if any) that occurred.</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>Gets or sets a link to the help file associated with this exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>HResult</strong></td>
<td>Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>Gets the Exception instance that caused the current exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Gets a message that describes the current exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Gets or sets the name of the application or the object that causes the error. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>StackTrace</strong></td>
<td>Gets a string representation of the immediate frames on the call stack. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>Gets the method that throws the current exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
See Also

RasDialException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialException Constructor

RasDialException Class  See Also  Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialException()</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(String)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(Int32, Int32)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(SerializationInfo, StreamingContext)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
<tr>
<td>RasDialException(String, Exception)</td>
<td>Initializes a new instance of the RasDialException class.</td>
</tr>
</tbody>
</table>
See Also

RasDialException Class
RasDialException Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialException Constructor

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Initializes a new instance of the RasDialException class.
## Syntax

### C#

```csharp
public RasDialException()
```

### Visual Basic

```vbnet
Public Sub New
```

### Visual C++

```cpp
public:
RasDialException()
```

### F#

```fsharp
new : unit -> RasDialException
```
See Also

- RasDialException Class
- RasDialException Members
- RasDialException Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialException Constructor (String)

Initializes a new instance of the RasDialException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#** | `public RasDialException(  
string message  
) ` |
| **Visual Basic** | `Public Sub New (  
message As String  
) ` |
| **Visual C++** | `public:  
RasDialException(  
String^ message  
) ` |
| **F#** | `new :  
message : string -> RasDialException ` |

### Parameters

*message*

Type:  **System.String**

A message that describes the error.
See Also

RasDialException Class
RasDialException Members
RasDialException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialException Constructor (Int32, Int32)

Initializes a new instance of the RasDialException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Parameters

*errorCode*
Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
The error code that caused the exception.

*extendedErrorCode*
Type: **System.Int32**
The extended error code (if any) that occurred.
See Also

RasDialException Class
RasDialException Members
RasDialException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialException Constructor (SerializationInfo, StreamingContext)

Initializes a new instance of the RasDialException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
protected RasDialException(
    SerializationInfo info,
    StreamingContext context
)
``` |
| Visual Basic | ```
Protected Sub New (
    info As SerializationInfo,
    context As StreamingContext
)
``` |
| Visual C++ | ```
protected:
RasDialException(
    SerializationInfo^ info,
    StreamingContext context
)
``` |
| F#       | ```
new : info : SerializationInfo *
context : StreamingContext -> RasDialException
``` |

### Parameters

- **info**
  - Type: `System.Runtime.Serialization.SerializationInfo`
  - The object that holds the serialized object data.

- **context**
Type: `System.Runtime.Serialization.StreamingContext`
The contextual information about the source or destination.
See Also

RasDialException Class
RasDialException Members
RasDialException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialException Constructor (String, Exception)

Initializes a new instance of the RasDialException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>c#</code></td>
<td>public RasDialException( string message, Exception innerException )</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>vb</code></td>
<td>Public Sub New ( message As String, innerException As Exception )</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>cpp</code></td>
<td>public: RasDialException( String^ message, Exception^ innerException )</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>f#</code></td>
<td>new : message : string * innerException : Exception -&gt; RasDialException</td>
</tr>
</tbody>
</table>

### Parameters

*message*

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

A message that describes the error.

*innerException*
Type: **System.Exception**

The exception that is the cause of the current exception, or a null reference (**Nothing** in Visual Basic) if no inner exception is specified.
See Also

RasDialException Class
RasDialException Members
RasDialException Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasDialException** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetBaseException</strong></td>
<td>When overridden in a derived class, returns the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Populates a <a href="https://docs.microsoft.com/en-us/dotnet/api/system.serialization.serializationinfo">SerializationInfo</a> with the data needed to serialize the target object. (Overrides <code>RasException.GetObjectData(SerializationInfo, StreamingContext)</code>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the runtime type of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Creates and returns a string representation of the current exception. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.exception">Exception</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialException.GetObjectData Method

RasDialException Class  See Also  Send Feedback

Overridden. Populates a SerializationInfo with the data needed to serialize the target object.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Syntax</th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>`public override void GetObjectData(</td>
<td>`Public Overrides Sub GetObjectData (</td>
<td>`public: virtual void GetObjectData(</td>
<td>`abstract GetObjectData :</td>
</tr>
<tr>
<td></td>
<td>SerializationInfo `info,</td>
<td>_info As SerializationInfo,</td>
<td>SerializationInfo^ `info,</td>
<td>`info : SerializationInfo *</td>
</tr>
<tr>
<td></td>
<td>StreamingContext `context</td>
<td>_context As StreamingContext</td>
<td>StreamingContext context</td>
<td><code>context : StreamingContext -&gt; </code>unit</td>
</tr>
<tr>
<td></td>
<td>)</td>
<td></td>
<td>) override</td>
<td>override</td>
</tr>
</tbody>
</table>

### Parameters

- **info**
  - Type: `System.Runtime.Serialization.SerializationInfo`
The object that holds the serialized object data.

*context*
The contextual information about the source or destination.

**Implements**
_
See Also

RasDialException Class
RasDialException Members
DotRas Namespace
The **RasDialException** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data</strong></td>
<td>Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the error code that caused the exception. (Inherited from <code>RasException</code>.)</td>
</tr>
<tr>
<td><strong>ExtendedErrorCode</strong></td>
<td>Gets the extended error code (if any) that occurred.</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>Gets or sets a link to the help file associated with this exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>HResult</strong></td>
<td>Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>Gets the <code>Exception</code> instance that caused the current exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Gets a message that describes the current exception. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Gets or sets the name of the application or the object that causes the error. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>StackTrace</strong></td>
<td>Gets a string representation of the immediate frames on the call stack. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>Gets the method that throws the current exception. (Inherited from <code>Exception</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the extended error code (if any) that occurred.

**Namespace:** [DotRas](https://dotras.codeplex.com/)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int ExtendedErrorCode { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ExtendedErrorCode As Integer Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int ExtendedErrorCode { int get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ExtendedErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: **Int32**
See Also

RasDialException Class
RasDialException Members
DotRas Namespace

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The RasDialException type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
See Also

RasDialException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Defines the dial modes.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum RasDialMode</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration RasDialMode</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public enum class RasDialMode</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>type RasDialMode</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No dial mode specified.</td>
</tr>
<tr>
<td>DialAll</td>
<td>1</td>
<td>Dial all subentries.</td>
</tr>
<tr>
<td>DialAsNeeded</td>
<td>2</td>
<td>Dial the number of subentries as additional bandwidth is needed.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace

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Specifies the dialog styles for a RasEntryDialog component.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum RasDialogStyle</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration RasDialogStyle</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public enum class RasDialogStyle</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>type RasDialogStyle</code></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create</td>
<td>0</td>
<td>Create a new entry.</td>
</tr>
<tr>
<td>Edit</td>
<td>1</td>
<td>Edit an existing entry.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents options for dialing a remote access service (RAS) entry. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>[SerializableAttribute]</code></td>
<td></td>
</tr>
</tbody>
</table>
| `[TypeConverterAttribute(typeof(RasDialOptionsConverter))]
public sealed class RasDialOptions |  |
| **Visual Basic** |  |
| `<SerializableAttribute>` |  |
| `<TypeConverterAttribute(GetType(RasDialOptionsConverter))>` |  |
| Public NotInheritable Class RasDialOptions |  |
| **Visual C++** |  |
| `[SerializableAttribute]` |  |
| `[TypeConverterAttribute(typeof(RasDialOptionsConverter))]
public ref class RasDialOptions sealed |  |
| **F#** |  |
| `[@SealedAttribute]
[@SerializableAttribute]
[@TypeConverterAttribute(typeof(RasDialOptionsConverter))]
type RasDialOptions = class end` |  |
- Inheritance Hierarchy
  - System.Object
  - DotRas.RasDialOptions
See Also

RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasDialOptions** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialOptions()</td>
<td>Initializes a new instance of the RasDialOptions class.</td>
</tr>
<tr>
<td>RasDialOptions(Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean)</td>
<td>Initializes a new instance of the RasDialOptions class.</td>
</tr>
<tr>
<td>RasDialOptions(Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean)</td>
<td>Initializes a new instance of the RasDialOptions class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomDial</td>
<td>Gets or sets a value indicating whether to dial normally instead of calling the custom dial entry point of the custom dialer.</td>
</tr>
<tr>
<td>DisableConnectedUI</td>
<td>Gets or sets a value indicating whether to disable the connected user interface.</td>
</tr>
<tr>
<td>DisableReconnect</td>
<td>Gets or sets a value indicating whether to disable reconnect.</td>
</tr>
<tr>
<td>DisableReconnectUI</td>
<td>Gets or sets a value indicating whether to disable the reconnect user interface.</td>
</tr>
<tr>
<td>NoUser</td>
<td>Gets or sets a value indicating whether no user is present.</td>
</tr>
<tr>
<td>PausedStates</td>
<td>Gets or sets a value indicating whether to accept paused states.</td>
</tr>
<tr>
<td>Router</td>
<td>Gets or sets a value indicating whether the connecting device is a router.</td>
</tr>
<tr>
<td>SetModemSpeaker</td>
<td>Gets or sets a value indicating whether to set the modem speaker.</td>
</tr>
<tr>
<td>SetSoftwareCompression</td>
<td>Gets or sets a value indicating whether to enable software compression.</td>
</tr>
<tr>
<td>UseCustomScripting</td>
<td>Gets or sets a value indicating whether the dialer should invoke a custom-scripting DLL after establishing the connection to the server.</td>
</tr>
<tr>
<td>UsePrefixSuffix</td>
<td>Gets or sets a value indicating whether the prefix and suffix that is in the phone book should be used.</td>
</tr>
</tbody>
</table>
See Also

RasDialOptions Class
DotRas Namespace

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RasDialOptions Constructor

RasDialOptions Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialOptions()</td>
<td>Initializes a new instance of the <a href="#">RasDialOptions</a> class.</td>
</tr>
<tr>
<td>RasDialOptions(Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean)</td>
<td>Initializes a new instance of the <a href="#">RasDialOptions</a> class.</td>
</tr>
<tr>
<td>RasDialOptions(Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean)</td>
<td>Initializes a new instance of the <a href="#">RasDialOptions</a> class.</td>
</tr>
</tbody>
</table>
See Also

- RasDialOptions Class
- RasDialOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Initializes a new instance of the **RasDialOptions** class.

**Namespace**: DotRas  
**Assembly**: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th><strong>Syntax</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><code>public</code> RasDialOptions()</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
</tr>
<tr>
<td><code>public:</code> RasDialOptions()</td>
</tr>
<tr>
<td><strong>F#</strong></td>
</tr>
<tr>
<td><code>new : unit -&gt; RasDialOptions</code></td>
</tr>
</tbody>
</table>
See Also

RasDialOptions Class
RasDialOptions Members
RasDialOptions Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptions Constructor (Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean)

See Also: RasDialOptions Class
See Also: Send Feedback

Initializes a new instance of the RasDialOptions class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasDialOptions(
    bool usePrefixSuffix,
    bool pausedStates,
    bool setModemSpeaker,
    bool setSoftwareCompression,
    bool disableConnectedUI,
    bool disableReconnectUI,
    bool disableReconnect,
    bool noUser,
    bool router,
    bool customDial
)
```

#### Visual Basic

```vbnet
Public Sub New (  
    usePrefixSuffix As Boolean,
    pausedStates As Boolean,
    setModemSpeaker As Boolean,
    setSoftwareCompression As Boolean,
    disableConnectedUI As Boolean,
    disableReconnectUI As Boolean,
    disableReconnect As Boolean,
    noUser As Boolean,
    router As Boolean,
    customDial As Boolean
)
```

#### Visual C++

```csharp
public:
RasDialOptions(
    bool usePrefixSuffix,
```
```fsharp
new :
    usePrefixSuffix :  bool *
    pausedStates :  bool *
    setModemSpeaker :  bool *
    setSoftwareCompression :  bool *
    disableConnectedUI :  bool *
    disableReconnectUI :  bool *
    disableReconnect :  bool *
    noUser :  bool *
    router :  bool *
    customDial :  bool -> RasDialOptions
```

**Parameters**

*usePrefixSuffix*  
Type: *System.Boolean*  
**true** if the prefix and suffix that is in the phone book should be used, otherwise **false**.

*pausedStates*  
Type: *System.Boolean*  
**true** if paused states should be accepted, otherwise **false**.

*setModemSpeaker*  
Type: *System.Boolean*  
**true** if the modem speaker should be set, otherwise **false**.
*setSoftwareCompression*
Type: System.Boolean
**true** if software compression should be set, otherwise **false**.

*disableConnectedUI*
Type: System.Boolean
**true** if the connected user interface should be disabled, otherwise **false**.

*disableReconnectUI*
Type: System.Boolean
**true** if the reconnect user interface should be disabled, otherwise **false**.

*disableReconnect*
Type: System.Boolean
**true** if reconnect should be disabled, otherwise **false**.

*noUser*
Type: System.Boolean
**true** if no user is present, otherwise **false**.

*router*
Type: System.Boolean
**true** if the connecting device is a router, otherwise **false**.

*customDial*
Type: System.Boolean
**true** if the connection should be dialed normally rather than calling the custom dial entry point of the custom dialer, otherwise **false**.
See Also

- RasDialOptions Class
- RasDialOptions Members
- RasDialOptions Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptions Constructor (Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean, Boolean)

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasDialOptions(
    bool usePrefixSuffix,
    bool pausedStates,
    bool setModemSpeaker,
    bool setSoftwareCompression,
    bool disableConnectedUI,
    bool disableReconnectUI,
    bool disableReconnect,
    bool noUser,
    bool router,
    bool customDial,
    bool useCustomScripting
)
```

#### Visual Basic

```vbnet
Public Sub New (
    usePrefixSuffix As Boolean,
    pausedStates As Boolean,
    setModemSpeaker As Boolean,
    setSoftwareCompression As Boolean,
    disableConnectedUI As Boolean,
    disableReconnectUI As Boolean,
    disableReconnect As Boolean,
    noUser As Boolean,
    router As Boolean,
    customDial As Boolean,
    useCustomScripting As Boolean
)
```

#### Visual C++

```cpp
public:
```
RasDialOptions(
    bool usePrefixSuffix,
    bool pausedStates,
    bool setModemSpeaker,
    bool setSoftwareCompression,
    bool disableConnectedUI,
    bool disableReconnectUI,
    bool disableReconnect,
    bool noUser,
    bool router,
    bool customDial,
    bool useCustomScripting
)

F#

new :
    usePrefixSuffix : bool *
    pausedStates : bool *
    setModemSpeaker : bool *
    setSoftwareCompression : bool *
    disableConnectedUI : bool *
    disableReconnectUI : bool *
    disableReconnect : bool *
    noUser : bool *
    router : bool *
    customDial : bool *
    useCustomScripting : bool -> RasDialOptions

Parameters

usePrefixSuffix
Type: System.Boolean
true if the prefix and suffix that is in the phone book should be used, otherwise false.

pausedStates
Type: System.Boolean
true if paused states should be accepted, otherwise false.
setModemSpeaker
Type: System.Boolean
true if the modem speaker should be set, otherwise false.

setSoftwareCompression
Type: System.Boolean
true if software compression should be set, otherwise false.

disableConnectedUI
Type: System.Boolean
true if the connected user interface should be disabled, otherwise false.

disableReconnectUI
Type: System.Boolean
true if the reconnect user interface should be disabled, otherwise false.

disableReconnect
Type: System.Boolean
true if reconnect should be disabled, otherwise false.

noUser
Type: System.Boolean
true if no user is present, otherwise false.

router
Type: System.Boolean
true if the connecting device is a router, otherwise false.

customDial
Type: System.Boolean
true if the connection should be dialed normally rather than calling the custom dial entry point of the custom dialer, otherwise false.

useCustomScripting
Type: System.Boolean
true if the dialer should invoke a custom-scripting DLL after establishing the connection to the server, otherwise false.
See Also

RasDialOptions Class
RasDialOptions Members
RasDialOptions Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasDialOptions** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
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<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
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<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
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</tbody>
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See Also

RasDialOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasDialOptions** type exposes the following members.
### Properties

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomDial</td>
<td>Gets or sets a value indicating whether to dial normally instead of calling the custom dial entry point of the custom dialer.</td>
</tr>
<tr>
<td>DisableConnectedUI</td>
<td>Gets or sets a value indicating whether to disable the connected user interface.</td>
</tr>
<tr>
<td>DisableReconnect</td>
<td>Gets or sets a value indicating whether to disable reconnect.</td>
</tr>
<tr>
<td>DisableReconnectUI</td>
<td>Gets or sets a value indicating whether to disable the reconnect user interface.</td>
</tr>
<tr>
<td>NoUser</td>
<td>Gets or sets a value indicating whether no user is present.</td>
</tr>
<tr>
<td>PausedStates</td>
<td>Gets or sets a value indicating whether to accept paused states.</td>
</tr>
<tr>
<td>Router</td>
<td>Gets or sets a value indicating whether the connecting device is a router.</td>
</tr>
<tr>
<td>SetModemSpeaker</td>
<td>Gets or sets a value indicating whether to set the modem speaker.</td>
</tr>
<tr>
<td>SetSoftwareCompression</td>
<td>Gets or sets a value indicating whether to enable software compression.</td>
</tr>
<tr>
<td>UseCustomScripting</td>
<td>Gets or sets a value indicating whether the dialer should invoke a custom-scripting DLL after establishing the connection to the server.</td>
</tr>
<tr>
<td>UsePrefixSuffix</td>
<td>Gets or sets a value indicating whether the prefix and suffix that is in the phone book should be used.</td>
</tr>
</tbody>
</table>
See Also

- RasDialOptions Class
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether to dial normally instead of calling the custom dial entry point of the custom dialer.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
</tbody>
</table>
| ```
public bool CustomDial { get; set; }
``` |   |
| **Visual Basic** |   |
| ```
Public Property CustomDial As Boolean
    Get
    Set
``` |   |
| **Visual C++** |   |
| ```
public:
    property bool CustomDial {
        bool get();
        void set (bool value);
    }
``` |   |
| **F#** |   |
| ```
member CustomDial : bool with get, set
``` |   |

### Property Value

Type: [Boolean](#)
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptions.DisableConnectedUI Property

Gets or sets a value indicating whether to disable the connected user interface.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public bool DisableConnectedUI { get; set; }</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public Property DisableConnectedUI As Boolean Get Set</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: property bool DisableConnectedUI { bool get (); void set (bool value); }</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>member DisableConnectedUI : bool with get, set</code></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

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RasDialOptions.DisableReconnect Property

Gets or sets a value indicating whether to disable reconnect.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public bool DisableReconnect { get; set; }</code></td>
</tr>
</tbody>
</table>
| Visual Basic   | `Public Property DisableReconnect As Boolean
Get
Set`                                                             |
| Visual C++     | `public:
property bool DisableReconnect {
    bool get ();
    void set (bool value);
}                                                             |
| F#             | `member DisableReconnect : bool with get, set`                     |

**Property Value**

Type: [Boolean](#)
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptions.DisableReconnectUI Property

Gets or sets a value indicating whether to disable the reconnect user interface.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool DisableReconnectUI { get; set; }
```

**Visual Basic**

```vbnet
Public Property DisableReconnectUI As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool DisableReconnectUI {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member DisableReconnectUI : bool with get, set
```

### Property Value

Type: Boolean
See Also

- RasDialOptions Class
- RasDialOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptions.NoUser Property

Gets or sets a value indicating whether no user is present.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
# Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public bool NoUser { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property NoUser As Boolean Get Set</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property bool NoUser {</td>
</tr>
<tr>
<td>bool get ();</td>
</tr>
<tr>
<td>void set (bool value);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>member NoUser : bool with get, set</td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Boolean](https://en.wikipedia.org/wiki/Boolean)
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

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RasDialOptions.PausedStates Property

Gets or sets a value indicating whether to accept paused states.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public bool PausedStates { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
</table>
| Public Property PausedStates As Boolean  
Get  
Set |

<table>
<thead>
<tr>
<th><strong>Visual C++</strong></th>
</tr>
</thead>
</table>
| public:  
property bool PausedStates {  
    bool get();  
    void set (bool value);  
} |

<table>
<thead>
<tr>
<th><strong>F#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>member PausedStates : bool with get, set</td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Boolean](#)
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the connecting device is a router.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public bool Router { get; set; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Property Router As Boolean Get Set</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property bool Router { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member Router : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: Boolean
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptions.SetModemSpeaker Property

Gets or sets a value indicating whether to set the modem speaker.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><code>public bool SetModemSpeaker { get; set; }</code></td>
<td><code>Public Property SetModemSpeaker As Boolean</code></td>
<td>`public: property bool SetModemSpeaker {</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>`        Get</td>
<td><code>                                       bool get ();</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>`        Set</td>
<td><code>                                       void set (bool value);</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><code>}</code></td>
<td><code>member SetModemSpeaker : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether to enable software compression.

**Namespace:** [DotRas](https://example.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool SetSoftwareCompression { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property SetSoftwareCompression As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool SetSoftwareCompression { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member SetSoftwareCompression : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

- RasDialOptions Class
- RasDialOptions Members
- DotRas Namespace
RasDialOptions.UseCustomScripting Property

Gets or sets a value indicating whether the dialer should invoke a custom-scripting DLL after establishing the connection to the server.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool UseCustomScripting { get; set; }
```

**Visual Basic**

```vbnet
Public Property UseCustomScripting As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
property bool UseCustomScripting {
    bool get ();
    void set (bool value);
}
```

**F#**

```fsharp
member UseCustomScripting : bool with get, set
```

### Property Value

Type: [Boolean](#)
Remarks

Windows XP and later: This property is available.
See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptions.UsePrefixSuffix Property

Gets or sets a value indicating whether the prefix and suffix that is in the phone book should be used.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool UsePrefixSuffix { get; set; }
```

**Visual Basic**

```vbnet
Public Property UsePrefixSuffix As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool UsePrefixSuffix {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member UsePrefixSuffix : bool with get, set
```

### Property Value

Type: [Boolean](#)

See Also

RasDialOptions Class
RasDialOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter Class

Provides methods to convert a RasDialOptions instance from one data type to another. Access this class through the TypeDescriptor object.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public class RasDialOptionsConverter : TypeConverter</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Class RasDialOptionsConverter</td>
</tr>
<tr>
<td></td>
<td>Inherits TypeConverter</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public ref class RasDialOptionsConverter : public TypeConverter</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>type RasDialOptionsConverter =</td>
</tr>
<tr>
<td></td>
<td>class</td>
</tr>
<tr>
<td></td>
<td>inherit TypeConverter</td>
</tr>
<tr>
<td></td>
<td>end</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

- `System.Object`
- `System.ComponentModel.TypeConverter`
- `DotRas.RasDialOptionsConverter`
See Also

RasDialOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasDialOptionsConverter` type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasDialOptionsConverter</td>
<td>Initializes a new instance of the RasDialOptionsConverter class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CanConvertFrom(Type)</strong></td>
<td>Returns whether the given type to the type of this converter. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td><strong>CanConvertFrom(ITypeDescriptorContext, Type)</strong></td>
<td>Indicates whether the given type to the type of this converter. (Overrides TypeConverter.CanConvertFrom(ITypeDescriptorContext, Type))</td>
</tr>
<tr>
<td><strong>CanConvertTo(Type)</strong></td>
<td>Returns whether the given object can be converted to the specified type. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td><strong>CanConvertTo(ITypeDescriptorContext, Type)</strong></td>
<td>Indicates whether the given object can be converted to the specified type, using the specified context. (Overrides TypeConverter.CanConvertTo(ITypeDescriptorContext, Type))</td>
</tr>
<tr>
<td><strong>ConvertFrom(Object)</strong></td>
<td>Converts the given value to the type of this converter. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td><strong>ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</strong></td>
<td>Converts the given object to the type of this converter, using the specified context and culture information. (Overrides TypeConverter.ConvertFrom(CultureInfo, Object))</td>
</tr>
<tr>
<td><strong>ConvertFromInvariantString(String)</strong></td>
<td>Converts the given string to the type of this converter, using the invariant culture. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td><strong>ConvertFromInvariantString(ITypeDescriptorContext, String)</strong></td>
<td>Converts the given string to the type of this converter, using the invariant culture and the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td><strong>ConvertFromString(String)</strong></td>
<td>Converts the specified text to an object. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td><strong>ConvertFromString(ITypeDescriptorContext, String)</strong></td>
<td>Converts the given text to an object, using the specified context. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td><strong>ConvertFromString(ITypeDescriptorContext, CultureInfo, String)</strong></td>
<td>Converts the given text to an object, using the specified context and culture information. (Inherited from TypeConverter)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>ConvertTo(Object, Type)</strong></td>
<td>Converts the given value object to the specified type. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</strong></td>
<td>Converts the given value object to the specified type, using the specified context and culture information. (Overrides <code>TypeConverter.ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</code>)</td>
</tr>
<tr>
<td><strong>ConvertToInvariantString(Object)</strong></td>
<td>Converts the specified value to a culture-invariant string representation. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>ConvertToInvariantString(ITypeDescriptorContext, Object)</strong></td>
<td>Converts the specified value to a culture-invariant string representation, using the specified context. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>ConvertToString(Object)</strong></td>
<td>Converts the specified value to a string representation. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>ConvertToString(ITypeDescriptorContext, Object)</strong></td>
<td>Converts the given value to a string representation, using the given context. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>ConvertToString(ITypeDescriptorContext, CultureInfo, Object)</strong></td>
<td>Converts the given value to a string representation, using the specified context and culture information. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>CreateInstance(IDictionary)</strong></td>
<td>Re-creates an <code>Object</code>. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>CreateInstance(ITypeDescriptorContext, IDictionary)</strong></td>
<td>Creates an instance of the type that this associated with, using the property values for the object. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <code>Object</code> is equal to the current instance. (Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to perform cleanup operations before it is reclaimed by garbage collection. (Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><strong>GetConvertFromException</strong></td>
<td>Returns an exception to throw when a conversion cannot be performed. (Inherited from <code>Type</code>)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>GetConvertToException</td>
<td>Returns an exception to throw when a conversion cannot be performed. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetCreateInstanceSupported()</td>
<td>Returns whether changing a value on this object requires a call to CreateInstance(). (Inherited from Ty)</td>
</tr>
<tr>
<td>GetCreateInstanceSupported(ITypeDescriptorContext)</td>
<td>Returns whether changing a value on this object requires a call to CreateInstance(IDictionary) specified context. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetProperties(Object)</td>
<td>Returns a collection of properties for the value parameter. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object)</td>
<td>Returns a collection of properties for the value parameter, using the specified context. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object, Attribute[])</td>
<td>Returns a collection of properties for the value parameter, using the specified context. (Overrides TypeConverter.GetProperties(ITypeDescriptorContext, Object, Attribute[]))</td>
</tr>
<tr>
<td>GetPropertiesSupported()</td>
<td>Returns whether this object supports properties. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetPropertiesSupported(ITypeDescriptorContext)</td>
<td>Indicates whether this object supports properties, using the specified context. (Overrides TypeConverter.GetPropertiesSupported(ITypeDescriptorContext))</td>
</tr>
<tr>
<td>GetStandardValues()</td>
<td>Returns a collection of standard values for the data type this type converter is designed for. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetStandardValues(ITypeDescriptorContext)</td>
<td>Returns a collection of standard values for the data type this type converter is designed for, using the specified context. (Inherited from Ty)</td>
</tr>
<tr>
<td>GetStandardValuesExclusive()</td>
<td>Returns whether the collection of standard values returned from GetStandardValues is exclusive. (Inherited from Ty)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>GetStandardValuesExclusive(ITypeDescriptorContext)</code></td>
<td>Returns whether the specified context supports standard values for the type.</td>
</tr>
<tr>
<td><code>GetStandardValuesSupported()</code></td>
<td>Returns whether the current object supports standard values for the type.</td>
</tr>
<tr>
<td><code>GetStandardValuesSupported(ITypeDescriptorContext)</code></td>
<td>Returns whether the specified context supports standard values for the type.</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>Gets the Type of the current instance.</td>
</tr>
<tr>
<td><code>IsValid(Object)</code></td>
<td>Returns whether the given value object is valid for this type.</td>
</tr>
<tr>
<td><code>IsValid(ITypeDescriptorContext, Object)</code></td>
<td>Returns whether the given value object is valid for this type and context.</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>Creates a shallow copy of the current instance.</td>
</tr>
<tr>
<td><code>SortProperties</code></td>
<td>Sorts a collection of properties.</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a string that represents the current object.</td>
</tr>
</tbody>
</table>
See Also

RasDialOptionsConverter Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter Constructor

Initializes a new instance of the RasDialOptionsConverter class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasDialOptionsConverter()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasDialOptionsConverter()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; RasDialOptionsConverter</code></td>
</tr>
</tbody>
</table>
See Also

- RasDialOptionsConverter Class
- RasDialOptionsConverter Members
- DotRas Namespace

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The **RasDialOptionsConverter** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon.png" alt="Image" /> CanConvertFrom(Type)</td>
<td>Returns whether the type to the type of this converter. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> CanConvertFrom(ITypeDescriptorContext, Type)</td>
<td>Indicates whether the type to the type of this converter. (Overrides <code>TypeConverter.CanConvertFrom(ITypeDescriptorContext, Type)</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> CanConvertTo(Type)</td>
<td>Returns whether the specified type. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> CanConvertTo(ITypeDescriptorContext, Type)</td>
<td>Indicates whether the specified type, using the specified context. (Overrides <code>TypeConverter.CanConvertTo(ITypeDescriptorContext, Type)</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> ConvertFrom(Object)</td>
<td>Converts the given object to the type of this converter. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</td>
<td>Converts the given object to the type of this converter, using the specified context and culture information. (Overrides <code>TypeConverter.ConvertFrom(CultureInfo, Object)</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> ConvertFromInvariantString(String)</td>
<td>Converts the given string to the type of this converter, using the invariant culture. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> ConvertFromInvariantString(ITypeDescriptorContext, String)</td>
<td>Converts the given string to the type of this converter, using the invariant culture and the specified context. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> ConvertFromString(String)</td>
<td>Converts the specified text to an object. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> ConvertFromString(ITypeDescriptorContext, String)</td>
<td>Converts the given text to an object, using the specified context. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td><img src="icon.png" alt="Image" /> ConvertFromString(CultureInfo, String)</td>
<td>Converts the given text to an object, using the specified context and culture information. (Inherited from <code>Ty</code> )</td>
</tr>
<tr>
<td>Method Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>ConvertTo(Object, Type)</strong></td>
<td>Converts the given value object to the specified type. (Inherited from <strong>TypeConverter</strong>)</td>
</tr>
<tr>
<td><strong>ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</strong></td>
<td>Converts the given value object to the specified type, using the specified context and culture information. (Overrides <strong>TypeConverter</strong>.<strong>ConvertTo(ITypeDescriptorContext, CultureInfo, Object)</strong>)</td>
</tr>
<tr>
<td><strong>ConvertToInvariantString(Object)</strong></td>
<td>Converts the specified value to a culture-invariant string representation. (Inherited from <strong>TypeConverter</strong>)</td>
</tr>
<tr>
<td><strong>ConvertToInvariantString(ITypeDescriptorContext, Object)</strong></td>
<td>Converts the specified value to a culture-invariant string representation, using the specified context. (Inherited from <strong>TypeConverter</strong>.<strong>ConvertToInvariantString(ITypeDescriptorContext, Object)</strong>)</td>
</tr>
<tr>
<td><strong>ConvertToString(Object)</strong></td>
<td>Converts the specified value to a string representation. (Inherited from <strong>TypeConverter</strong>)</td>
</tr>
<tr>
<td><strong>ConvertToString(ITypeDescriptorContext, Object)</strong></td>
<td>Converts the given value to a string representation, using the given context. (Inherited from <strong>TypeConverter</strong>.<strong>ConvertToString(ITypeDescriptorContext, Object)</strong>)</td>
</tr>
<tr>
<td><strong>ConvertToString(ITypeDescriptorContext, CultureInfo, Object)</strong></td>
<td>Converts the given value to a string representation, using the specified context and culture information. (Inherited from <strong>TypeConverter</strong>.<strong>ConvertToString(ITypeDescriptorContext, CultureInfo, Object)</strong>)</td>
</tr>
<tr>
<td><strong>CreateInstance(IDictionary)</strong></td>
<td>Re-creates an object. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>CreateInstance(ITypeDescriptorContext, IDictionary)</strong></td>
<td>Creates an instance of the type that this associated with, using a set of property values for the object. (Inherited from <strong>TypeConverter</strong>.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether two objects are equal. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>GetConvertFromException</strong></td>
<td>Returns an exception to throw when a conversion cannot be performed. (Inherited from <strong>TypeConverter</strong>.)</td>
</tr>
<tr>
<td>Method Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GetConvertToException</td>
<td>Returns an exception to throw when a conversion cannot be performed.</td>
</tr>
<tr>
<td>GetCreateInstanceSupported()</td>
<td>Returns whether changing a value on this object requires a call to CreateInstance.</td>
</tr>
<tr>
<td>GetCreateInstanceSupported(ITypeDescriptorContext)</td>
<td>Returns whether changing a value on this object requires a call to CreateInstance(IDictionary) specified context.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type.</td>
</tr>
<tr>
<td>GetProperties(Object)</td>
<td>Returns a collection of properties for the type specified by the value parameter.</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object)</td>
<td>Returns a collection of properties for the type specified by the value parameter, using the specified context.</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object, Attribute[])</td>
<td>Returns a collection of properties for the type specified by the value parameter, using the specified context.</td>
</tr>
<tr>
<td>GetPropertiesSupported()</td>
<td>Returns whether this object supports properties.</td>
</tr>
<tr>
<td>GetPropertiesSupported(ITypeDescriptorContext)</td>
<td>Indicates whether this object supports properties, using the specified context.</td>
</tr>
<tr>
<td>GetStandardValues()</td>
<td>Returns a collection of standard values from the default context for the data type this type converter is designed for.</td>
</tr>
<tr>
<td>GetStandardValues(ITypeDescriptorContext)</td>
<td>Returns a collection of standard values for the data type this type converter is designed for when provided with a format context.</td>
</tr>
<tr>
<td>GetStandardValuesExclusive()</td>
<td>Returns whether the collection of standard values returned from GetStandardValues is exclusive.</td>
</tr>
<tr>
<td>Method</td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td></td>
</tr>
<tr>
<td>GetStandardValuesExclusive(ITypeDescriptorContext)</td>
<td></td>
</tr>
<tr>
<td>GetStandardValuesSupported()</td>
<td></td>
</tr>
<tr>
<td>GetStandardValuesSupported(ITypeDescriptorContext)</td>
<td></td>
</tr>
<tr>
<td>GetType</td>
<td></td>
</tr>
<tr>
<td>IsValid(Object)</td>
<td></td>
</tr>
<tr>
<td>IsValid(ITypeDescriptorContext, Object)</td>
<td></td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td></td>
</tr>
<tr>
<td>SortProperties</td>
<td></td>
</tr>
<tr>
<td>ToString</td>
<td></td>
</tr>
</tbody>
</table>

- Returns whether the specified context.
- Returns whether the specified context.
- Returns whether the specified context.
- Gets the Type of the current instance.
- Returns whether the given value object is valid for this type.
- Returns whether the given value object is valid for this type and for the specified context.
- Creates a shallow copy of the current instance.
- Sorts a collection.
- Returns a string that represents the current object.
See Also

RasDialOptionsConverter Class
DotRas Namespace

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RasDialOptionsConverter.CanConvertFrom Method

RasDialOptionsConverter Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CanConvertFrom(Type)</code></td>
<td>Returns whether this converter can convert an object of the given type to the type of this converter. (Inherited from <code>TypeConverter</code>.)</td>
</tr>
<tr>
<td><code>CanConvertFrom(ITypeDescriptorContext, Type)</code></td>
<td>Indicates whether this converter can convert an object of a given type to the type of this converter. (Overrides <code>TypeConverter.CanConvertFrom(Type)</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
DotRas Namespace
RasDialOptionsConverter.CanConvertFrom Method
(ITypeDescriptorContext, Type)
RasDialOptionsConverter Class  See Also  Send Feedback

Indicates whether this converter can convert an object of a given type to the type of this converter.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public override bool CanConvertFrom(ITypeDescriptorContext context, Type sourceType)
```

**Visual Basic**

```vbnet
Public Overrides Function CanConvertFrom (context As ITypeDescriptorContext, sourceType As Type) As Boolean
```

**Visual C++**

```cpp
public: virtual bool CanConvertFrom(ITypeDescriptorContext^ context, Type^ sourceType) override
```

**F#**

```fsharp
abstract CanConvertFrom : context : ITypeDescriptorContext * sourceType : Type -> bool
override CanConvertFrom : context : ITypeDescriptorContext * sourceType : Type -> bool
```

### Parameters

*context*

Type: `System.ComponentModel.ITypeDescriptorContext`
An `ITypeDescriptorContext` that provides a format context.

`sourceType`
Type: `System.Type`
A `Type` that represents the type you want to convert from.

**Return Value**
Type: `Boolean`
`true` if this converter can perform the conversion, otherwise `false`.
See Also

- RasDialOptionsConverter Class
- RasDialOptionsConverter Members
- CanConvertFrom Overload
- DotRas Namespace

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RasDialOptionsConverter.CanConvertTo Method

RasDialOptionsConverter Class  See Also  Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanConvertTo(Type)</td>
<td>Returns whether this converter can convert the object to the specified type. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>CanConvertTo(ITypeDescriptorContext, Type)</td>
<td>Indicates whether this converter can convert the object to the specified type, using the specified context. (Overrides TypeConverter.CanConvertTo(IType).)</td>
</tr>
</tbody>
</table>
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Indicates whether this converter can convert the object to the specified type, using the specified context.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public override bool CanConvertTo(
    ITypeDescriptorContext context,
    Type destinationType
)
```

### Visual Basic

```vbnet
Public Overrides Function CanConvertTo (    context As ITypeDescriptorContext,
    destinationType As Type
) As Boolean
```

### Visual C++

```cpp
public:
    virtual bool CanConvertTo(
        ITypeDescriptorContext^ context,
        Type^ destinationType
    ) override
```

### F#

```fsharp
abstract CanConvertTo :
    context : ITypeDescriptorContext *
    destinationType : Type -> bool
override CanConvertTo :
    context : ITypeDescriptorContext *
    destinationType : Type -> bool
```

## Parameters

- **context**
  - Type: `System.ComponentModel.ITypeDescriptorContext`
An ITypeDescriptorContext that provides a format context.

destinationType
Type: System.Type
A Type that represents the type you want to convert to.

Return Value
Type: Boolean
true if this converter can perform the conversion, otherwise false.
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
CanConvertTo Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter.ConvertFrom Method

RasDialOptionsConverter Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConvertFrom(Object)</td>
<td>Converts the given value to the type of this converter. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</td>
<td>Converts the given object to the type of this converter, using the specified context and culture. (Overrides TypeConverter.ConvertFrom(ITypeDescriptorContext, CultureInfo, Object).)</td>
</tr>
</tbody>
</table>
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter.ConvertFrom Method
(ITypeDescriptorContext, CultureInfo, Object)

Converts the given object to the type of this converter, using the specified context and culture information.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public override Object ConvertFrom(
    ITypeDescriptorContext context,
    CultureInfo culture,
    Object value
)
``` |
| **Visual Basic** | ```
Public Overrides Function ConvertFrom ( 
    context As ITypeDescriptorContext,
    culture As CultureInfo,
    value As Object
) As Object
``` |
| **Visual C++** | ```
public:
    virtual Object^ ConvertFrom(
        ITypeDescriptorContext^ context,
        CultureInfo^ culture,
        Object^ value
    ) override
``` |
| **F#** | ```
abstract ConvertFrom :
    context : ITypeDescriptorContext *
    culture : CultureInfo *
    value : Object -> Object
override ConvertFrom :
    context : ITypeDescriptorContext *
    culture : CultureInfo *
    value : Object -> Object
``` |
Parameters

context
Type: System.ComponentModel.ITypeDescriptorContext
An ITypeDescriptorContext that provides a format context.

culture
Type: System.Globalization.CultureInfo
The CultureInfo to use as the current culture.

value
Type: System.Object
The Object to convert.

Return Value
Type: Object
An Object that represents the converted value.
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
ConvertFrom Overload
DotRas Namespace

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## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ConvertTo(Object, Type)</code></td>
<td>Converts the given value object to the specified type, using the arguments. (Inherited from <code>TypeConverter</code>.)</td>
</tr>
<tr>
<td><code>ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</code></td>
<td>Converts the given value object to the specified type, using the specified context and culture information. (Overrides <code>TypeConverter.ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter.ConvertTo Method (ITypeDescriptorContext, CultureInfo, Object, Type)

Converts the given value object to the specified type, using the specified context and culture information.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public override Object ConvertTo(
    ITypeDescriptorContext context,
    CultureInfo culture,
    Object value,
    Type destinationType)
```

#### Visual Basic

```vbnet
Public Overrides Function ConvertTo (    
    context As ITypeDescriptorContext,    
    culture As CultureInfo,    
    value As Object,    
    destinationType As Type
) As Object
```

#### Visual C++

```cpp
public:    
    virtual Object^ ConvertTo(    
        ITypeDescriptorContext^ context,    
        CultureInfo^ culture,    
        Object^ value,    
        Type^ destinationType    
    ) override
```

#### F#

```fsharp
abstract ConvertTo :    
    context : ITypeDescriptorContext *    
    culture : CultureInfo *    
    value : Object *    
    destinationType : Type -> Object
```
override ConvertTo :
    context : ITypeDescriptorContext *
    culture : CultureInfo *
    value : Object *
    destinationType : Type -> Object

Parameters

context
Type: System.ComponentModel.ITypeDescriptorContext
An ITypeDescriptorContext that provides a format context.

culture
Type: System.Globalization.CultureInfo
The CultureInfo to use as the current culture.

value
Type: System.Object
The Object to convert.

destinationType
Type: System.Type
The Type to convert the value parameter to.

Return Value
Type: Object
An Object that represents the converted value.
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
ConvertTo Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter.GetProperties Method
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetterProperties(Object)</td>
<td>Returns a collection of properties specified by the value parameter.</td>
</tr>
<tr>
<td>(Inherited from TypeConverter)</td>
<td></td>
</tr>
<tr>
<td>GetterProperties(ITypeDescriptorContext, Object)</td>
<td>Returns a collection of properties specified by the value parameter, using context.</td>
</tr>
<tr>
<td>(Inherited from TypeConverter)</td>
<td></td>
</tr>
<tr>
<td>GetterProperties(ITypeDescriptorContext, Object, Attribute[])</td>
<td>Returns a collection of properties specified by the value parameter, using context.</td>
</tr>
<tr>
<td>(Overrides TypeConverter.GetProperties(ITypeDescriptorContext, Object, Attribute[]))</td>
<td></td>
</tr>
</tbody>
</table>
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter.GetProperties Method
(ITypeDescriptorContext, Object, Attribute[])
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public override PropertyDescriptorCollection GetProperties(ITypeDescriptorContext context, Object value, Attribute[] attributes)</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Overrides Function GetProperties (context As ITypeDescriptorContext, value As Object, attributes As Attribute()) As PropertyDescriptorCollection</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: virtual PropertyDescriptorCollection^ GetProperties(ITypeDescriptorContext^ context, Object^ value, array&lt;Attribute^&gt;^ attributes) override</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>abstract GetProperties : context : ITypeDescriptorContext * value : Object * attributes : Attribute[] -&gt; PropertyDescriptorCollection override GetProperties : context : ITypeDescriptorContext * value : Object * attributes : Attribute[] -&gt; PropertyDescriptorCollection</code></td>
</tr>
</tbody>
</table>
**Parameters**

*context*
Type: System.ComponentModel.ITypeDescriptorContext
An ITypeDescriptorContext that provides a format context.

*value*
Type: System.Object
An Object that specifies the type of array for which to get properties.

*attributes*
Type: System.Attribute[]
An array of attributes that is used as a filter.

**Return Value**
Type: PropertyDescriptorCollection
A PropertyDescriptorCollection with the properties that are exposed for this data type, or a null reference (Nothing in Visual Basic) if there are no properties.
See Also

- RasDialOptionsConverter Class
- RasDialOptionsConverter Members
- GetProperties Overload
- DotRas Namespace

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RasDialOptionsConverter.GetPropertiesSupported Method

RasDialOptionsConverter Class  See Also  Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetPropertiesSupported()</td>
<td>Returns whether this object supports properties.</td>
</tr>
<tr>
<td>GetPropertiesSupported(ITypeDescriptorContext)</td>
<td>Indicates whether this object supports properties, using the specified context. (Overrides TypeConverter.GetPropertiesSupported(ITypeDescriptorContext))</td>
</tr>
</tbody>
</table>
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasDialOptionsConverter.GetPropertiesSupported Method (ITypeDescriptorContext)

Indicates whether this object supports properties, using the specified context.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public override bool GetPropertiesSupported(ITypeDescriptorContext context)
```

**Visual Basic**

```vbnet
Public Overrides Function GetPropertiesSupported (context As ITypeDescriptorContext) As Boolean
```

**Visual C++**

```cpp
public:
virtual bool GetPropertiesSupported(ITypeDescriptorContext^ context)
```

**F#**

```fsharp
abstract GetPropertiesSupported : context : ITypeDescriptorContext -> bool
override GetPropertiesSupported : context : ITypeDescriptorContext -> bool
```

### Parameters

*context*

Type: `System.ComponentModel.ITypeDescriptorContext`

An `ITypeDescriptorContext` that provides a format context.

### Return Value

Type: `Boolean`
true if `GetProperties(ITypeDescriptorContext, Object, Attribute[])` should be called to find the properties of this object, otherwise `false`. 
See Also

RasDialOptionsConverter Class
RasDialOptionsConverter Members
GetPropertiesSupported Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptions Class

Represents extensible authentication protocol (EAP) options for dialing a remote access service (RAS) entry. This class cannot be inherited.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
</tbody>
</table>
| ```csharp
[SerializableAttribute]
[TypeConverterAttribute(typeof(RasEapOptionsConverter))]
public sealed class RasEapOptions
``` |  |
| **Visual Basic** |  |
| ```vbscript
<SerializableAttribute>
<TypeConverterAttribute(GetType(RasEapOptionsConverter))>
Public NotInheritable Class RasEapOptions
``` |  |
| **Visual C++** |  |
| ```c++
[SerializableAttribute]
[TypeConverterAttribute(typeof(RasEapOptionsConverter))]
public ref class RasEapOptions sealed
``` |  |
| **F#** |  |
| ```fsharp
[<SealedAttribute>]
[<SerializableAttribute>]
[<TypeConverterAttribute(typeof(RasEapOptionsConverter))>
type RasEapOptions = class end
``` |  |
Inheritance Hierarchy

System.Object
DotRas.RasEapOptions
See Also

RasEapOptions Members
DotRas Namespace

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The **RasEapOptions** type exposes the following members.
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEapOptions()</td>
<td>Initializes a new instance of the RasEapOptions class.</td>
</tr>
<tr>
<td>RasEapOptions(Boolean, Boolean, Boolean)</td>
<td>Initializes a new instance of the RasEapOptions class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
</table>
# Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LogOn</td>
<td>Gets or sets a value indicating whether the user data is obtained from WinLogon.</td>
</tr>
<tr>
<td>NonInteractive</td>
<td>Gets or sets a value indicating whether the authentication protocol should not display a graphical user interface.</td>
</tr>
<tr>
<td>Preview</td>
<td>Gets or sets a value indicating whether the user should be prompted for identity information before dialing.</td>
</tr>
</tbody>
</table>
See Also

RasEapOptions Class
DotRas Namespace

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RasEapOptions Constructor

See Also
Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEapOptions()</td>
<td>Initializes a new instance of the RasEapOptions class.</td>
</tr>
<tr>
<td>RasEapOptions(Boolean, Boolean, Boolean)</td>
<td>Initializes a new instance of the RasEapOptions class.</td>
</tr>
</tbody>
</table>
See Also

RasEapOptions Class
RasEapOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptions Constructor

RasEapOptions class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public RasEapOptions()</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Sub New</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: RasEapOptions()</td>
</tr>
<tr>
<td>F#</td>
<td>new : unit -&gt; RasEapOptions</td>
</tr>
</tbody>
</table>
See Also

- RasEapOptions Class
- RasEapOptions Members
- RasEapOptions Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptions Constructor (Boolean, Boolean, Boolean)

Initializes a new instance of the RasEapOptions class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>`public RasEapOptions(</td>
</tr>
<tr>
<td></td>
<td>bool nonInteractive,</td>
</tr>
<tr>
<td></td>
<td>bool logOn,</td>
</tr>
<tr>
<td></td>
<td>bool preview)</td>
</tr>
<tr>
<td></td>
<td>)</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>`Public Sub New (</td>
</tr>
<tr>
<td></td>
<td>nonInteractive As Boolean,</td>
</tr>
<tr>
<td></td>
<td>logOn As Boolean,</td>
</tr>
<tr>
<td></td>
<td>preview As Boolean</td>
</tr>
<tr>
<td></td>
<td>)</td>
</tr>
<tr>
<td>Visual C++</td>
<td>`public: RasEapOptions(</td>
</tr>
<tr>
<td></td>
<td>bool nonInteractive,</td>
</tr>
<tr>
<td></td>
<td>bool logOn,</td>
</tr>
<tr>
<td></td>
<td>bool preview)</td>
</tr>
<tr>
<td></td>
<td>)</td>
</tr>
<tr>
<td>F#</td>
<td>`new :</td>
</tr>
<tr>
<td></td>
<td>nonInteractive : bool *</td>
</tr>
<tr>
<td></td>
<td>logOn : bool *</td>
</tr>
<tr>
<td></td>
<td>preview : bool -&gt; RasEapOptions</td>
</tr>
</tbody>
</table>

### Parameters

*nonInteractive*
Type: System.Boolean
true if the authentication protocol should not display a graphical user interface, otherwise false.

logOn
Type: System.Boolean
true if the user data is obtained from WinLogon, otherwise false.

preview
Type: System.Boolean
true if the user should be prompted for identity information before dialing, otherwise false.
See Also

- RasEapOptions Class
- RasEapOptions Members
- RasEapOptions Overload
- DotRas Namespace

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The **RasEapOptions** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasEapOptions Class

DotRas Namespace

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The **RasEapOptions** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LogOn</td>
<td>Gets or sets a value indicating whether the user data is obtained from WinLogon.</td>
</tr>
<tr>
<td>NonInteractive</td>
<td>Gets or sets a value indicating whether the authentication protocol should not display a graphical user interface.</td>
</tr>
<tr>
<td>Preview</td>
<td>Gets or sets a value indicating whether the user should be prompted for identity information before dialing.</td>
</tr>
</tbody>
</table>
See Also

RasEapOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptions.LogOn Property

Gets or sets a value indicating whether the user data is obtained from WinLogon.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool LogOn { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property LogOn As Boolean Get Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool LogOn { bool get (); void set (bool value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member LogOn : bool with get, set</td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Boolean](#)
See Also

- RasEapOptions Class
- RasEapOptions Members
- DotRas Namespace

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RasEapOptions.NonInteractive Property

Gets or sets a value indicating whether the authentication protocol should not display a graphical user interface.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool NonInteractive { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property NonInteractive As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool NonInteractive { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member NonInteractive : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: **Boolean**
See Also

RasEapOptions Class
RasEapOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptions.Preview Property

Gets or sets a value indicating whether the user should be prompted for identity information before dialing.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool Preview { get; set; }
```

**Visual Basic**

```vbnet
Public Property Preview As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
property bool Preview {
    bool get ();
    void set (bool value);
}
```

**F#**

```fsharp
member Preview : bool with get, set
```

### Property Value

Type: [Boolean](#)
See Also

RasEapOptions Class
RasEapOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Provides methods to convert a RasEapOptions instance from one data type to another. Access this class through the TypeDescriptor object.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
|        | `public class RasEapOptionsConverter : TypeConverter` | `Public Class RasEapOptionsConverter Inherits TypeConverter` | `public ref class RasEapOptionsConverter : public TypeConverter` | `type RasEapOptionsConverter = class
  inherit TypeConverter
end` |
Inheritance Hierarchy

System.Object
System.ComponentModel.TypeConverter
DotRas.RasEapOptionsConverter
See Also

RasEapOptionsConverter Members
DotRas Namespace

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The **RasEapOptionsConverter** type exposes the following members.
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEapOptionsConverter</td>
<td>Initializes a new instance of the RasEapOptionsConverter class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
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<tr>
<td><img src="icon" alt="Tail" /> <strong>CanConvertFrom</strong>(<em>Type</em>)</td>
<td>Returns whether this converter can convert an object of the given type to the type of this converter. (Inherited from <code>TypeConverter</code>.)</td>
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<td><img src="icon" alt="Tail" /> <strong>CanConvertFrom</strong>(<em>ITypeDescriptorContext</em>, <em>Type</em>)</td>
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<td><img src="icon" alt="Tail" /> <strong>ConvertFrom</strong>(<em>ITypeDescriptorContext</em>, <em>CultureInfo</em>, <em>Object</em>)</td>
<td>Converts the given object to the type of this converter, using the specified context and culture information. (Overrides <code>TypeConverter.ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</code>.)</td>
</tr>
<tr>
<td><img src="icon" alt="Tail" /> <strong>ConvertFromInvariantString</strong>(<em>String</em>)</td>
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<td>Converts the given value object to the specified type, using the arguments. (Inherited from TypeConverter)</td>
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<td>GetProperties(Object)</td>
<td>Returns a collection of properties for the value parameter. (Inherited from <strong>Ty</strong>)</td>
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<tr>
<td>GetProperties(ITypeDescriptorContext, Object)</td>
<td>Returns a collection of properties for the value parameter, using the specified context. (Inherited from <strong>Ty</strong>)</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object, Attribute[])</td>
<td>Returns a collection of properties for the value parameter, using the specified context. (Overrides TypeConverter.GetProperties(ITypeDescriptorContext, Object, Attribute[]))</td>
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<td>GetPropertiesSupported()</td>
<td>Returns whether this object supports properties. (Inherited from <strong>Ty</strong>)</td>
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<td>GetPropertiesSupported(ITypeDescriptorContext)</td>
<td>Indicates whether this object supports properties, using the specified context. (Overrides TypeConverter.GetPropertiesSupported(ITypeDescriptorContext))</td>
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<td>GetStandardValues()</td>
<td>Returns a collection of standard values for the default context for the data type this type converter is designed for. (Inherited from <strong>Ty</strong>)</td>
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<tr>
<td>GetStandardValues(ITypeDescriptorContext)</td>
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<td>Returns whether the collection of standard values returned from GetStandardValues is exclusive. (Overrides TypeConverter.GetStandardValuesExclusive())</td>
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| GetStandardValuesSupported()                         | Returns whether this object supports a standard set of values that can be picked from a list. |
| GetStandardValuesSupported(ITypeDescriptorContext)  | Returns whether this object supports a standard set of values that can be picked from a list, using the specified context. |
| GetType                                              | Gets the `Type` of the current instance.                                    |
| IsValid(Object)                                      | Returns whether the given value object is valid for this type.              |
| IsValid(ITypeDescriptorContext, Object)             | Returns whether the given value object is valid for this type and for the specified context. |
| MemberwiseClone                                      | Creates a shallow copy of the current instance.                             |
| SortProperties                                       | Sorts a collection.                                                        |
| ToString                                             | Returns a string that represents the current object.                       |
See Also

RasEapOptionsConverter Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Initializes a new instance of the `RasEapOptionsConverter` class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
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See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEapOptionsConverter** type exposes the following members.
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<td>Indicates whether this converter can convert an object of a given specified type, using the specified context. (Overrides <a href="#">TypeConverter</a>.)</td>
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<td>Converts the given value to the type of this converter. (Inherited from <a href="#">TypeConverter</a>)</td>
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</table>

---

**TypeConverter**

In the context of .NET Framework, `TypeConverter` is an interface that represents a type converter. A type converter is used to convert a value from one type to another. The `CanConvertFrom` and `CanConvertTo` methods are used to determine if a conversion is possible, and `ConvertFrom` and `ConvertFromString` methods are used to perform the conversion itself.
<table>
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<td><code>GetStandardValues()</code></td>
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<td><code>GetStandardValues(ITypeDescriptorContext)</code></td>
<td>Returns a collection of standard values for the data type this type converter is designed for when provided with a format context. (Inherited from <code>TypeConverter</code>)</td>
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<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object)</td>
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<td>IsValid(Object)</td>
<td>Returns whether the given value object is valid for this type. (Inherited from Ty)</td>
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<td>SortProperties</td>
<td>Sorts a collection of properties. (Inherited from Ty)</td>
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<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object)</td>
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See Also

RasEapOptionsConverter Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.CanConvertFrom Method

RasEapOptionsConverter Class  See Also  Send Feedback
### Overload List

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See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.CanConvertFrom Method
(ITypeDescriptorContext, Type)

RasEapOptionsConverter Class  See Also  Send Feedback

Indicates whether this converter can convert an object of a given type to the type of this converter.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public override bool CanConvertFrom(
    ITypeDescriptorContext context,
    Type sourceType
)
```

Visual Basic

```vbnet
Public Overrides Function CanConvertFrom (context As ITypeDescriptorContext, sourceType As Type) As Boolean
```

Visual C++

```cpp
public:
    virtual bool CanConvertFrom(
        ITypeDescriptorContext^ context,
        Type^ sourceType
    ) override
```

F#

```fsharp
abstract CanConvertFrom :
    context : ITypeDescriptorContext *
    sourceType : Type -> bool
override CanConvertFrom :
    context : ITypeDescriptorContext *
    sourceType : Type -> bool
```

Parameters

- **context**
  - Type: `System.ComponentModel.ITypeDescriptorContext`
An `ITypeDescriptorContext` that provides a format context.

`sourceType`
Type: `System.Type`
A `Type` that represents the type you want to convert from.

**Return Value**
Type: `Boolean`
`true` if this converter can perform the conversion, otherwise `false`. 
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
CanConvertFrom Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.CanConvertTo Method

RasEapOptionsConverter Class  See Also  Send Feedback
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<tr>
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RasEapOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.CanConvertTo Method
(ITypeDescriptorContext, Type)

Indicates whether this converter can convert the object to the specified type, using the specified context.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

### C#

```csharp
public override bool CanConvertTo(
    ITypeDescriptorContext context,
    Type destinationType
)
```

### Visual Basic

```vbnet
Public Overrides Function CanConvertTo ( 
    context As ITypeDescriptorContext, 
    destinationType As Type 
) As Boolean
```

### Visual C++

```cpp
public:
    virtual bool CanConvertTo(
        ITypeDescriptorContext^ context, 
        Type^ destinationType
    ) override
```

### F#

```fsharp
abstract CanConvertTo :
    context : ITypeDescriptorContext * 
    destinationType : Type -> bool

override CanConvertTo :
    context : ITypeDescriptorContext * 
    destinationType : Type -> bool
```

**Parameters**

- **context**
  Type: `System.ComponentModel.ITypeDescriptorContext`
An `ITypeDescriptorContext` that provides a format context.  

*destinationType*

Type: `System.Type`

A `Type` that represents the type you want to convert to.

**Return Value**

Type: `Boolean`

`true` if this converter can perform the conversion, otherwise `false`. 
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
CanConvertTo Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.ConvertFrom Method

RasEapOptionsConverter Class  See Also  Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConvertFrom(Object)</td>
<td>Converts the given value to the type of this converter. (Inherited from TypeConverter.)</td>
</tr>
<tr>
<td>ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)</td>
<td>Converts the given object to the type using the specified context and culture information. (Overrides TypeConverter.ConvertFrom(ITypeDescriptorContext, CultureInfo, Object).)</td>
</tr>
</tbody>
</table>
See Also

- RasEapOptionsConverter Class
- RasEapOptionsConverter Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.ConvertFrom Method (ITypeDescriptorContext, CultureInfo, Object)

Converts the given object to the type of this converter, using the specified context and culture information.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
| `public override Object ConvertFrom(
    ITypeDescriptorContext context,
    CultureInfo culture,
    Object value
)` | `Public Overrides Function ConvertFrom (``
    context As ITypeDescriptorContext,
    culture As CultureInfo,
    value As Object
)` | `public:
    virtual Object^ ConvertFrom(
    ITypeDescriptorContext^ context,
    CultureInfo^ culture,
    Object^ value
)` | `abstract ConvertFrom :
    context : ITypeDescriptorContext *
    culture : CultureInfo *
    value : Object -> Object
override ConvertFrom :
    context : ITypeDescriptorContext *
    culture : CultureInfo *
    value : Object -> Object` |
Parameters

context
Type: System.ComponentModel.ITypeDescriptorContext
An ITypeDescriptorContext that provides a format context.

culture
Type: System.Globalization.CultureInfo
The CultureInfo to use as the current culture.

value
Type: System.Object
The Object to convert.

Return Value

Type: Object
An Object that represents the converted value.
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
ConvertFrom Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.ConvertTo Method

RasEapOptionsConverter Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ConvertTo(Object, Type)]</td>
<td>Converts the given value object to the specified type, using the arguments. (Inherited from <a href="#">TypeConverter</a>.)</td>
</tr>
<tr>
<td>![ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)]</td>
<td>Converts the given value object to the specified type, using the specified context and culture information. (Overrides <a href="#">TypeConverter.ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Converting the given value object to the specified type, using the specified context and culture information.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public override Object ConvertTo(
    ITypeDescriptorContext context,
    CultureInfo culture,
    Object value,
    Type destinationType
)
```

**Visual Basic**

```vbnet
Public Overrides Function ConvertTo (  
    context As ITypeDescriptorContext,  
    culture As CultureInfo,  
    value As Object,  
    destinationType As Type  
) As Object
```

**Visual C++**

```cpp
public:
    virtual Object^ ConvertTo(
        ITypeDescriptorContext^ context,  
        CultureInfo^ culture,  
        Object^ value,  
        Type^ destinationType
    ) override
```

**F#**

```fsharp
abstract ConvertTo :  
    context : ITypeDescriptorContext *  
    culture : CultureInfo *  
    value : Object *  
    destinationType : Type -> Object
```
override ConvertTo :
    context : ITypeDescriptorContext *
culture : CultureInfo *
value : Object *
destinationType : Type -> Object

**Parameters**

*context*
Type: System.ComponentModel.ITypeDescriptorContext
An ITypeDescriptorContext that provides a format context.

culture
Type: System.Globalization.CultureInfo
The CultureInfo to use as the current culture.

*value*
Type: System.Object
The Object to convert.

destinationType
Type: System.Type
The Type to convert the value parameter to.

**Return Value**

Type: Object
An Object that represents the converted value.
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
ConvertTo Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.GetProperties Method
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetProperties(Object)</td>
<td>Returns a collection of properties specified by the value parameter.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">TypeConverter</a>.)</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object)</td>
<td>Returns a collection of properties specified by the value parameter, using context.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">TypeConverter</a>.)</td>
</tr>
<tr>
<td>GetProperties(ITypeDescriptorContext, Object, Attribute[])</td>
<td>Returns a collection of properties specified by the value parameter, using context.</td>
</tr>
<tr>
<td></td>
<td>(Overrides <a href="#">TypeConverter.GetProperties(ITypeDescriptorContext, Object, Attribute[])</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Returns a collection of properties for the type of array specified by the value parameter, using the specified context.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public override PropertyDescriptorCollection GetProperties(ITypeDescriptorContext context, Object value, Attribute[] attributes)
``` |
| **Visual Basic** | ```
Public Overrides Function GetProperties (context As ITypeDescriptorContext, value As Object, attributes As Attribute()) As PropertyDescriptorCollection
``` |
| **Visual C++** | ```
public:
    PropertyDescriptorCollection^ GetProperties(ITypeDescriptorContext^ context, Object^ value, array<Attribute^>^ attributes)
``` |
| **F#** | ```
abstract GetProperties : context : ITypeDescriptorContext * value : Object * attributes : Attribute[] -> PropertyDescriptorCollection
override GetProperties : context : ITypeDescriptorContext * value : Object * attributes : Attribute[] -> PropertyDescriptorCollection```

Parameters

context
Type: System.ComponentModel.ITypeDescriptorContext
An ITypeDescriptorContext that provides a format context.

value
Type: System.Object
An Object that specifies the type of array for which to get properties.

attributes
Type: System.Attribute[]
An array of attributes that is used as a filter.

Return Value

Type: PropertyDescriptorCollection
A PropertyDescriptorCollection with the properties that are exposed for this data type, or a null reference (Nothing in Visual Basic) if there are no properties.
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
GetProperties Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEapOptionsConverter.GetPropertiesSupported Method

RasEapOptionsConverter Class  See Also  Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetPropertiesSupported()</td>
<td>Returns whether this object supports properties.</td>
</tr>
<tr>
<td>(Inherited from TypeConverter)</td>
<td></td>
</tr>
<tr>
<td>GetPropertiesSupported(ITypeDescriptorContext)</td>
<td>Indicates whether this object supports properties, using the specified context. (Overides TypeConverter.GetProp...</td>
</tr>
</tbody>
</table>
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
DotRas Namespace
RasEapOptionsConverter.GetPropertiesSupported Method (ITypeDescriptorContext)

Indicates whether this object supports properties, using the specified context.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public override bool GetPropertiesSupported(ITypeDescriptorContext context)</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Overrides Function GetPropertiesSupported (context As ITypeDescriptorContext) As Boolean</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: virtual bool GetPropertiesSupported(ITypeDescriptorContext^ context) override</td>
</tr>
<tr>
<td>F#</td>
<td>abstract GetPropertiesSupported : context : ITypeDescriptorContext -&gt; bool override GetPropertiesSupported : context : ITypeDescriptorContext -&gt; bool</td>
</tr>
</tbody>
</table>

### Parameters

**context**

Type: System.ComponentModel.ITypeDescriptorContext

An ITypeDescriptorContext that provides a format context.

### Return Value

Type: Boolean
true if `GetProperties(ITypeDescriptorContext, Object, Attribute[])` should be called to find the properties of this object, otherwise false.
See Also

RasEapOptionsConverter Class
RasEapOptionsConverter Members
GetPropertySupported Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEncryptionType Enumeration

Defines the encryption types.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum RasEncryptionType</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration RasEncryptionType</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public enum class RasEncryptionType</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>type RasEncryptionType</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No encryption type specified.</td>
</tr>
<tr>
<td>Require</td>
<td>1</td>
<td>Require encryption.</td>
</tr>
<tr>
<td>RequireMax</td>
<td>2</td>
<td>Require maximum encryption.</td>
</tr>
<tr>
<td>Optional</td>
<td>3</td>
<td>Use encryption if available.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace

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RasEntry Class

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Represents a remote access service (RAS) entry. This class cannot be inherited.
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
| `public sealed class RasEntry : MarshalByRefObject, ICloneable` | `Public NotInheritable Class RasEntry Inherits MarshalByRefObject Implements ICloneable` | `public ref class RasEntry sealed : public MarshalByRef Object ICloneable` | `<SealedAttribute>]
type RasEntry =
  class
    inherit MarshalByRefObject
    interface ICloneable
  end` |
Remarks

The static methods for creating entries on this object are not required to create an entry, however they do contain default information set by Windows for each platform.

Known Limitations

- The methods exposed on this class typically require the entry to belong to a phone book before they can be called.
### Examples

The following example shows how to create a VPN entry and add it to a phone book.

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>using (RasPhoneBook pbk = new RasPhoneBook());</code></td>
<td><code>Dim pbk As New RasPhoneBook</code></td>
</tr>
<tr>
<td><code>{</code></td>
<td><code>pbk.Open()</code></td>
</tr>
<tr>
<td><code>    pbk.Open();</code></td>
<td><code>Dim entry As RasEntry = RasEntry.CreateVpnEntry(&quot;VPN Connection&quot;)</code></td>
</tr>
<tr>
<td><code>    RasEntry entry = RasEntry.CreateVpnEntry(&quot;VPN Connection&quot;);</code></td>
<td><code>If entry IsNot Nothing Then</code></td>
</tr>
<tr>
<td><code>    if (entry != null)</code></td>
<td><code>    pbk.Entries.Add(entry);</code></td>
</tr>
<tr>
<td><code>    {</code></td>
<td></td>
</tr>
<tr>
<td><code>    pbk.Entries.Add(entry);</code></td>
<td></td>
</tr>
<tr>
<td><code>}</code></td>
<td><code>End If</code></td>
</tr>
<tr>
<td><code>}</code></td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
DotRas.RasEntry
See Also

- RasEntry Members
- DotRas Namespace

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The `RasEntry` type exposes the following members.
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEntry</td>
<td>Initializes a new instance of the RasEntry class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClearCredentials()</td>
<td>Clears the stored credentials for the entry.</td>
</tr>
<tr>
<td>ClearCredentials(RasPreSharedKey)</td>
<td>Clears the stored credentials for the entry.</td>
</tr>
<tr>
<td>Clone</td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td>CreateBroadbandEntry(String, RasDevice)</td>
<td>Creates a new broadband entry.</td>
</tr>
<tr>
<td>CreateBroadbandEntry(String, RasDevice, Boolean)</td>
<td>Creates a new broadband entry.</td>
</tr>
<tr>
<td>CreateDialUpEntry</td>
<td>Creates a new dial-up entry.</td>
</tr>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>CreateVpnEntry(String, String, RasVpnStrategy, RasDevice)</td>
<td>Creates a new virtual private network (VPN) entry.</td>
</tr>
<tr>
<td>CreateVpnEntry(String, String, RasVpnStrategy, RasDevice, Boolean)</td>
<td>Creates a new virtual private network (VPN) entry.</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>Exists</td>
<td>Determines whether an entry exists within the phone book at the path.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>GetCredentials()</td>
<td>Retrieves the credentials for the entry.</td>
</tr>
<tr>
<td>GetCredentials(RasPreSharedKey)</td>
<td>Retrieves the credentials for the entry.</td>
</tr>
<tr>
<td>GetCustomAuthData</td>
<td>Retrieves connection specific authentication information.</td>
</tr>
<tr>
<td>GetEapUserData</td>
<td>Retrieves user-specific Extensible Authentication Protocol (EAP) information for the specified phone book entry.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes the entry from the phone book.</td>
</tr>
<tr>
<td>Rename</td>
<td>Renames the entry.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Update</strong></td>
<td>Updates the entry.</td>
</tr>
<tr>
<td><strong>UpdateCredentials(NetworkCredential)</strong></td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td><strong>UpdateCredentials(NetworkCredential, Boolean)</strong></td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td><strong>UpdateCredentials(RasPreSharedKey, String)</strong></td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td><strong>UpdateCustomAuthData</strong></td>
<td>Updates the custom authentication data.</td>
</tr>
<tr>
<td><strong>UpdateEapUserData</strong></td>
<td>Updates the user-specific Extensible Authentication Protocol (EAP) information in the registry.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlternatePhoneNumbers</td>
<td>Gets a collection of alternate phone numbers that are dialed in the order listed if the primary number fails.</td>
</tr>
<tr>
<td>AreaCode</td>
<td>Gets or sets the area code.</td>
</tr>
<tr>
<td>AutoDialDll</td>
<td><strong>Obsolete.</strong> Gets or sets the path to the custom-dial DLL.</td>
</tr>
<tr>
<td>AutoDialFunc</td>
<td><strong>Obsolete.</strong> Gets or sets the name of the callback function for the customized AutoDial handler.</td>
</tr>
<tr>
<td>Channels</td>
<td>Gets or sets the channels.</td>
</tr>
<tr>
<td>CountryCode</td>
<td>Gets or sets the country/region code portion of the phone number.</td>
</tr>
<tr>
<td>CountryId</td>
<td>Gets or sets the country/region identifier.</td>
</tr>
<tr>
<td>CustomAuthKey</td>
<td>Gets or sets the authentication key provided to the Extensible Authentication Protocol (EAP) vendor.</td>
</tr>
<tr>
<td>CustomDialDll</td>
<td>Gets or sets the path for the dynamic link library (DLL) that implements the custom-dialing functions.</td>
</tr>
<tr>
<td>Device</td>
<td>Gets or sets the remote access device.</td>
</tr>
<tr>
<td>DialExtraPercent</td>
<td>Gets or sets the percent of total bandwidth that must be used before additional subentries are dialed.</td>
</tr>
<tr>
<td>DialExtraSampleSeconds</td>
<td>Gets or sets the number of seconds the number of seconds before additional subentries are connected.</td>
</tr>
<tr>
<td>DialMode</td>
<td>Gets or sets the dial mode for the</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>multilink subentries associated with this entry.</code></td>
<td>DnsAddress Gets or sets the IP address of the DNS server.</td>
</tr>
<tr>
<td><code>DnsAddress</code></td>
<td>Gets or sets the IP address of the DNS server.</td>
</tr>
<tr>
<td><code>DnsAddressAlt</code></td>
<td>Gets or sets the IP address of an alternate DNS server.</td>
</tr>
<tr>
<td><code>DnsSuffix</code></td>
<td>Gets or sets the Domain Name Service (DNS) suffix for the connection.</td>
</tr>
<tr>
<td><code>EncryptionType</code></td>
<td>Gets or sets the type of encryption to use with the connection.</td>
</tr>
<tr>
<td><code>EntryType</code></td>
<td>Gets or sets the type of phone book entry.</td>
</tr>
<tr>
<td><code>FrameSize</code></td>
<td>Gets or sets the network protocol frame size.</td>
</tr>
<tr>
<td><code>FramingProtocol</code></td>
<td>Gets or sets the framing protocol used by the server.</td>
</tr>
<tr>
<td><code>HangUpExtraPercent</code></td>
<td>Gets or sets the percent of total bandwidth used before subentries are disconnected.</td>
</tr>
<tr>
<td><code>HangUpExtraSampleSeconds</code></td>
<td>Gets or sets the number of seconds before subentries are disconnected.</td>
</tr>
<tr>
<td><code>Id</code></td>
<td>Gets the id of the phone book entry.</td>
</tr>
<tr>
<td><code>IdleDisconnectSeconds</code></td>
<td>Gets or sets the number of seconds after which the connection is terminated due to inactivity.</td>
</tr>
<tr>
<td><code>IPAddress</code></td>
<td>Gets or sets the IP address.</td>
</tr>
<tr>
<td><code>IPv4InterfaceMetric</code></td>
<td>Gets or sets the metric of the IPv4 stack for this interface.</td>
</tr>
<tr>
<td><code>IPv6Address</code></td>
<td>Gets or sets the IPv6 address.</td>
</tr>
<tr>
<td><code>IPv6DnsAddress</code></td>
<td>Gets or sets the IPv6 address of the preferred DNS server.</td>
</tr>
<tr>
<td><code>IPv6DnsAddressAlt</code></td>
<td>Gets or sets the IPv6 address of the alternate DNS server.</td>
</tr>
<tr>
<td><code>IPv6InterfaceMetric</code></td>
<td>Gets or sets the metric of the IPv6</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>IPv6PrefixLength</strong></td>
<td>Gets or sets the IPv6 subnet prefix length.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Gets the name of the entry.</td>
</tr>
<tr>
<td><strong>NetworkOutageTime</strong></td>
<td>Gets or sets the amount of time, in minutes, that IKEv2 packets will be transmitted without a response before the connection is considered lost.</td>
</tr>
<tr>
<td><strong>NetworkProtocols</strong></td>
<td>Gets or sets the network protocols to negotiate.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Gets or sets the entry options.</td>
</tr>
<tr>
<td><strong>Owner</strong></td>
<td>Gets the owner of the entry.</td>
</tr>
<tr>
<td><strong>PhoneNumber</strong></td>
<td>Gets or sets the phone number.</td>
</tr>
<tr>
<td><strong>PrerequisiteEntryName</strong></td>
<td>Gets or sets the entry name that will be dialed from the prerequisite phone book.</td>
</tr>
<tr>
<td><strong>PrerequisitePhoneBook</strong></td>
<td>Gets or sets the path to a phone book file.</td>
</tr>
<tr>
<td><strong>RedialCount</strong></td>
<td>Gets or sets the number of times RAS attempts to redial a connection.</td>
</tr>
<tr>
<td><strong>RedialPause</strong></td>
<td>Gets or sets the number of seconds to wait between redial attempts.</td>
</tr>
<tr>
<td><strong>Script</strong></td>
<td>Gets or sets the path of the script file.</td>
</tr>
<tr>
<td><strong>SubEntries</strong></td>
<td>Gets the collection of multilink subentries associated with this entry.</td>
</tr>
<tr>
<td><strong>TcpWindowSize</strong></td>
<td>Gets or sets the TCP window size for all TCP sessions that run over this connection.</td>
</tr>
<tr>
<td><strong>VpnStrategy</strong></td>
<td>Gets or sets the VPN strategy to use when dialing a VPN connection.</td>
</tr>
<tr>
<td><strong>WinsAddress</strong></td>
<td>Gets or sets the IP address of the WINS server.</td>
</tr>
<tr>
<td><strong>WinsAddressAlt</strong></td>
<td>Gets or sets the IP address of an</td>
</tr>
</tbody>
</table>
alternate WINS server.

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X25Address</td>
<td>Gets or sets the X.25 address to connect to.</td>
</tr>
<tr>
<td>X25Facilities</td>
<td>Gets or sets the facilities to request from the X.25 host upon connection.</td>
</tr>
<tr>
<td>X25PadType</td>
<td>Gets or sets the X.25 PAD type.</td>
</tr>
<tr>
<td>X25UserData</td>
<td>Gets or sets the additional connection information supplied to the X.25 host upon connection.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Initializes a new instance of the `RasEntry` class.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
</tbody>
</table>
| public RasEntry(  
   string name  
) |   |
| **Visual Basic** |   |
| Public Sub New (  
   name As String  
) |   |
| **Visual C++** |   |
| public:  
RasEntry(  
   String^ name  
) |   |
| **F#** |   |
| new :  
name : string -> RasEntry |   |

### Parameters

- **name**
  - Type: **System.String**
  - The name of the entry.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>name</code> is an empty string or null reference ((Nothing \text{ in Visual Basic})).</td>
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</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntry** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClearCredentials()</td>
<td>Clears the stored credentials for the entry.</td>
</tr>
<tr>
<td>ClearCredentials(RasPreSharedKey)</td>
<td>Clears the stored credentials for the entry.</td>
</tr>
<tr>
<td>Clone</td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td>CreateBroadbandEntry(String, RasDevice)</td>
<td>Creates a new broadband entry.</td>
</tr>
<tr>
<td>CreateBroadbandEntry(String, RasDevice, Boolean)</td>
<td>Creates a new broadband entry.</td>
</tr>
<tr>
<td>CreateDialUpEntry</td>
<td>Creates a new dial-up entry.</td>
</tr>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>CreateVpnEntry(String, String, RasVpnStrategy, RasDevice)</td>
<td>Creates a new virtual private network (VPN) entry.</td>
</tr>
<tr>
<td>CreateVpnEntry(String, String, RasVpnStrategy, RasDevice, Boolean)</td>
<td>Creates a new virtual private network (VPN) entry.</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>Exists</td>
<td>Determines whether an entry exists within the phone book at the path</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>GetCredentials()</td>
<td>Retrieves the credentials for the entry.</td>
</tr>
<tr>
<td>GetCredentials(RasPreSharedKey)</td>
<td>Retrieves the credentials for the entry.</td>
</tr>
<tr>
<td>GetCustomAuthData</td>
<td>Retrieves connection specific authentication information.</td>
</tr>
<tr>
<td>GetEapUserData</td>
<td>Retrieves user-specific Extensible Authentication Protocol (EAP) information for the specified phone book entry.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes the entry from the phone book.</td>
</tr>
<tr>
<td>Rename</td>
<td>Renames the entry.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that specified.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Update</td>
<td>Updates the entry.</td>
</tr>
<tr>
<td><code>UpdateCredentials(NetworkCredential)</code></td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td><code>UpdateCredentials(NetworkCredential, Boolean)</code></td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td><code>UpdateCredentials(RasPreSharedKey, String)</code></td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td><code>UpdateCustomAuthData</code></td>
<td>Updates the custom authentication data.</td>
</tr>
<tr>
<td><code>UpdateEapUserData</code></td>
<td>Updates the user-specific Extensible Authentication Protocol (EAP) information in the registry.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.ClearCredentials Method

RasEntry Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
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See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Clears the stored credentials for the entry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public bool ClearCredentials()</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Function ClearCredentials As Boolean</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: bool ClearCredentials()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ClearCredentials : unit -&gt; bool</code></td>
</tr>
</tbody>
</table>

### Return Value
Type: [Boolean](#)

true if the operation was successful, otherwise false.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>System.InvalidOperationException</td>
<td>The entry is not associated with a phone book.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
ClearCredentials Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Clears the stored credentials for the entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

class Method
{
    public bool ClearCredentials(RasPreSharedKey key)
}

Visual Basic

Public Function ClearCredentials(key As RasPreSharedKey) As Boolean

Visual C++

public:
bool ClearCredentials(RasPreSharedKey key)

F#

member ClearCredentials :
    key : RasPreSharedKey -> bool

Parameters

key
Type: DotRas.RasPreSharedKey
The pre-shared key whose value to clear.

Return Value
Type: Boolean
true if the operation was successful, otherwise false.
Remarks

Windows XP and later: This method is supported.
## Exceptions

<table>
<thead>
<tr>
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<tbody>
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See Also

RasEntry Class
RasEntry Members
ClearCredentials Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.Clone Method

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public Object Clone()
```

**Visual Basic**

```vbnet
Public Function Clone As Object
```

**Visual C++**

```cpp
public:
virtual Object^ Clone() sealed
```

**F#**

```fsharp
abstract Clone : unit -> Object
override Clone : unit -> Object
```

### Return Value

Type: [Object](#)

A new [RasEntry](#) object.

### Implements

[IClonable,Clone](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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DotRas SDK Documentation

RasEntry.CreateBroadbandEntry Method

RasEntry Class  See Also  Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CreateBroadbandEntry(String, RasDevice)</code></td>
<td>Creates a new broadband entry.</td>
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<tr>
<td><code>CreateBroadbandEntry(String, RasDevice, Boolean)</code></td>
<td>Creates a new broadband entry.</td>
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See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.CreateBroadbandEntry Method (String, RasDevice)

Creates a new broadband entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public static RasEntry CreateBroadbandEntry(
    string name,
    RasDevice device
)
```

Visual Basic

```vbnet
Public Shared Function CreateBroadbandEntry (  
    name As String,
    device As RasDevice
) As RasEntry
```

Visual C++

```cpp
public:  
static RasEntry^ CreateBroadbandEntry(  
    String^ name,
    RasDevice^ device
)
```

F#

```fsharp
static member CreateBroadbandEntry :
    name : string *
    device : RasDevice -> RasEntry
```

Parameters

name
Type: System.String
The name of the entry.

device
Type: DotRas.RasDevice
Required. An RasDevice to use for connecting.

**Return Value**
Type: RasEntry
A new RasEntry object.
Remarks

The device for this connection is typically a WAN Miniport (PPPOE) device.

Windows XP and later: This method is supported.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
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<tr>
<td><code>System.ArgumentException</code></td>
<td><em>name</em> is an empty string or null reference (<em>Nothing</em> in Visual Basic).</td>
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<tr>
<td><code>System.ArgumentNullException</code></td>
<td><em>device</em> is a null reference (<em>Nothing</em> in Visual Basic).</td>
</tr>
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See Also

RasEntry Class
RasEntry Members
CreateBroadbandEntry Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Creates a new broadband entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

**C#**

```csharp
public static RasEntry CreateBroadbandEntry(
    string name,
    RasDevice device,
    bool useRemoteDefaultGateway
)
```

**Visual Basic**

```vbnet
Public Shared Function CreateBroadbandEntry ( 
    name As String,
    device As RasDevice,
    useRemoteDefaultGateway As Boolean
) As RasEntry
```

**Visual C++**

```cpp
public:
static RasEntry^ CreateBroadbandEntry( 
    String^ name,
    RasDevice^ device,
    bool useRemoteDefaultGateway
)
```

**F#**

```fsharp
static member CreateBroadbandEntry : 
    name : string * 
    device : RasDevice * 
    useRemoteDefaultGateway : bool -> RasEntry
```

**Parameters**

*name*
Type: `System.String`
The name of the entry.

device
Type: `DotRas.RasDevice`
Required. An `RasDevice` to use for connecting.

`useRemoteDefaultGateway`
Type: `System.Boolean`
`true` if the connection should use the remote default gateway, otherwise `false`.

**Return Value**
Type: `RasEntry`
A new `RasEntry` object.
Remarks

The device for this connection is typically a WAN Miniport (PPPOE) device.

Windows XP and later: This method is supported.
### Exceptions

<table>
<thead>
<tr>
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<th>Condition</th>
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<tr>
<td><code>System.ArgumentException</code></td>
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See Also

RasEntry Class
RasEntry Members
CreateBroadbandEntry Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.CreateDialUpEntry Method

Creates a new dial-up entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public static RasEntry CreateDialUpEntry(
    string name,
    string phoneNumber,
    RasDevice device
)
```

**Visual Basic**

```vbnet
Public Shared Function CreateDialUpEntry ( 
    name As String,
    phoneNumber As String,
    device As RasDevice
) As RasEntry
```

**Visual C++**

```cpp
public:
static RasEntry^ CreateDialUpEntry( 
    String^ name,
    String^ phoneNumber,
    RasDevice^ device
)
```

**F#**

```fsharp
static member CreateDialUpEntry : 
    name : string *
    phoneNumber : string *
    device : RasDevice -> RasEntry
```

### Parameters

- **name**
Type: `System.String`
The name of the entry.

`phoneNumber`
Type: `System.String`
The phone number to dial.

device
Type: `DotRas.RasDevice`
Required. An `RasDevice` to use for connecting.

**Return Value**
Type: `RasEntry`
A new `RasEntry` object.
### Exceptions

<table>
<thead>
<tr>
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<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><em>name</em> or <em>phoneNumber</em> is an empty string or null reference (<em>Nothing</em> in Visual Basic).</td>
</tr>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><em>device</em> is a null reference (<em>Nothing</em> in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
RasEntry.CreateVpnEntry Method

See Also
Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Creates a new virtual private network (VPN) entry.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateVpnEntry(String, String, RasVpnStrategy, RasDevice)</td>
<td>Creates a new virtual private network (VPN) entry.</td>
</tr>
</tbody>
</table>

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<th>Description</th>
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<tbody>
<tr>
<td>CreateVpnEntry(String, String, RasVpnStrategy, RasDevice, Boolean)</td>
<td>Creates a new virtual private network (VPN) entry.</td>
</tr>
</tbody>
</table>
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Creates a new virtual private network (VPN) entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public static RasEntry CreateVpnEntry(
    string name,
    string serverAddress,
    RasVpnStrategy strategy,
    RasDevice device
)
```

**Visual Basic**

```vbnet
Public Shared Function CreateVpnEntry (  
    name As String,
    serverAddress As String,
    strategy As RasVpnStrategy,
    device As RasDevice
) As RasEntry
```

**Visual C++**

```cpp
public:
static RasEntry^ CreateVpnEntry(
    String^ name,
    String^ serverAddress,
    RasVpnStrategy strategy,
    RasDevice^ device
)
```

**F#**

```fsharp
static member CreateVpnEntry :
    name : string *
    serverAddress : string *
    strategy : RasVpnStrategy *
    device : RasDevice -> RasEntry
```
**Parameters**

*name*
Type: `System.String`
The name of the entry.

*serverAddress*
Type: `System.String`
The server address to connect to.

*strategy*
Type: `DotRas.RasVpnStrategy`
The virtual private network (VPN) strategy of the connection.

*device*
Type: `DotRas.RasDevice`
Required. An `RasDevice` to use for connecting.

**Return Value**
Type: `RasEntry`
A new `RasEntry` object.
Remarks

The device for this connection is typically a WAN Miniport (L2TP) or WAN Miniport (PPTP).
## Exceptions

<table>
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</table>
See Also

- RasEntry Class
- RasEntry Members
- CreateVpnEntry Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.CreateVpnEntry Method (String, String, RasVpnStrategy, RasDevice, Boolean)

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Creates a new virtual private network (VPN) entry.
### Syntax

<table>
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<tr>
<th>Language</th>
<th>Code</th>
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<tbody>
<tr>
<td><strong>C#</strong></td>
<td>`public static RasEntry CreateVpnEntry(</td>
</tr>
<tr>
<td></td>
<td>string name,</td>
</tr>
<tr>
<td></td>
<td>string serverAddress,</td>
</tr>
<tr>
<td></td>
<td>RasVpnStrategy strategy,</td>
</tr>
<tr>
<td></td>
<td>RasDevice device,</td>
</tr>
<tr>
<td></td>
<td>bool useRemoteDefaultGateway</td>
</tr>
<tr>
<td></td>
<td>)</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Shared Function CreateVpnEntry (</td>
</tr>
<tr>
<td></td>
<td>name As String,</td>
</tr>
<tr>
<td></td>
<td>serverAddress As String,</td>
</tr>
<tr>
<td></td>
<td>strategy As RasVpnStrategy,</td>
</tr>
<tr>
<td></td>
<td>device As RasDevice,</td>
</tr>
<tr>
<td></td>
<td>useRemoteDefaultGateway As Boolean</td>
</tr>
<tr>
<td></td>
<td>) As RasEntry</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public:</td>
</tr>
<tr>
<td></td>
<td>static RasEntry^ CreateVpnEntry(</td>
</tr>
<tr>
<td></td>
<td>String^ name,</td>
</tr>
<tr>
<td></td>
<td>String^ serverAddress,</td>
</tr>
<tr>
<td></td>
<td>RasVpnStrategy^ strategy,</td>
</tr>
<tr>
<td></td>
<td>RasDevice^ device,</td>
</tr>
<tr>
<td></td>
<td>bool useRemoteDefaultGateway</td>
</tr>
<tr>
<td></td>
<td>)</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>`static member CreateVpnEntry :</td>
</tr>
<tr>
<td></td>
<td>name : string *</td>
</tr>
</tbody>
</table>
Parameters

*name*
Type: System.String
The name of the entry.

*serverAddress*
Type: System.String
The server address to connect to.

*strategy*
Type: DotRas.RasVpnStrategy
The virtual private network (VPN) strategy of the connection.

*device*
Type: DotRas.RasDevice
Required. An RasDevice to use for connecting.

*useRemoteDefaultGateway*
Type: System.Boolean
true if the connection should use the remote default gateway, otherwise false.

Return Value
Type: RasEntry
A new RasEntry object.
Remarks

The device for this connection is typically a WAN Miniport (L2TP) or WAN Miniport (PPTP).
<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>name</code> or <code>serverAddress</code> is an empty string or null reference (Nothing in Visual Basic).</td>
</tr>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>device</code> is a null reference (Nothing in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
CreateVpnEntry Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.Exists Method

Determines whether an entry exists within the phone book at the path specified.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**       | `public static bool Exists(
|              |    string entryName,
|              |    string phoneBookPath
|              | )`                                                                  |
| **Visual Basic** | `Public Shared Function Exists (   
|                |    entryName As String,
|                |    phoneBookPath As String
|                | ) As Boolean`                                                      |
| **Visual C++** | `public:
|              | static bool Exists(
|              |    String^ entryName,
|              |    String^ phoneBookPath
|              | )`                                                                |
| **F#**       | `static member Exists :
|              |    entryName : string *
|              |    phoneBookPath : string -> bool`                                |

### Parameters

- **entryName**
  - Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
  - The name of the entry to check.

- **phoneBookPath**
Type: `System.String`
The full path (including filename) of the phone book.

**Return Value**
Type: `Boolean`
`true` if the entry exists, otherwise `false`. 
Examples
The following example shows how to test whether an entry exists within a phone book.

**C#**
```csharp
bool exists = RasEntry.Exists("VPN Connection", "C:\")
```

**Visual Basic**
```vbnet
Dim exists As Boolean = RasEntry.Exists("VPN Connection", "C:\")
```
###Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>System.ArgumentException</td>
<td><em>entryName</em> and/or <em>phoneBookPath</em> is an empty string or null reference</td>
</tr>
<tr>
<td></td>
<td><em>(Nothing in Visual Basic)</em></td>
</tr>
<tr>
<td>System.IO.FileNotFoundException</td>
<td><em>phoneBookPath</em> was not found.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.GetCredentials Method

RasEntry Class  See Also  Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetCredentials()</td>
<td>Retrieves the credentials for the entry.</td>
</tr>
<tr>
<td>GetCredentials(RasPreSharedKey)</td>
<td>Retrieves the credentials for the entry.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.GetCredentials Method
RasEntry Class  See Also  Send Feedback

Retrieves the credentials for the entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public NetworkCredential GetCredentials()</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Function GetCredentials As NetworkCredential</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: NetworkCredential^ GetCredentials()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member GetCredentials : unit -&gt; NetworkCredential</code></td>
</tr>
</tbody>
</table>

**Return Value**

Type: [NetworkCredential](#)

The credentials stored in the entry, otherwise a null reference (**Nothing** in Visual Basic) if the credentials did not exist.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The entry is not associated with a phone book.</td>
</tr>
<tr>
<td><code>System.UnauthorizedAccessException</code></td>
<td>The caller does not have the required permission to perform the action requested.</td>
</tr>
</tbody>
</table>
See Also

- RasEntry Class
- RasEntry Members
- GetCredentials Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.GetCredentials Method (RasPreSharedKey)

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Retrieves the credentials for the entry.
## Syntax

**C#**

```csharp
public NetworkCredential GetCredentials(
    RasPreSharedKey key
)
```

**Visual Basic**

```vbnet
Public Function GetCredentials (  
    key As RasPreSharedKey
) As NetworkCredential
```

**Visual C++**

```cpp
public:
NetworkCredential GetCredentials(
    RasPreSharedKey key
)
```

**F#**

```fsharp
member GetCredentials :  
    key : RasPreSharedKey -> NetworkCredential
```

### Parameters

**key**  
Type: [DotRas.RasPreSharedKey](#)  
The pre-shared key to retrieve.

### Return Value

Type: [NetworkCredential](#)  
The credentials stored in the entry, otherwise a null reference (**Nothing** in Visual Basic) if the credentials did not exist.
Remarks

Windows XP and later: This method is supported.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>System.InvalidOperationException</td>
<td>The entry is not associated with a phone book.</td>
</tr>
<tr>
<td>System.UnauthorizedAccessException</td>
<td>The caller does not have the required permission to perform the action requested.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
GetCredentials Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.GetCustomAuthData Method

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Retrieves connection specific authentication information.
## Syntax

### C#

```
public byte[] GetCustomAuthData()
```

### Visual Basic

```
Public Function GetCustomAuthData As Byte()
```

### Visual C++

```
public:
array<unsigned char>^ GetCustomAuthData()
```

### F#

```
member GetCustomAuthData : unit -> byte[]
```

## Return Value

Type: `Byte[]`

A byte array containing the authentication information, otherwise a null reference (`Nothing` in Visual Basic).
Remarks

This information is not specific to a particular user.
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The entry is not associated with a phone book.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.GetEapUserData Method

Retrieves user-specific Extensible Authentication Protocol (EAP) information for the specified phone book entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public byte[] GetEapUserData()</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Function GetEapUserData As Byte()</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: array&lt;unsigned char&gt;^ GetEapUserData()</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>member GetEapUserData : unit -&gt; byte[]</td>
<td></td>
</tr>
</tbody>
</table>

**Return Value**

Type: **Byte[]**

A byte array containing the EAP data, otherwise a null reference (**Nothing** in Visual Basic).
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>System.InvalidOperationException</td>
<td>The entry is not associated with a phone book.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.Remove Method

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Removes the entry from the phone book.
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool Remove()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function Remove As Boolean</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: bool Remove()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Remove : unit -&gt; bool</code></td>
</tr>
</tbody>
</table>

### Return Value

Type: [Boolean](#)

`true` if the operation was successful, otherwise `false`. 
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Renames the entry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool Rename(
    string newEntryName
)
```

**Visual Basic**

```vbnet
Public Function Rename (newEntryName As String) As Boolean
```

**Visual C++**

```cpp
public:
bool Rename(
    String^ newEntryName
)
```

**F#**

```fsharp
member Rename :
    newEntryName : string -> bool
```

### Parameters

*newEntryName*

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

Required. The new name of the entry.

### Return Value

Type: [Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

*true* if the operation was successful, otherwise *false*. 
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><em>newEntryName</em> is an empty string or null reference (<em>Nothing</em> in Visual Basic) or <em>newEntryName</em> is invalid.</td>
</tr>
<tr>
<td><code>System.UnauthorizedAccessException</code></td>
<td>The current user does not have permissions to the phone book specified.</td>
</tr>
</tbody>
</table>
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.Update Method

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool Update()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function Update As Boolean</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: bool Update()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Update : unit -&gt; bool</code></td>
</tr>
</tbody>
</table>

### Return Value

Type: [Boolean](#)

*true* if the operation was successful, otherwise *false*. 
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The entry is not associated with a phone book.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.UpdateCredentials Method
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UpdateCredentials(NetworkCredential)</td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td>UpdateCredentials(NetworkCredential, Boolean)</td>
<td>Updates the user credentials for the entry.</td>
</tr>
<tr>
<td>UpdateCredentials(RasPreSharedKey, String)</td>
<td>Updates the user credentials for the entry.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Updates the user credentials for the entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Parameters

**value**  
Type: [System.Net.NetworkCredential](https://learn.microsoft.com/dotnet/api/system.net.networkcredential)  
An [NetworkCredential](https://learn.microsoft.com/dotnet/api/system.net.networkcredential) object containing user credentials.

### Return Value

Type: [Boolean](https://learn.microsoft.com/dotnet/api/system.bool)  
**true** if the operation was successful, otherwise **false**.
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>value</code> is a null reference (<strong>Nothing</strong> in Visual Basic).</td>
</tr>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The entry is not associated with a phone book.</td>
</tr>
<tr>
<td><code>System.UnauthorizedAccessException</code></td>
<td>The caller does not have the required permission to perform the action requested.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
UpdateCredentials Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.UpdateCredentials Method (NetworkCredential, Boolean)

Updates the user credentials for the entry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public bool UpdateCredentials(
    NetworkCredential value,
    bool storeCredentialsForAllUsers
)
```

**Visual Basic**

```vbnet
Public Function UpdateCredentials (  
    value As NetworkCredential,  
    storeCredentialsForAllUsers As Boolean  
) As Boolean
```

**Visual C++**

```cpp
public:
bool UpdateCredentials(  
    NetworkCredential^ value,  
    bool storeCredentialsForAllUsers
)
```

**F#**

```fsharp
member UpdateCredentials :  
    value : NetworkCredential *  
    storeCredentialsForAllUsers : bool -> bool
```

**Parameters**

*value*

Type: [System.Net.NetworkCredential](https://docs.microsoft.com/en-us/dotnet/api/system.net.networkcredential)

An [NetworkCredential](https://docs.microsoft.com/en-us/dotnet/api/system.net.networkcredential) object containing user credentials.

*storeCredentialsForAllUsers*
Type: `System.Boolean`

`true` if the credentials should be stored for all users, otherwise `false`.

**Return Value**

Type: `Boolean`

`true` if the operation was successful, otherwise `false`.
Remarks

Windows XP and later: This method is supported.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>value</code> is a null reference (Nothing in Visual Basic).</td>
</tr>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The entry is not associated with a phone book.</td>
</tr>
<tr>
<td><code>System.UnauthorizedAccessException</code></td>
<td>The caller does not have the required permission to perform the action requested.</td>
</tr>
</tbody>
</table>
See Also

- RasEntry Class
- RasEntry Members
- UpdateCredentials Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Updates the user credentials for the entry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool UpdateCredentials(
    RasPreSharedKey key,
    string value
)
```

### Visual Basic

```vbnet
Public Function UpdateCredentials (  
    key As RasPreSharedKey,  
    value As String  
) As Boolean
```

### Visual C++

```cpp
public:
bool UpdateCredentials(  
    RasPreSharedKey key,  
    String^ value  
)
```

### F#

```fsharp
member UpdateCredentials :
    key : RasPreSharedKey *
    value : string -> bool
```

## Parameters

**key**
Type: [DotRas.RasPreSharedKey](#)

The pre-shared key to update.

**value**
Type: `System.String`
The value to set.

**Return Value**
Type: `Boolean`
`true` if the operation was successful, otherwise `false`. 
Remarks

Windows XP and later: This method is supported.
See Also

RasEntry Class
RasEntry Members
UpdateCredentials Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.UpdateCustomAuthData Method

Updates the custom authentication data.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool UpdateCustomAuthData(
    byte[] data
)
```

### Visual Basic

```vbnet
Public Function UpdateCustomAuthData (data As Byte()) As Boolean
```

### Visual C++

```cpp
public:
bool UpdateCustomAuthData(
    array<unsigned char>^ data
)
```

### F#

```fsharp
member UpdateCustomAuthData :
    data : byte[] -> bool
```

## Parameters

**data**
Type: `System.Byte[]`
A byte array containing the custom authentication data.

## Return Value

Type: `Boolean`
`true` if the operation was successful, otherwise `false`. 
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The entry is not associated with a phone book.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.UpdateEapUserData Method

Updates the user-specific Extensible Authentication Protocol (EAP) information in the registry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| ```
public bool UpdateEapUserData(
    byte[] data
)
``` |

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| ```
Public Function UpdateEapUserData ( 
    data As Byte()
) As Boolean
``` |

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
</table>
| ```
public:
bool UpdateEapUserData(
    array<unsigned char>^ data
)
``` |

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
</table>
| ```
member UpdateEapUserData : 
    data : byte[] -> bool
``` |

**Parameters**

*data*

Type: `System.Byte[]`

A byte array containing the EAP data.

**Return Value**

Type: `Boolean`

*true* if the operation was successful, otherwise *false*. 
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><em>data</em> is a null reference (<em>Nothing</em> in Visual Basic).</td>
</tr>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The entry is not associated with a phone book.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntry** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AlternatePhoneNumber</strong></td>
<td>Gets a collection of alternate phone numbers that are dialed in the order listed if the primary number fails.</td>
</tr>
<tr>
<td><strong>AreaCode</strong></td>
<td>Gets or sets the area code.</td>
</tr>
<tr>
<td><strong>AutoDialDll</strong></td>
<td>Gets or sets the path to the custom-dial DLL.</td>
</tr>
<tr>
<td><strong>AutoDialFunc</strong></td>
<td>Obsolete. Gets or sets the name of the callback function for the customized AutoDial handler.</td>
</tr>
<tr>
<td><strong>Channels</strong></td>
<td>Gets or sets the channels.</td>
</tr>
<tr>
<td><strong>CountryCode</strong></td>
<td>Gets or sets the country/region code portion of the phone number.</td>
</tr>
<tr>
<td><strong>CountryId</strong></td>
<td>Gets or sets the country/region identifier.</td>
</tr>
<tr>
<td><strong>CustomAuthKey</strong></td>
<td>Gets or sets the authentication key provided to the Extensible Authentication Protocol (EAP) vendor.</td>
</tr>
<tr>
<td><strong>CustomDialDll</strong></td>
<td>Gets or sets the path for the dynamic link library (DLL) that implements the custom-dialing functions.</td>
</tr>
<tr>
<td><strong>Device</strong></td>
<td>Gets or sets the remote access device.</td>
</tr>
<tr>
<td><strong>DialExtraPercent</strong></td>
<td>Gets or sets the percent of total bandwidth that must be used before additional subentries are dialed.</td>
</tr>
<tr>
<td><strong>DialExtraSampleSeconds</strong></td>
<td>Gets or sets the number of seconds before additional subentries are connected.</td>
</tr>
<tr>
<td><strong>DialMode</strong></td>
<td>Gets or sets the dial mode for the</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DnsAddress</td>
<td>Gets or sets the IP address of the DNS server.</td>
</tr>
<tr>
<td>DnsAddressAlt</td>
<td>Gets or sets the IP address of an alternate DNS server.</td>
</tr>
<tr>
<td>DnsSuffix</td>
<td>Gets or sets the Domain Name Service (DNS) suffix for the connection.</td>
</tr>
<tr>
<td>EncryptionType</td>
<td>Gets or sets the type of encryption to use with the connection.</td>
</tr>
<tr>
<td>EntryType</td>
<td>Gets or sets the type of phone book entry.</td>
</tr>
<tr>
<td>FrameSize</td>
<td>Gets or sets the network protocol frame size.</td>
</tr>
<tr>
<td>FramingProtocol</td>
<td>Gets or sets the framing protocol used by the server.</td>
</tr>
<tr>
<td>HangUpExtraPercent</td>
<td>Gets or sets the percent of total bandwidth used before subentries are disconnected.</td>
</tr>
<tr>
<td>HangUpExtraSampleSeconds</td>
<td>Gets or sets the number of seconds before subentries are disconnected.</td>
</tr>
<tr>
<td>Id</td>
<td>Gets the id of the phone book entry.</td>
</tr>
<tr>
<td>IdleDisconnectSeconds</td>
<td>Gets or sets the number of seconds after which the connection is terminated due to inactivity.</td>
</tr>
<tr>
<td>IPAddress</td>
<td>Gets or sets the IP address.</td>
</tr>
<tr>
<td>I Pv4InterfaceMetric</td>
<td>Gets or sets the metric of the IPv4 stack for this interface.</td>
</tr>
<tr>
<td>I Pv6Address</td>
<td>Gets or sets the IPv6 address.</td>
</tr>
<tr>
<td>I Pv6DnsAddress</td>
<td>Gets or sets the IPv6 address of the preferred DNS server.</td>
</tr>
<tr>
<td>I Pv6DnsAddressAlt</td>
<td>Gets or sets the IPv6 address of the alternate DNS server.</td>
</tr>
<tr>
<td>I Pv6InterfaceMetric</td>
<td>Gets or sets the metric of the IPv6</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IPv6PrefixLength</td>
<td>Gets or sets the IPv6 subnet prefix length.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the entry.</td>
</tr>
<tr>
<td>NetworkOutageTime</td>
<td>Gets or sets the amount of time, in minutes, that IKEv2 packets will be transmitted without a response before the connection is considered lost.</td>
</tr>
<tr>
<td>NetworkProtocols</td>
<td>Gets or sets the network protocols to negotiate.</td>
</tr>
<tr>
<td>Options</td>
<td>Gets or sets the entry options.</td>
</tr>
<tr>
<td>Owner</td>
<td>Gets the owner of the entry.</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Gets or sets the phone number.</td>
</tr>
<tr>
<td>PrerequisiteEntryName</td>
<td>Gets or sets the entry name that will be dialed from the prerequisite phone book.</td>
</tr>
<tr>
<td>PrerequisitePhoneBook</td>
<td>Gets or sets the path to a phone book file.</td>
</tr>
<tr>
<td>RedialCount</td>
<td>Gets or sets the number of times RAS attempts to redial a connection.</td>
</tr>
<tr>
<td>RedialPause</td>
<td>Gets or sets the number of seconds to wait between redial attempts.</td>
</tr>
<tr>
<td>Script</td>
<td>Gets or sets the path of the script file.</td>
</tr>
<tr>
<td>SubEntries</td>
<td>Gets the collection of multilink subentries associated with this entry.</td>
</tr>
<tr>
<td>TcpWindowSize</td>
<td>Gets or sets the TCP window size for all TCP sessions that run over this connection.</td>
</tr>
<tr>
<td>VpnStrategy</td>
<td>Gets or sets the VPN strategy to use when dialing a VPN connection.</td>
</tr>
<tr>
<td>WinsAddress</td>
<td>Gets or sets the IP address of the WINS server.</td>
</tr>
</tbody>
</table>
| WinsAddressAlt                  | Gets or sets the IP address of an
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X25Address</td>
<td>Gets or sets the X.25 address to connect to.</td>
</tr>
<tr>
<td>X25Facilities</td>
<td>Gets or sets the facilities to request from the X.25 host upon connection.</td>
</tr>
<tr>
<td>X25PadType</td>
<td>Gets or sets the X.25 PAD type.</td>
</tr>
<tr>
<td>X25UserData</td>
<td>Gets or sets the additional connection information supplied to the X.25 host upon connection.</td>
</tr>
</tbody>
</table>
See Also

RasEntry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.AlternatePhoneNumbers Property

Gets a collection of alternate phone numbers that are dialed in the order listed if the primary number fails.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public Collection&lt;string&gt; AlternatePhoneNumbers { get; }</td>
<td>Public ReadOnly Property AlternatePhoneNumbers As Collection&lt;string&gt; Get</td>
<td>public: property Collection&lt;String^&gt;^ AlternatePhoneNumbers -&gt; Collection&lt;String^&gt;^ get ();</td>
<td>member AlternatePhoneNumbers : Collection&lt;string&gt; with</td>
</tr>
</tbody>
</table>

### Property Value

Type: Collection<String>
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.AreaCode Property

Gets or sets the area code.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string AreaCode { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property AreaCode As String
Get
Set`                                   |
| **Visual C++** | `public:
property String^ AreaCode {
    String^ get ();
    void set (String^ value);
}                                   |
| **F#**     | `member AreaCode : string with get, set`                              |

### Property Value

**Type:** [String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.AutoDialDll Property

Gets or sets the path to the custom-dial DLL.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[ObsoleteAttribute(&quot;This member is no longer used. The CustomDialDll property should be used instead.&quot;)]</code> public string AutoDialDll { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;ObsoleteAttribute(&quot;This member is no longer used. The CustomDialDll property should be used instead.&quot;)&gt; Public Property AutoDialDll As String Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: [ObsoleteAttribute(L&quot;This member is no longer used. The CustomDialDll property should be used instead.&quot;)] property String^ AutoDialDll { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>&lt;ObsoleteAttribute(&quot;This member is no longer used. The CustomDialDll property should be used instead.&quot;)&gt; member AutoDialDll : string with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
RasEntry.AutoDialFunc Property

Gets or sets the name of the callback function for the customized AutoDial handler.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>[ObsoleteAttribute(&quot;This member is no longer used.&quot;)]</code> public string AutoDialFunc { get; set; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>&lt;ObsoleteAttribute(&quot;This member is no longer used.&quot;))&gt; Public Property AutoDialFunc As String Get Set</code></td>
</tr>
</tbody>
</table>
| Visual C++ | `public: [ObsoleteAttribute(L"This member is no longer used.")] property String^ AutoDialFunc { 
|            | String^ get (); 
|            | void set (String^ value); 
|            | }` |
| F#         | `[<ObsoleteAttribute("This member is no longer used.")] member AutoDialFunc : string with get, set` |

### Property Value

Type: [String](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the channels.

**Namespace:** [DotRas](#)  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int Channels { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property Channels As Integer</code></td>
</tr>
<tr>
<td></td>
<td><code>Get</code></td>
</tr>
<tr>
<td></td>
<td><code>Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: int Channels {</code></td>
</tr>
<tr>
<td></td>
<td><code>    int get ();</code></td>
</tr>
<tr>
<td></td>
<td><code>    void set (int value);</code></td>
</tr>
<tr>
<td></td>
<td><code>}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Channels : int with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](#)
Remarks

This member is reserved for future use.
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.CountryCode Property

Gets or sets the country/region code portion of the phone number.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public int CountryCode { get; set; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Property CountryCode As Integer  Get                              Set</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: int CountryCode { get () ;  void set (int value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member CountryCode : int with get, set</td>
</tr>
</tbody>
</table>

**Property Value**

Type: **Int32**
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.CountryId Property

Gets or sets the country/region identifier.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public int CountryId { get; set; }
```

**Visual Basic**

```vbscript
Public Property CountryId As Integer
    Get
    Set
```

**Visual C++**

```cpp
public:
    property int CountryId {
        int get ();
        void set (int value);
    }
```

**F#**

```fsharp
member CountryId : int with get, set
```

**Property Value**

Type: [Int32](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.CustomAuthKey Property

Gets or sets the authentication key provided to the Extensible Authentication Protocol (EAP) vendor.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public int CustomAuthKey { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property CustomAuthKey As Integer</td>
</tr>
<tr>
<td></td>
<td>Get</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property int CustomAuthKey { int get (); void set (int value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member CustomAuthKey : int with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.CustomDialDll Property

Gets or sets the path for the dynamic link library (DLL) that implements the custom-dialing functions.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public string CustomDialDll { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property CustomDialDll As String Get Set</td>
</tr>
</tbody>
</table>
| **Visual C++** | public:
|  | property String^ CustomDialDll { String^ get (); void set (String^ value); } |
| **F#**   | member CustomDialDll : string with get, set |

**Property Value**
Type: [String](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.Device Property

Gets or sets the remote access device.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public RasDevice Device { get; set; }</code></td>
<td><code>Public Property Device As RasDevice Get Set</code></td>
<td><code>public: property RasDevice^ Device { RasDevice^ get (); void set (RasDevice^ value); }</code></td>
<td><code>member Device : RasDevice with get, set</code></td>
</tr>
</tbody>
</table>

**Property Value**  
Type: [RasDevice](#)
Remarks

To retrieve a list of available devices, use the `GetDevices()` method.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.DialExtraPercent Property

RasEntry Class  See Also  Send Feedback

Gets or sets the percent of total bandwidth that must be used before additional subentries are dialed.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Programming Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public int DialExtraPercent { get; set; }</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public Property DialExtraPercent As Integer</code></td>
<td><code>Get</code></td>
</tr>
<tr>
<td></td>
<td><code>Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: property int DialExtraPercent {</code></td>
<td><code>int get ();</code></td>
</tr>
<tr>
<td></td>
<td><code>void set (int value);</code></td>
</tr>
<tr>
<td></td>
<td><code>}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>member DialExtraPercent : int with get, set</code></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](#)
Remarks

This member is ignored unless DialMode sets the DialAsNeeded flag.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
Gets or sets the number of seconds before additional subentries are connected.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int DialExtraSampleSeconds { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property DialExtraSampleSeconds As Integer Get Set</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public: property int DialExtraSampleSeconds { 
    int get ();
    void set (int value);
} ` |
| **F#** | `member DialExtraSampleSeconds : int with get, set` |

**Property Value**

Type: **Int32**
Remarks

This member is ignored unless DialMode sets the DialAsNeeded flag.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the dial mode for the multilink subentries associated with this entry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasDialMode DialMode { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property DialMode As RasDialMode
Get
Set` |
| **Visual C++** | `public:
property RasDialMode DialMode {
    RasDialMode get ();
    void set (RasDialMode value);
} ` |
| **F#** | `member DialMode : RasDialMode with get, set` |

### Property Value
Type: [RasDialMode](#)
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.DnsAddress Property

Gets or sets the IP address of the DNS server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public IPAddress DnsAddress { get; set; }
``` |
| **Visual Basic** | ```
Public Property DnsAddress As IPAddress
    Get
    Set
``` |
| **Visual C++** | ```
public:
    property IPAddress^ DnsAddress {
        IPAddress^ get ();
        void set (IPAddress^ value);
    }
``` |
| **F#**    | ```
member DnsAddress : IPAddress with get, set
``` |

### Property Value

Type: [IPAddress](#)
Remarks

Setting this member to a value other than `[:IPAddress.Any]` will cause the 'Use the following DNS server addresses' option to be set for TCP/IPv4.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.DnsAddressAlt Property

Gets or sets the IP address of an alternate DNS server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**    | ```
public IPAddress DnsAddressAlt { get; set; }
``` |
| **Visual Basic** | ```
Public Property DnsAddressAlt As IPAddress
Get
Set
``` |
| **Visual C++** | ```
public:
property IPAddress^ DnsAddressAlt {
    IPAddress^ get ();
    void set (IPAddress^ value);
}
``` |
| **F#**    | ```
member DnsAddressAlt : IPAddress with get, set
``` |

### Property Value

Type: [IPAddress](#)
Remarks

Setting this member to a value other than ![IPAddress.Any] will cause the 'Use the following DNS server addresses' option to be set for TCP/IPv4.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
Gets or sets the Domain Name Service (DNS) suffix for the connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public string DnsSuffix { get; set; }</code></td>
</tr>
</tbody>
</table>
| Visual Basic | `Public Property DnsSuffix As String
Get
Set` |
| Visual C++ | `public:
property String^ DnsSuffix {
    String^ get ();
    void set (String^ value);
}|
| F#       | `member DnsSuffix : string with get, set` |

### Property Value

Type: [String](#)
Remarks

Windows XP and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.EncryptionType Property

Gets or sets the type of encryption to use with the connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

**C#**

```csharp
public RasEncryptionType EncryptionType { get; set; }
```

**Visual Basic**

```vbnet
Public Property EncryptionType As RasEncryptionType
    Get
    Set
```

**Visual C++**

```cpp
public:
    property RasEncryptionType EncryptionType {
        RasEncryptionType get ();
        void set (RasEncryptionType value);
    }
```

**F#**

```fsharp
member EncryptionType : RasEncryptionType with get, set
```

**Property Value**

Type: [RasEncryptionType](#)
Remarks

This member does not affect how passwords are encrypted. Whether passwords are encrypted and how passwords are encrypted is determined by the authentication protocol.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.EntryType Property

Gets or sets the type of phone book entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasEntryType EntryType { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property EntryType As RasEntryType</code> <code>Get</code> <code>Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasEntryType EntryType {</code> <code>RasEntryType get ();</code> <code>void set (RasEntryType value);</code> <code>}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member EntryType : RasEntryType with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasEntryType](#)
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.FrameSize Property

Gets or sets the network protocol frame size.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public int FrameSize { get; set; }
```

### Visual Basic

```vbnet
Public Property FrameSize As Integer
    Get
        Set
    End Get
End Property
```

### Visual C++

```cpp
public:
    property int FrameSize {
        int get ();
        void set (int value);
    }
```

### F#

```fsharp
member FrameSize : int with get, set
```

## Property Value

Type: [Int32](#)
Remarks

This member is ignored unless FramingProtocol sets the Slip flag.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
RasEntry.FramingProtocol Property

Gets or sets the framing protocol used by the server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasFramingProtocol FramingProtocol { get; set; }
```

### Visual Basic

```vbnet
Public Property FramingProtocol As RasFramingProtocol
    Get
    Set
```

### Visual C++

```cpp
public:
    property RasFramingProtocol FramingProtocol { 
            RasFramingProtocol get (); 
            void set (RasFramingProtocol value); 
    }
```

### F#

```fsharp
member FramingProtocol : RasFramingProtocol with get, 
```

## Property Value

Type: [RasFramingProtocol](#)
Remarks

To use compressed SLIP, set the Slip flag, and set the IPHeaderCompression flag on the Options property.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.HangUpExtraPercent Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the percent of total bandwidth used before subentries are disconnected.
### Syntax

**C#**

```csharp
public int HangUpExtraPercent { get; set; }
```

**Visual Basic**

```vbnet
Public Property HangUpExtraPercent As Integer
    Get
        Handle
    Set
```

**Visual C++**

```cpp
public:
    property int HangUpExtraPercent {
        int get ();
        void set (int value);
    }
```

**F#**

```fsharp
member HangUpExtraPercent : int with get, set
```

### Property Value

Type: Int32
Remarks

This member is ignored unless DialMode sets the DialAsNeeded flag.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.HangUpExtraSampleSeconds Property

Gets or sets the number of seconds before subentries are disconnected.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int HangUpExtraSampleSeconds { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property HangUpExtraSampleSeconds As Integer Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: int HangUpExtraSampleSeconds {}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member HangUpExtraSampleSeconds : int with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](#)
Remarks

This member is ignored unless DialMode sets the DialAsNeeded flag.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.Id Property

Gets the id of the phone book entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public Guid Id { get; }</td>
<td>Public ReadOnly Property Id As Guid Get</td>
<td>public: property Guid Id {</td>
<td>member Id : Guid with get</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Guid get ();</td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: Guid


See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.IdleDisconnectSeconds Property

Gets or sets the number of seconds after which the connection is terminated due to inactivity.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
# Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public int IdleDisconnectSeconds { get; set; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Property IdleDisconnectSeconds As Integer Get Set</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property int IdleDisconnectSeconds { int get (); void set (int value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member IdleDisconnectSeconds : int with get, set</td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
Remarks

See the RasIdleDisconnectTimeout class for possible values.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.IPAddress Property

Gets or sets the IP address.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public IPAddress IPAddress { get; set; }
```

### Visual Basic

```vbnet
Public Property IPAddress As IPAddress
    Get
    Set
```

### Visual C++

```cpp
public:
    property IPAddress^ IPAddress {  
        IPAddress^ get ();  
        void set (IPAddress^ value);  
    }
```

### F#

```fsharp
member IPAddress : IPAddress with get, set
```

## Property Value

Type: [IPAddress](#)
Remarks

Setting this member to a value other than [:IPAddress.Any] will cause the 'Use the following IP address' option to be set for TCP/IPv4.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.IPv4InterfaceMetric Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the metric of the IPv4 stack for this interface.
### Syntax

#### C#

```csharp
public int IPv4InterfaceMetric { get; set; }
```

#### Visual Basic

```vbs
Public Property IPv4InterfaceMetric As Integer
    Get
    Set
```

#### Visual C++

```cpp
public:
    property int IPv4InterfaceMetric {
        int get ();
        void set (int value);
    }
```

#### F#

```fsh
member IPv4InterfaceMetric : int with get, set
```

### Property Value

Type: [Int32](#)
Remarks

Windows Vista and later: This property is available.
See Also

RasEntry Class  
RasEntry Members  
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.IPv6Address Property

Gets or sets the IPv6 address.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public IPAddress IPv6Address { get; set; }
```

**Visual Basic**

```vbnet
Public Property IPv6Address As IPAddress
Get
Set
```

**Visual C++**

```cpp
public:
property IPAddress^ IPv6Address {
    IPAddress^ get ();
    void set (IPAddress^ value);
}
```

**F#**

```fsharp
member IPv6Address : IPAddress with get, set
```

## Property Value

Type: [IPAddress](#)
Remarks

Setting this member to a value other than [!:IPAddress.Any] will cause the 'Use the following IP address' option to be set for TCP/IPv6.

**Windows 7 and later:** This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the IPv6 address of the preferred DNS server.

**Namespace:** [DotRas](https://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public IPAddress IPv6DnsAddress { get; set; }
```

**Visual Basic**

```vbnet
Public Property IPv6DnsAddress As IPAddress
    Get
    Set
```

**Visual C++**

```cpp
public:
    property IPAddress^ IPv6DnsAddress {
        IPAddress^ get ();
        void set (IPAddress^ value);
    }
```

**F#**

```fsharp
member IPv6DnsAddress : IPAddress with get, set
```

### Property Value

Type: IPAddress
Remarks

Setting this member to a value other than [!:IPAddress.Any] will cause the 'Use the following DNS server addresses' option to be set for TCP/IPv6.

Windows Vista and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the IPv6 address of the alternate DNS server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public IPAddress IPv6DnsAddressAlt { get; set; }</td>
</tr>
</tbody>
</table>
| **Visual Basic** | Public Property IPv6DnsAddressAlt As IPAddress  
Get  
Set |
| **Visual C++** | public: 
property IPAddress^ IPv6DnsAddressAlt {  
IPAddress^ get ();  
void set (IPAddress^ value);  
} |
| **F#**   | member IPv6DnsAddressAlt : IPAddress with get, set |

### Property Value

Type: IPAddress
Remarks

Setting this member to a value other than [!:IPAddress.Any] will cause the 'Use the following DNS server addresses' option to be set for TCP/IPv6.

Windows Vista and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.IPv6InterfaceMetric Property

Gets or sets the metric of the IPv6 stack for this interface.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int IPv6InterfaceMetric { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property IPv6InterfaceMetric As Integer Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int IPv6InterfaceMetric { int get (); void set (int value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member IPv6InterfaceMetric : int with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
Remarks

Windows Vista and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the IPv6 subnet prefix length.

**Namespace:** [DotRas](#)  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public int IPv6PrefixLength { get; set; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Property IPv6PrefixLength As Integer Get Set</code></td>
</tr>
</tbody>
</table>
| Visual C++ | `public: property int IPv6PrefixLength {  
               int get ();  
               void set (int value);  
           }` |
| F#       | `member IPv6PrefixLength : int with get, set` |

### Property Value

Type: [Int32](#)
Remarks

Windows 7 and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.Name Property

Gets the name of the entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public string Name { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property Name As String
    Get
```

### Visual C++

```cpp
public:
    property String^ Name {
        String^ get();
    }
```

### F#

```fsharp
member Name : string with get
```

## Property Value

Type: [String](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.NetworkOutageTime Property

Gets or sets the amount of time, in minutes, that IKEv2 packets will be transmitted without a response before the connection is considered lost.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int NetworkOutageTime { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property NetworkOutageTime As Integer
  Get
  Set`               |
| **Visual C++**  | `public:
  property int NetworkOutageTime {
    int get ();
    void set (int value);` |
| **F#**       | `member NetworkOutageTime : int with get, set`                      |

**Property Value**

Type: [Int32](#)
Remarks

Windows 7 and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
RasEntry.NetworkProtocols Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the network protocols to negotiate.
### Syntax

#### C#

```csharp
public RasNetworkProtocols NetworkProtocols { get; set; }
```

#### Visual Basic

```vbnet
Public Property NetworkProtocols As RasNetworkProtocols
    Get
    Set
```

#### Visual C++

```cpp
public: property RasNetworkProtocols^ NetworkProtocols {              
    RasNetworkProtocols^ get (); 
    void set (RasNetworkProtocols^ value);
}
```

#### F#

```fsharp
member NetworkProtocols : RasNetworkProtocols with get, set
```

### Property Value

**Type:** [RasNetworkProtocols](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.Options Property

Gets or sets the entry options.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasEntryOptions Options { get; set; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Property Options As RasEntryOptions Get Set</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property RasEntryOptions^ Options { RasEntryOptions^ get (); void set (RasEntryOptions^ value); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member Options : RasEntryOptions with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasEntryOptions](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
RasEntry.Owner Property

Gets the owner of the entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasPhoneBook Owner { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Property Owner As RasPhoneBook
Get
```

#### Visual C++

```cpp
public:
property RasPhoneBook^ Owner {
    RasPhoneBook^ get();
}
```

#### F#

```fsharp
member Owner : RasPhoneBook with get
```

### Property Value

Type: [RasPhoneBook](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.PhoneNumber Property

Gets or sets the phone number.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string PhoneNumber { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property PhoneNumber As String
Get
Set` |
| **Visual C++** | `public:
property String^ PhoneNumber {
    String^ get ();
    void set (String^ value);
} |
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.PrerequisiteEntryName Property

Gets or sets the entry name that will be dialed from the prerequisite phone book.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string PrerequisiteEntryName { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property PrerequisiteEntryName As String</code></td>
</tr>
<tr>
<td></td>
<td><code>Get</code></td>
</tr>
<tr>
<td></td>
<td><code>Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: String^ PrerequisiteEntryName { </code></td>
</tr>
<tr>
<td></td>
<td><code>String^ get ();</code></td>
</tr>
<tr>
<td></td>
<td><code>void set (String^ value);</code></td>
</tr>
<tr>
<td></td>
<td><code>}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member PrerequisiteEntryName : string with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type:  `String`
• Remarks

This member is only used for virtual private network (VPN) connections.

Windows XP and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.PrerequisitePhoneBook Property

Gets or sets the path to a phone book file.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public string PrerequisitePhoneBook { get; set; }</code></td>
<td><code>Public Property PrerequisitePhoneBook As String</code></td>
<td><code>public: property String^ PrerequisitePhoneBook {</code></td>
<td><code>member PrerequisitePhoneBook : string with get, set</code></td>
</tr>
<tr>
<td></td>
<td><code>        Get</code></td>
<td><code>    String^ get ();</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>        Set</code></td>
<td><code>        void set (String^ value);</code></td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [String](mailto:mailto:string)
Remarks

This member is only used for virtual private network (VPN) connections.

Windows XP and later: This property is available.
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

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RasEntry.RedialCount Property

Gets or sets the number of times RAS attempts to redial a connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int RedialCount { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property RedialCount As Integer              Get
          Set`                                           |
| **Visual C++** | `public:
    property int RedialCount {
        int get ();
        void set (int value);
    }`                                                   |
| **F#**     | `member RedialCount : int with get, set`              |

### Property Value
Type: [Int32](#)
Remarks

Windows XP and later: This property is available.
- **See Also**

  - RasEntry Class
  - RasEntry Members
  - DotRas Namespace

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RasEntry.RedialPause Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the number of seconds to wait between redial attempts.
## Syntax

### C#

```csharp
public int RedialPause { get; set; }
```

### Visual Basic

```vbnet
Public Property RedialPause As Integer
    Get
    Set
```

### Visual C++

```cpp
public:
    property int RedialPause {
        int get ();
        void set (int value);
    }
```

### F#

```fsharp
member RedialPause : int with get, set
```

## Property Value

Type: **Int32**
Remarks

Windows XP and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.Script Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the path of the script file.
## Syntax

### C#

```csharp
public string Script { get; set; }
```

### Visual Basic

```vbnet
Public Property Script As String
    Get
    Set
```

### Visual C++

```cpp
public:
    property String^ Script { 
        String^ get ();
        void set (String^ value);
    }
```

### F#

```fsharp
member Script : string with get, set
```

## Property Value

Type: [String](#)
Remarks

To indicate a SWITCH.INF script name, set the first character to "[".
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntry.SubEntries Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets the collection of multilink subentries associated with this entry.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasSubEntryCollection SubEntries { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property SubEntries As RasSubEntryCollection Get</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:
      property RasSubEntryCollection^ SubEntries {
      RasSubEntryCollection^ get ();
      }`                           |
| **F#**     | `member SubEntries : RasSubEntryCollection with get`                |

### Property Value

Type: [RasSubEntryCollection](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.TcpWindowSize Property

Gets or sets the TCP window size for all TCP sessions that run over this connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int TcpWindowSize { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property TcpWindowSize As Integer` \(`Get` \(`Set` `
| **Visual C++** | `public: property int TcpWindowSize {` \(`int get ();` \(`void set (int value);` `}
| **F#**     | `member TcpWindowSize : int with get, set` |

### Property Value
Type: [Int32](#)
Remarks

Windows Vista and later: This member is ignored, the TCP window size is determined by the TCP stack.

Windows XP and later: This property is available.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
Gets or sets the VPN strategy to use when dialing a VPN connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasVpnStrategy VpnStrategy { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property VpnStrategy As RasVpnStrategy Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasVpnStrategy VpnStrategy { RasVpnStrategy get (); void set (RasVpnStrategy value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member VpnStrategy : RasVpnStrategy with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasVpnStrategy](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.WinsAddress Property

*Namespace: DotRas
*Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)*

Gets or sets the IP address of the WINS server.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public IPAddress WinsAddress { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property WinsAddress As IPAddress</td>
</tr>
<tr>
<td></td>
<td>Get</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property IPAddress^ WinsAddress {</td>
</tr>
<tr>
<td></td>
<td>IPAddress^ get ();</td>
</tr>
<tr>
<td></td>
<td>void set (IPAddress^ value);</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member WinsAddress : IPAddress with get, set</td>
</tr>
</tbody>
</table>

**Property Value**
Type: [IPAddress](#)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
RasEntry.WinsAddressAlt Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets the IP address of an alternate WINS server.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**    | ```
public IPAddress WinsAddressAlt { get; set; }
``` |
| **Visual Basic** | ```
Public Property WinsAddressAlt As IPAddress
 Get
 Set
``` |
| **Visual C++** | ```
public:
property IPAddress^ WinsAddressAlt {
    IPAddress^ get ();
    void set (IPAddress^ value);
}
``` |
| **F#**    | ```
member WinsAddressAlt : IPAddress with get, set
``` |

### Property Value

Type: [IPAddress](https://docs.microsoft.com/en-us/dotnet/api/system.net.ipaddress?view=netplussdk)
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the X.25 address to connect to.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public string X25Address { get; set; }
```

### Visual Basic

```vbnet
Public Property X25Address As String
    Get
    Set
```

### Visual C++

```cpp
public:
    property String^ X25Address {
        String^ get ();
        void set (String^ value);
    }
```

### F#

```fsharp
member X25Address : string with get, set
```

## Property Value

Type: [String](#)
Remarks

This member should be an empty string unless the entry should dial using an X.25 PAD or native X.25 device.
See Also

- RasEntry Class
- RasEntry Members
- DotRas Namespace

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RasEntry.X25Facilities Property

Gets or sets the facilities to request from the X.25 host upon connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#** | ```
public string X25Facilities { get; set; }
``` |
| **Visual Basic** | ```
Public Property X25Facilities As String
Get
Set
``` |
| **Visual C++** | ```
public:
property String^ X25Facilities {
    String^ get ();
    void set (String^ value);
}
``` |
| **F#** | ```
member X25Facilities : string with get, set
``` |

### Property Value

**Type:** [String](#)
Remarks

This member is ignored if the X25Address is an empty string.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace
RasEntry.X25PadType Property

Gets or sets the X.25 PAD type.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public string X25PadType { get; set; }
```

Visual Basic

```vbnet
Public Property X25PadType As String
    Get
    Set
```

Visual C++

```cpp
public:
property String^ X25PadType {
    String^ get ();
    void set (String^ value);
}
```

F#

```fsharp
member X25PadType : string with get, set
```

**Property Value**

Type: String
Remarks

This member should be an empty string unless the entry should dial using an X.25 PAD. This member maps to a section name in PAD.INF.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntry.X25UserData Property

Gets or sets the additional connection information supplied to the X.25 host upon connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public string X25UserData { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property X25UserData As String Get Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property String^ X25UserData { String^ get (); void set (String^ value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member X25UserData : string with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](#)
Remarks

This member is ignored if the X25Address is an empty string.
See Also

RasEntry Class
RasEntry Members
DotRas Namespace

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RasEntryCollection Class

Represents a strongly-typed collection of RasEntry objects. This class cannot be inherited.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public sealed class RasEntryCollection : RasOwnedCollection
```

**Visual Basic**

```vbnet
Public NotInheritable Class RasEntryCollection
    Inherits RasOwnedCollection(Of RasPhoneBook,
```

**Visual C++**

```cpp
public ref class RasEntryCollection sealed : public
```

**F#**

```fsharp
[<SealedAttribute>]
type RasEntryCollection =
    class
        inherit RasOwnedCollection<RasPhoneBook, Ras
```

```fsharp
def
```
```
Inheritance Hierarchy

- **System.Object**
- **System.MarshalByRefObject**
- **DotRas.Design.RasCollection(RasEntry)**
- **DotRas.Design.RasOwnedCollection(RasPhoneBook, RasEntry)**
- **DotRas.RasEntryCollection**
See Also

- RasEntryCollection Members
- DotRas Namespace

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The **RasEntryCollection** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Add</strong></td>
<td>Adds the item to the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Clear</strong></td>
<td>Clears the items in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Contains(String)</strong></td>
<td>Determines whether the phone book contains the entry specified.</td>
</tr>
<tr>
<td><strong>Contains(TObject)</strong></td>
<td>Determines whether the phone book contains the entry specified.</td>
</tr>
<tr>
<td><strong>CopyTo</strong></td>
<td>Copies the entries to a Array starting at a particular index. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetEnumerator</strong></td>
<td>Returns an enumerator that iterates through the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>IndexOf</strong></td>
<td>Searches for the specified item within the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Remove(String)</strong></td>
<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td><strong>Remove(TObject)</strong></td>
<td>Removes an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>RemoveAt</strong></td>
<td>Removes the entry at the specified index in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Count</strong></td>
<td>Gets the number of entries contained in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>IsReadOnly</strong></td>
<td>Gets a value indicating whether the collection is read-only. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Item(String)</strong></td>
<td>Gets an entry from the collection.</td>
</tr>
<tr>
<td><strong>Item(Int32)</strong></td>
<td>Gets an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
DotRas Namespace

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The **RasEntryCollection** type exposes the following members.
## Methods

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<th>Description</th>
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</tr>
<tr>
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<tr>
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<td>Determines whether the phone book contains the entry specified.</td>
</tr>
<tr>
<td><strong>Contains(TObject)</strong></td>
<td>Determines whether the phone book contains the entry specified. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>CopyTo</strong></td>
<td>Copies the entries to a Array starting at a particular index. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
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<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetEnumerator</strong></td>
<td>Returns an enumerator that iterates through the collection. (Inherited from RasCollection(TObject).)</td>
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<tr>
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<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
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<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
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</tr>
<tr>
<td><strong>Remove(String)</strong></td>
<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td><strong>Remove(TObject)</strong></td>
<td>Removes an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>RemoveAt</strong></td>
<td>Removes the entry at the specified index in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
DotRas Namespace

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RasEntryCollection.Contains Method

RasEntryCollection Class See Also Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contains(String)</td>
<td>Determines whether the phone book contains the entry specified.</td>
</tr>
<tr>
<td>Contains(TObject)</td>
<td>Determines whether the phone book contains the entry specified. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
RasEntryCollection Members
DotRas Namespace
Determine whether the phone book contains the entry specified.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```
public bool Contains(
    string name
)
```

### Visual Basic

```
Public Function Contains ( 
    name As String 
) As Boolean
```

### Visual C++

```
public:
bool Contains(
    String^ name
)
```

### F#

```
member Contains : 
    name : string -> bool
```

### Parameters

**name**
Type: System.String
The name of the entry to locate.

### Return Value

Type: Boolean
**true** if the item was found in the phone book, otherwise false.
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>System.ArgumentException</td>
<td><em>name</em> is an empty string or null reference</td>
</tr>
<tr>
<td></td>
<td><em>(Nothing in Visual Basic).</em></td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
RasEntryCollection Members
Contains Overload
DotRas Namespace

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RasEntryCollection.Remove Method

RasEntryCollection Class  See Also  Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Remove(String)</code></td>
<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td><code>Remove(TObject)</code></td>
<td>Removes an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
RasEntryCollection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryCollection.Remove Method (String)

Removes an entry from the collection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#** | public bool Remove(
  string name
) |
| **Visual Basic** | Public Function Remove (  
  name As String
) As Boolean |
| **Visual C++** | public:
  bool Remove(
  String^ name
) |
| **F#** | member Remove :
  name : string -> bool |

### Parameters

*name*

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

Required. The name of the entry to remove.

### Return Value

Type: [Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

`true` if the item was removed successfully, otherwise `false`. 
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>name</code> is a null reference (<code>Nothing</code> in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
RasEntryCollection Members
Remove Overload
DotRas Namespace

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The `RasEntryCollection` type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Count</strong></td>
<td>Gets the number of entries contained in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>IsReadOnly</strong></td>
<td>Gets a value indicating whether the collection is read-only. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Item(String)</strong></td>
<td>Gets an entry from the collection.</td>
</tr>
<tr>
<td><strong>Item(Int32)</strong></td>
<td>Gets an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
DotRas Namespace

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RasEntryCollection.Item Property

RasEntryCollection Class  See Also  Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item(String)</td>
<td>Gets an entry from the collection.</td>
</tr>
<tr>
<td>Item(Int32)</td>
<td>Gets an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasEntryCollection Class
RasEntryCollection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryCollection.Item Property (String)

Gets an entry from the collection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public RasEntry this[</td>
</tr>
<tr>
<td>string name</td>
</tr>
<tr>
<td>] { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Default Property Item (</td>
</tr>
<tr>
<td>name As String</td>
</tr>
<tr>
<td>) As RasEntry</td>
</tr>
<tr>
<td>Get</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property RasEntry^ default[String^ name] {</td>
</tr>
<tr>
<td>RasEntry^ get (String^ name);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>member Item : RasEntry with get</td>
</tr>
</tbody>
</table>

### Parameters

**name**
Type: System.String
The name of the entry to get.

### Return Value
Type: RasEntry
An RasEntry object.
See Also

RasEntryCollection Class
RasEntryCollection Members
Item Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Prompts the user to create or modify a phone book entry. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public sealed class RasEntryDialog : RasCommonDialog</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public NotInheritable Class RasEntryDialog  
                  Inherits RasCommonDialog` |
| **Visual C++** | `public ref class RasEntryDialog sealed : public RasCommonDialog` |
| **F#**   | `type RasEntryDialog =  
                  class  
                  inherit RasCommonDialog  
                  end` |
## Examples

The following example shows how to modify an existing entry using the **RasEntryDialog** component.

### C#

```csharp
using (RasEntryDialog dialog = new RasEntryDialog())
{
    dialog.EntryName = "VPN Connection";
    dialog.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers);
    dialog.Style = RasDialogStyle.Edit;
    {
        ' The entry was modified successfully.
    }
}
```

### Visual Basic

```vbnet
Dim dialog As RasEntryDialog
Try
    dialog = New RasEntryDialog
    dialog.EntryName = "VPN Connection"
    dialog.PhoneBookPath = RasPhoneBook.GetPhoneBookPath(RasPhoneBookType.AllUsers)
    dialog.Style = RasDialogStyle.Edit
    If (dialog.ShowDialog() = System.Windows.Forms.DialogResult.OK)
    {' The entry was modified successfully.
    End If
Finally
    If (dialog IsNot Nothing) Then
        dialog.Dispose()
    End If
End Try
```
Inheritance Hierarchy

- `System.Object`
- `System.MarshalByRefObject`
- `System.ComponentModel.Component`
- `DotRas.Design.RasCommonDialog`
- `DotRas.RasEntryDialog`
See Also

- RasEntryDialog Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntryDialog** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEntryDialog</td>
<td>Initializes a new instance of the RasEntryDialog class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets all RasEntryDialog properties to their default values. (Overrides RasCommonDialog.Reset().)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>ShowDialog()</strong></td>
<td>Runs a common dialog box with a default owner. (Inherited from <a href="#">CommonDialog</a>.)</td>
</tr>
<tr>
<td><strong>ShowDialog(IWin32Window)</strong></td>
<td>Runs a common dialog box with the specified owner. (Inherited from <a href="#">CommonDialog</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a <a href="#">String</a> containing the name of the <a href="#">Component</a>, if any. This method should not be overridden. (Inherited from <a href="#">Component</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Container</td>
<td>Gets the <strong>IContainer</strong> that contains the <strong>Component</strong>. (Inherited from <strong>Component</strong>.)</td>
</tr>
<tr>
<td>EntryName</td>
<td>Gets or sets the name of the entry.</td>
</tr>
<tr>
<td>Location</td>
<td>Gets or sets the coordinates of the upper-left corner of the dialog box. (Inherited from <strong>RasCommonDialog</strong>.)</td>
</tr>
<tr>
<td>NoRename</td>
<td>Gets or sets a value indicating whether entries cannot be renamed while in edit mode.</td>
</tr>
<tr>
<td>PhoneBookPath</td>
<td>Gets or sets the full path (including filename) to the phone book.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the <strong>ISite</strong> of the <strong>Component</strong>. (Inherited from <strong>Component</strong>.)</td>
</tr>
<tr>
<td>Style</td>
<td>Gets or sets the style of dialog box to display.</td>
</tr>
<tr>
<td>Tag</td>
<td>Gets or sets an object that contains data about the control. (Inherited from <strong>CommonDialog</strong>.)</td>
</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method. (Inherited from Component.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the dialog has encountered an error. (Inherited from RasCommonDialog.)</td>
</tr>
<tr>
<td>HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box. (Inherited from CommonDialog.)</td>
</tr>
</tbody>
</table>
See Also

RasEntryDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryDialog Constructor

Initializes a new instance of the RasEntryDialog class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public RasEntryDialog()</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: RasEntryDialog()</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>new : unit -&gt; RasEntryDialog</td>
</tr>
</tbody>
</table>
See Also

RasEntryDialog Class
RasEntryDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntryDialog** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Dispose</strong></td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Reset</strong></td>
<td>Resets all RasEntryDialog properties to their default values. (Overrides RasCommonDialog.Reset().)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>ShowDialog()</strong></td>
<td>Runs a common dialog box with a default owner. (Inherited from CommonDialog.)</td>
</tr>
<tr>
<td><strong>ShowDialog(IWin32Window)</strong></td>
<td>Runs a common dialog box with the specified owner. (Inherited from CommonDialog.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden. (Inherited from Component.)</td>
</tr>
</tbody>
</table>
See Also

RasEntryDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryDialog.Reset Method

Resets all RasEntryDialog properties to their default values.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public override void Reset()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overrides Sub Reset</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>virtual void Reset() override</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>abstract Reset : unit -&gt; unit</td>
</tr>
<tr>
<td>override Reset : unit -&gt; unit</td>
</tr>
</tbody>
</table>
See Also

RasEntryDialog Class
RasEntryDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryDialog Properties

The RasEntryDialog type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Container</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/microsoft.visualstudio.interop.ras.icontainer">IContainer</a> that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>EntryName</strong></td>
<td>Gets or sets the name of the entry.</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Gets or sets the coordinates of the upper-left corner of the dialog box. (Inherited from RasCommonDialog.)</td>
</tr>
<tr>
<td><strong>NoRename</strong></td>
<td>Gets or sets a value indicating whether entries cannot be renamed while in edit mode.</td>
</tr>
<tr>
<td><strong>PhoneBookPath</strong></td>
<td>Gets or sets the full path (including filename) to the phone book.</td>
</tr>
<tr>
<td><strong>Site</strong></td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>Style</strong></td>
<td>Gets or sets the style of dialog box to display.</td>
</tr>
<tr>
<td><strong>Tag</strong></td>
<td>Gets or sets an object that contains data about the control. (Inherited from CommonDialog.)</td>
</tr>
</tbody>
</table>
See Also

- RasEntryDialog Class
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryDialog.EntryName Property

Gets or sets the name of the entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public string EntryName { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property EntryName As String Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property String^ EntryName { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member EntryName : string with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
See Also

RasEntryDialog Class
RasEntryDialog Members
DotRas Namespace
RasEntryDialog.NoRename Property

Gets or sets a value indicating whether entries cannot be renamed while in edit mode.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public bool NoRename { get; set; }</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Property NoRename As Boolean</code></td>
</tr>
<tr>
<td>Get</td>
</tr>
<tr>
<td>Set</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public: property bool NoRename {</code></td>
</tr>
<tr>
<td><code>   bool get ();</code></td>
</tr>
<tr>
<td><code>   void set (bool value);</code></td>
</tr>
<tr>
<td><code>}</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>member NoRename : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasEntryDialog Class
RasEntryDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryDialog.PhoneBookPath Property

Gets or sets the full path (including filename) to the phone book.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public string PhoneBookPath { get; set; }
```

#### Visual Basic

```vbnet
Public Property PhoneBookPath As String
    Get
    Set
```

#### Visual C++

```csharp
public:
    property String^ PhoneBookPath {
        String^ get ();
        void set (String^ value);
    }
```

#### F#

```fsharp
member PhoneBookPath : string with get, set
```

### Property Value

Type: **String**
See Also

RasEntryDialog Class
RasEntryDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryDialog.Style Property

Gets or sets the style of dialog box to display.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public RasDialogStyle Style { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Style As RasDialogStyle Get Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property RasDialogStyle Style { RasDialogStyle get (); void set (RasDialogStyle value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member Style : RasDialogStyle with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasDialogStyle](#)
See Also

RasEntryDialog Class
RasEntryDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntryDialog** type exposes the following members.
### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the dialog has encountered an error. (Inherited from <code>RasCommonDialog</code>.)</td>
</tr>
<tr>
<td>HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasEntryDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Validates the format of an entry name for a phone book. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

public sealed class RasEntryNameValidator

Visual Basic

Public NotInheritable Class RasEntryNameValidator

Visual C++

public ref class RasEntryNameValidator sealed

F#

[<SealedAttribute>]
type RasEntryNameValidator = class end
Remarks

The name must contain at least one non-whitespace alphanumeric character.
### Examples

The following example shows how to use the **RasEntryNameValidator** to validate an entry does not already exist within a phone book. After the **Validate()** method has been called, the **IsValid** property will indicate whether the entry name is valid.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEntryNameValidator validator = new RasEntryNameValidator();</td>
</tr>
<tr>
<td>validator.EntryName = &quot;VPN Connection&quot;;</td>
</tr>
<tr>
<td>validator.PhoneBookPath = RasPhoneBook.GetPhoneBookPath();</td>
</tr>
<tr>
<td>validator.AllowExistingEntries = false;</td>
</tr>
<tr>
<td>validator.Validate();</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim validator As New RasEntryNameValidator</td>
</tr>
<tr>
<td>validator.EntryName = &quot;VPN Connection&quot;</td>
</tr>
<tr>
<td>validator.PhoneBookPath = RasPhoneBook.GetPhoneBookPath();</td>
</tr>
<tr>
<td>validator.AllowExistingEntries = False</td>
</tr>
<tr>
<td>validator.Validate();</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasEntryNameValidator
See Also

- RasEntryNameValidator Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntryNameValidator** type exposes the following members.
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEntryNameValidator</td>
<td>Initializes a new instance of the RasEntryNameValidator class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <strong>Object</strong> is equal to the current <strong>Object</strong>. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <strong>Object</strong>.)</td>
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<td><strong>GetType</strong></td>
<td>Gets the <strong>Type</strong> of the current instance. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <strong>Object</strong>.)</td>
</tr>
<tr>
<td><strong>Validate</strong></td>
<td>Evaluates the condition it checks, and updates the <strong>IsValid</strong> property.</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowExistingEntries</td>
<td>Gets or sets a value indicating whether existing entries will be allowed.</td>
</tr>
<tr>
<td>AllowNonExistentPhoneBook</td>
<td>Gets or sets a value indicating whether nonexistent phone books are allowed.</td>
</tr>
<tr>
<td>EntryName</td>
<td>Gets or sets the entry name to validate.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the error code, if any, that occurred during validation.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets or sets the error message.</td>
</tr>
<tr>
<td>IsValid</td>
<td>Gets or sets a value indicating whether the entry name is valid.</td>
</tr>
<tr>
<td>PhoneBookPath</td>
<td>Gets or sets the phone book path to validate the entry name against.</td>
</tr>
</tbody>
</table>
See Also

RasEntryNameValidator Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryNameValidator Constructor

Initializes a new instance of the RasEntryNameValidator class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
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</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasEntryNameValidator()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasEntryNameValidator()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; RasEntryNameValidator</code></td>
</tr>
</tbody>
</table>
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntryNameValidator** type exposes the following members.
# Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>Validate</strong></td>
<td>Evaluates the condition it checks, and updates the <a href="#">IsValid</a> property.</td>
</tr>
</tbody>
</table>
See Also

- RasEntryNameValidator Class
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryNameValidator.Validate Method

Evaluates the condition it checks, and updates the IsValid property.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public void Validate()</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Sub Validate</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public: void Validate()</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>member Validate : unit -&gt; unit</code></td>
</tr>
</tbody>
</table>
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasEntryNameValidator** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowExistingEntries</td>
<td>Gets or sets a value indicating whether existing entries will be allowed.</td>
</tr>
<tr>
<td>AllowNonExistentPhoneBook</td>
<td>Gets or sets a value indicating whether nonexistent phone books are allowed.</td>
</tr>
<tr>
<td>EntryName</td>
<td>Gets or sets the entry name to validate.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the error code, if any, that occurred during validation.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets or sets the error message.</td>
</tr>
<tr>
<td>IsValid</td>
<td>Gets or sets a value indicating whether the entry name is valid.</td>
</tr>
<tr>
<td>PhoneBookPath</td>
<td>Gets or sets the phone book path to validate the entry name against.</td>
</tr>
</tbody>
</table>
See Also

RasEntryNameValidator Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether existing entries will be allowed.

**Namespace: DotRas**

**Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)**
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool AllowExistingEntries { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property AllowExistingEntries As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool AllowExistingEntries { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member AllowExistingEntries : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: Boolean
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace
RasEntryNameValidator.AllowNonExistentPhoneBook Property

Gets or sets a value indicating whether nonexistent phone books are allowed.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public bool AllowNonExistentPhoneBook { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property AllowNonExistentPhoneBook As Boolean Get Set</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property bool AllowNonExistentPhoneBook {</td>
</tr>
<tr>
<td>bool get ();</td>
</tr>
<tr>
<td>void set (bool value);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>member AllowNonExistentPhoneBook : bool with get, set</td>
</tr>
</tbody>
</table>

**Property Value**

Type: Boolean
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the entry name to validate.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public string EntryName { get; set; }
```

#### Visual Basic

```vbnet
Public Property EntryName As String
    Get
    Set
```

#### Visual C++

```cpp
public:
    property String^ EntryName { 
        String^ get ();
        void set (String^ value);
    }
```

#### F#

```fsharp
member EntryName : string with get, set
```

### Property Value

- **Type:** String
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace
Gets the error code, if any, that occurred during validation.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public int ErrorCode { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property ErrorCode As Integer Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property int ErrorCode { int get () ; }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32]
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryNameValidator ErrorMessage Property

Gets or sets the error message.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public string ErrorMessage { get; set; }
```

### Visual Basic

```vbnet
Public Property ErrorMessage As String
    Get
    Set
```

### Visual C++

```cpp
public:
property String^ ErrorMessage {
    String^ get ();
    void set (String^ value);
}
```

### F#

```fsharp
member ErrorMessage : string with get, set
```

---

**Property Value**

Type: String
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryNameValidator.IsValid Property

Gets or sets a value indicating whether the entry name is valid.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool IsValid { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property IsValid As Boolean
Get
Set` |
| **Visual C++** | `public:
property bool IsValid {
    bool get ();
    void set (bool value);
} ` |
| **F#**    | `member IsValid : bool with get, set` |

### Property Value

Type: [Boolean](#)
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryNameValidator.PhoneBookPath Property

Gets or sets the phone book path to validate the entry name against.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public string PhoneBookPath { get; set; }
```

**Visual Basic**

```vbnet
Public Property PhoneBookPath As String
    Get
    Set
```

**Visual C++**

```cpp
public:
    property String^ PhoneBookPath {
        String^ get ();
        void set (String^ value);
    }
```

**F#**

```fsharp
member PhoneBookPath : string with get, set
```

### Property Value

Type: [String](#)
See Also

RasEntryNameValidator Class
RasEntryNameValidator Members
DotRas Namespace

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RasEntryOptions Class

Represents options for a remote access service (RAS) entry. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>[SerializableAttribute]</code>&lt;br&gt;public sealed class RasEntryOptions : ICloneable</td>
<td><code>&lt;SerializableAttribute&gt;</code>&lt;br&gt;Public NotInheritable Class RasEntryOptions&lt;br&gt;Implements ICloneable</td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;public ref class RasEntryOptions sealed : ICloneable</td>
<td><code>[&lt;SealedAttribute&gt;]</code>&lt;br&gt;[&lt;SerializableAttribute&gt;]&lt;br&gt;type RasEntryOptions =&lt;br&gt;class&lt;br&gt;    interface ICloneable&lt;br&gt;end</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasEntryOptions
See Also

RasEntryOptions Members
DotRas Namespace

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The `RasEntryOptions` type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasEntryOptions</td>
<td>Initializes a new instance of the RasEntryOptions class.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>Clone</td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified object is equal to the current object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CacheCredentials</td>
<td>Gets or sets a value indicating whether the user credentials will be cached at the end of a successful authentication.</td>
</tr>
<tr>
<td>CustomEncryption</td>
<td>Gets or sets a value indicating whether the connection will use custom encryption.</td>
</tr>
<tr>
<td>CustomScript</td>
<td>Gets or sets a value indicating whether the remote access service must invoke a custom scripting assembly after establishing a connection.</td>
</tr>
<tr>
<td>DisableClassBasedStaticRoute</td>
<td>Gets or sets a value indicating whether a class based route based on the VPN interface IP address will not be added.</td>
</tr>
<tr>
<td>DisableIkeNameEkuCheck</td>
<td>Gets or sets a value indicating whether the IKE validation check will not be performed.</td>
</tr>
<tr>
<td>DisableLcpExtensions</td>
<td>Gets or sets a value indicating whether the remote access service will disable the PPP LCP extensions.</td>
</tr>
<tr>
<td>DisableMobility</td>
<td>Gets or sets a value indicating whether the client will not be able to change the external IP.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Address of the IKEv2 VPN</strong></td>
<td>Indicates the address of the IKEv2 VPN connection.</td>
</tr>
<tr>
<td><strong>DisableNbtOverIP</strong></td>
<td>Gets or sets a value indicating whether NBT probing is disabled for this connection.</td>
</tr>
<tr>
<td><strong>DoNotNegotiateMultilink</strong></td>
<td>Gets or sets a value indicating whether the default behavior is not to negotiate multilink.</td>
</tr>
<tr>
<td><strong>DoNotUseRasCredentials</strong></td>
<td>Gets or sets a value indicating whether the default credentials to access network resources.</td>
</tr>
<tr>
<td><strong>Internet</strong></td>
<td>Gets or sets a value indicating whether the entry connects to the Internet.</td>
</tr>
<tr>
<td><strong>IPHeaderCompression</strong></td>
<td>Gets or sets a value indicating whether IP header compression will be used on PPP (Point-to-Point) connections.</td>
</tr>
<tr>
<td><strong>IPv6RemoteDefaultGateway</strong></td>
<td>Gets or sets a value indicating whether the remote default gateway will be used on an IPv6 connection.</td>
</tr>
<tr>
<td><strong>ModemLights</strong></td>
<td>Gets or sets a value indicating whether the remote access service will display a status monitor in the taskbar.</td>
</tr>
<tr>
<td><strong>NetworkLogOn</strong></td>
<td>Gets or sets a value indicating whether the remote access service logs onto the network after the</td>
</tr>
</tbody>
</table>
PPP (Point-to-Point) connection is established.

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PreviewDomain</td>
<td>Gets or sets a value indicating whether the remote access dialer should display the domain name prior to dialing.</td>
</tr>
<tr>
<td>PreviewPhoneNumber</td>
<td>Gets or sets a value indicating whether the remote access dialer should display the phone number being dialed.</td>
</tr>
<tr>
<td>PreviewUserPassword</td>
<td>Gets or sets a value indicating whether the remote access dialer should display the username and password prior to dialing.</td>
</tr>
<tr>
<td>PromoteAlternates</td>
<td>Gets or sets a value indicating whether alternate numbers are promoted to the primary number when connected successfully.</td>
</tr>
<tr>
<td>ReconnectIfDropped</td>
<td>Gets or sets a value indicating whether the remote access service should attempt to re-establish the connection if the connection is lost.</td>
</tr>
<tr>
<td>RegisterIPWithDns</td>
<td>Gets or sets a value indicating whether the IP address should be registered with the DNS server when connected.</td>
</tr>
<tr>
<td>RemoteDefaultGateway</td>
<td>Gets or sets a value indicating whether the remote default gateway will be used.</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>RequireChap</strong></td>
<td>Gets or sets a value indicating whether the Challenge Handshake Authentication Protocol (CHAP) must be supported for authentication.</td>
</tr>
<tr>
<td><strong>RequireDataEncryption</strong></td>
<td>Gets or sets a value indicating whether data encryption must be negotiated successfully or the connection should be dropped.</td>
</tr>
<tr>
<td><strong>RequireEap</strong></td>
<td>Gets or sets a value indicating whether the Extensible Authentication Protocol (EAP) must be supported for authentication.</td>
</tr>
<tr>
<td><strong>RequireEncryptedPassword</strong></td>
<td>Gets or sets a value indicating whether only secure password schemes can be used to authenticate the client.</td>
</tr>
<tr>
<td><strong>RequireMachineCertificates</strong></td>
<td>Gets or sets a value indicating whether machine certificates are used for IKEv2 authentication.</td>
</tr>
<tr>
<td><strong>RequireMSChap</strong></td>
<td>Gets or sets a value indicating whether the Microsoft Challenge Handshake Authentication Protocol (MSCHAP) must be supported for authentication.</td>
</tr>
<tr>
<td><strong>RequireMSChap2</strong></td>
<td>Gets or sets a value indicating whether the Microsoft Challenge Handshake Authentication Protocol (MSCHAP) must be supported for authentication.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handshake Authentication Protocol (MSCHAP) version 2 must be supported for authentication.</td>
<td></td>
</tr>
<tr>
<td>RequireMSEncryptedPassword</td>
<td>Gets or sets a value indicating whether only the Microsoft secure password scheme (MSCHAP) can be used to authenticate the client.</td>
</tr>
<tr>
<td>RequirePap</td>
<td>Gets or sets a value indicating whether the Password Authentication Protocol (PAP) must be supported for authentication.</td>
</tr>
<tr>
<td>RequireSpap</td>
<td>Gets or sets a value indicating whether the Shiva's Password Authentication Protocol (SPAP) must be supported for authentication.</td>
</tr>
<tr>
<td>RequireWin95MSChap</td>
<td>Gets or sets a value indicating whether MSCHAP must also send the LAN Manager hashed password.</td>
</tr>
<tr>
<td>SecureClientForMSNet</td>
<td>Gets or sets a value indicating whether the client will be secured for Microsoft networks.</td>
</tr>
<tr>
<td>SecureFileAndPrint</td>
<td>Gets or sets a value indicating whether users will be prevented from using file and print servers over the connection.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>SecureLocalFiles</strong></td>
<td>Gets or sets a value indicating whether an existing remote file system and remote printer bindings are located before making a connection.</td>
</tr>
<tr>
<td><strong>SecureRoutingCompartment</strong></td>
<td>Gets or sets a value indicating whether the routing compartments feature is enabled.</td>
</tr>
<tr>
<td><strong>SharedPhoneNumbers</strong></td>
<td>Gets or sets a value indicating whether all modems on the computer will share the same phone number.</td>
</tr>
<tr>
<td><strong>SharePhoneNumbers</strong></td>
<td>Gets or sets a value indicating whether the same set of phone numbers are used for all subentries in a multilink connection.</td>
</tr>
<tr>
<td><strong>ShowDialingProgress</strong></td>
<td>Gets or sets a value indicating whether the remote access dialer should display its progress while establishing the connection.</td>
</tr>
<tr>
<td><strong>SoftwareCompression</strong></td>
<td>Gets or sets a value indicating whether software compression will be negotiated by the link.</td>
</tr>
<tr>
<td><strong>TerminalAfterDial</strong></td>
<td>Gets or sets a value indicating whether the remote access service displays a terminal window for user input after dialing the connection.</td>
</tr>
<tr>
<td><strong>TerminalBeforeDial</strong></td>
<td>Gets or sets a value indicating whether the</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Remote access service</td>
<td>Displays a terminal window for user input before dialing the connection.</td>
</tr>
<tr>
<td><strong>UseCountryAndAreaCodes</strong></td>
<td>Gets or sets a value indicating whether the country and area codes are used to construct the phone number.</td>
</tr>
<tr>
<td><strong>UseDnsSuffixForRegistration</strong></td>
<td>Gets or sets a value indicating whether the DNS suffix for this connection should be used for DNS registration.</td>
</tr>
<tr>
<td><strong>UseGlobalDeviceSettings</strong></td>
<td>Gets or sets a value indicating whether the global device settings will be used by the entry.</td>
</tr>
<tr>
<td><strong>UseLogOnCredentials</strong></td>
<td>Gets or sets a value indicating whether the remote access uses the currently logged on user credentials when dialing this entry.</td>
</tr>
<tr>
<td><strong>UsePreSharedKey</strong></td>
<td>Gets or sets a value indicating whether a pre-shared key is used for IPSec authentication.</td>
</tr>
<tr>
<td><strong>UsePreSharedKeyForIkeV2Initiator</strong></td>
<td>Gets or sets a value indicating whether a pre-shared key is used by the initiator for IPSec authentication.</td>
</tr>
<tr>
<td><strong>UsePreSharedKeyForIkeV2Responder</strong></td>
<td>Gets or sets a value indicating whether a pre-shared key is used by the responder for IPSec</td>
</tr>
<tr>
<td>UseTypicalSettings</td>
<td>Gets or sets a value indicating whether a connection should be configured to use the typical settings for authentication and encryption.</td>
</tr>
</tbody>
</table>
See Also

RasEntryOptions Class
DotRas Namespace
RasEntryOptions Constructor

Initializes a new instance of the RasEntryOptions class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public RasEntryOptions()</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public Sub New</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: RasEntryOptions()</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>new : unit -&gt; RasEntryOptions</code></td>
<td></td>
</tr>
</tbody>
</table>
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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The **RasEntryOptions** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasEntryOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.Clone Method

Creates a copy of this object.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public Object Clone()</code></td>
<td><code>Public Function Clone As Object</code></td>
<td><code>public: virtual Object^ Clone() sealed</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F#</td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>abstract Clone : unit -&gt; Object</code></td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>override Clone : unit -&gt; Object</code></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: [Object](#)

A new [RasEntryOptions](#) object.

### Implements

[ICloneable.Clone](#)
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasEntryOptions` type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CacheCredentials</td>
<td>Gets or sets a value indicating whether the user credentials will be cached at the end of a successful authentication.</td>
</tr>
<tr>
<td>CustomEncryption</td>
<td>Gets or sets a value indicating whether the connection will use custom encryption.</td>
</tr>
<tr>
<td>CustomScript</td>
<td>Gets or sets a value indicating whether the remote access service must invoke a custom scripting assembly after establishing a connection.</td>
</tr>
<tr>
<td>DisableClassBasedStaticRoute</td>
<td>Gets or sets a value indicating whether a class based route based on the VPN interface IP address will not be added.</td>
</tr>
<tr>
<td>DisableIkeNameEkuCheck</td>
<td>Gets or sets a value indicating whether the IKE validation check will not be performed.</td>
</tr>
<tr>
<td>DisableLcpExtensions</td>
<td>Gets or sets a value indicating whether the remote access service will disable the PPP LCP extensions.</td>
</tr>
<tr>
<td>DisableMobility</td>
<td>Gets or sets a value indicating whether the client will not be able to change the external IP.</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Address of the IKEv2 VPN connection.</td>
<td></td>
</tr>
<tr>
<td><strong>DisableNbtOverIP</strong></td>
<td>Gets or sets a value indicating whether NBT probing is disabled for this connection.</td>
</tr>
<tr>
<td><strong>DoNotNegotiateMultilink</strong></td>
<td>Gets or sets a value indicating whether the default behavior is not to negotiate multilink.</td>
</tr>
<tr>
<td><strong>DoNotUseRasCredentials</strong></td>
<td>Gets or sets a value indicating whether the default credentials to access network resources.</td>
</tr>
<tr>
<td><strong>Internet</strong></td>
<td>Gets or sets a value indicating whether the entry connects to the Internet.</td>
</tr>
<tr>
<td><strong>IPHeaderCompression</strong></td>
<td>Gets or sets a value indicating whether IP header compression will be used on PPP (Point-to-Point) connections.</td>
</tr>
<tr>
<td><strong>IPv6RemoteDefaultGateway</strong></td>
<td>Gets or sets a value indicating whether the remote default gateway will be used on an IPv6 connection.</td>
</tr>
<tr>
<td><strong>ModemLights</strong></td>
<td>Gets or sets a value indicating whether the remote access service will display a status monitor in the taskbar.</td>
</tr>
<tr>
<td><strong>NetworkLogOn</strong></td>
<td>Gets or sets a value indicating whether the remote access service logs onto the network after the</td>
</tr>
</tbody>
</table>
PPP (Point-to-Point) connection is established.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PreviewDomain</td>
<td>Gets or sets a value indicating whether the remote access dialer should display the domain name prior to dialing.</td>
</tr>
<tr>
<td>PreviewPhoneNumber</td>
<td>Gets or sets a value indicating whether the remote access dialer should display the phone number being dialed.</td>
</tr>
<tr>
<td>PreviewUserPassword</td>
<td>Gets or sets a value indicating whether the remote access dialer should display the username and password prior to dialing.</td>
</tr>
<tr>
<td>PromoteAlternates</td>
<td>Gets or sets a value indicating whether alternate numbers are promoted to the primary number when connected successfully.</td>
</tr>
<tr>
<td>ReconnectIfDropped</td>
<td>Gets or sets a value indicating whether the remote access service should attempt to re-establish the connection if the connection is lost.</td>
</tr>
<tr>
<td>RegisterIPWithDns</td>
<td>Gets or sets a value indicating whether the IP address should be registered with the DNS server when connected.</td>
</tr>
<tr>
<td>RemoteDefaultGateway</td>
<td>Gets or sets a value indicating whether the remote default gateway will be used.</td>
</tr>
<tr>
<td>Requirement</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RequireChap</td>
<td>Gets or sets a value indicating whether the Challenge Handshake Authentication Protocol (CHAP) must be supported for authentication.</td>
</tr>
<tr>
<td>RequireDataEncryption</td>
<td>Gets or sets a value indicating whether data encryption must be negotiated successfully or the connection should be dropped.</td>
</tr>
<tr>
<td>RequireEap</td>
<td>Gets or sets a value indicating whether the Extensible Authentication Protocol (EAP) must be supported for authentication.</td>
</tr>
<tr>
<td>RequireEncryptedPassword</td>
<td>Gets or sets a value indicating whether only secure password schemes can be used to authenticate the client.</td>
</tr>
<tr>
<td>RequireMachineCertificates</td>
<td>Gets or sets a value indicating whether machine certificates are used for IKEv2 authentication.</td>
</tr>
<tr>
<td>RequireMSChap</td>
<td>Gets or sets a value indicating whether the Microsoft Challenge Handshake Authentication Protocol (MSCHAP) must be supported for authentication.</td>
</tr>
<tr>
<td>RequireMSChap2</td>
<td>Gets or sets a value indicating whether the Microsoft Challenge</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Handshake Authentication</td>
<td>Protocol (MSCHAP) version 2 must be supported for authentication.</td>
</tr>
<tr>
<td>RequireMSEncryptedPassword</td>
<td>Gets or sets a value indicating whether only the Microsoft secure password scheme (MSCHAP) can be used to authenticate the client.</td>
</tr>
<tr>
<td>RequirePap</td>
<td>Gets or sets a value indicating whether the Password Authentication Protocol (PAP) must be supported for authentication.</td>
</tr>
<tr>
<td>RequireSpap</td>
<td>Gets or sets a value indicating whether the Shiva's Password Authentication Protocol (SPAP) must be supported for authentication.</td>
</tr>
<tr>
<td>RequireWin95MSChap</td>
<td>Gets or sets a value indicating whether MSCHAP must also send the LAN Manager hashed password.</td>
</tr>
<tr>
<td>SecureClientForMSNet</td>
<td>Gets or sets a value indicating whether the client will be secured for Microsoft networks.</td>
</tr>
<tr>
<td>SecureFileAndPrint</td>
<td>Gets or sets a value indicating whether users will be prevented from using file and print servers over the connection.</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>SecureLocalFiles</strong></td>
<td>Gets or sets a value indicating whether an existing remote file system and remote printer bindings are located before making a connection.</td>
</tr>
<tr>
<td><strong>SecureRoutingCompartment</strong></td>
<td>Gets or sets a value indicating whether the routing compartments feature is enabled.</td>
</tr>
<tr>
<td><strong>SharedPhoneNumbers</strong></td>
<td>Gets or sets a value indicating whether all modems on the computer will share the same phone number.</td>
</tr>
<tr>
<td><strong>SharePhoneNumbers</strong></td>
<td>Gets or sets a value indicating whether the same set of phone numbers are used for all subentries in a multilink connection.</td>
</tr>
<tr>
<td><strong>ShowDialingProgress</strong></td>
<td>Gets or sets a value indicating whether the remote access dialer should display its progress while establishing the connection.</td>
</tr>
<tr>
<td><strong>SoftwareCompression</strong></td>
<td>Gets or sets a value indicating whether software compression will be negotiated by the link.</td>
</tr>
<tr>
<td><strong>TerminalAfterDial</strong></td>
<td>Gets or sets a value indicating whether the remote access service displays a terminal window for user input after dialing the connection.</td>
</tr>
<tr>
<td><strong>TerminalBeforeDial</strong></td>
<td>Gets or sets a value indicating whether the...</td>
</tr>
</tbody>
</table>
remote access service displays a terminal window for user input before dialing the connection.

<table>
<thead>
<tr>
<th><strong>UseCountryAndAreaCodes</strong></th>
<th>Gets or sets a value indicating whether the country and area codes are used to construct the phone number.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UseDnsSuffixForRegistration</strong></td>
<td>Gets or sets a value indicating whether the DNS suffix for this connection should be used for DNS registration.</td>
</tr>
<tr>
<td><strong>UseGlobalDeviceSettings</strong></td>
<td>Gets or sets a value indicating whether the global device settings will be used by the entry.</td>
</tr>
<tr>
<td><strong>UseLogOnCredentials</strong></td>
<td>Gets or sets a value indicating whether the remote access uses the currently logged on user credentials when dialing this entry.</td>
</tr>
<tr>
<td><strong>UsePreSharedKey</strong></td>
<td>Gets or sets a value indicating whether a pre-shared key is used for IPSec authentication.</td>
</tr>
<tr>
<td><strong>UsePreSharedKeyForIkeV2Initiator</strong></td>
<td>Gets or sets a value indicating whether a pre-shared key is used by the initiator for IPSec authentication.</td>
</tr>
<tr>
<td><strong>UsePreSharedKeyForIkeV2Responder</strong></td>
<td>Gets or sets a value indicating whether a pre-shared key is used by the responder for IPSec authentication.</td>
</tr>
<tr>
<td>UseTypicalSettings</td>
<td>Gets or sets a value indicating whether a connection should be configured to use the typical settings for authentication and encryption.</td>
</tr>
</tbody>
</table>
See Also

RasEntryOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.CacheCredentials Property

Gets or sets a value indicating whether the user credentials will be cached at the end of a successful authentication.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool CacheCredentials { get; set; }
```

**Visual Basic**

```vbnet
Public Property CacheCredentials As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool CacheCredentials {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member CacheCredentials : bool with get, set
```

### Property Value

Type: **Boolean**
Remarks

This option corresponds to the **Remember my credentials** checkbox in the connection properties dialog box.

**Windows 8 and later:** This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the connection will use custom encryption.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public bool CustomEncryption { get; set; }
``` |
| Visual Basic | ```
Public Property CustomEncryption As Boolean
    Get
    Set
``` |
| Visual C++ | ```
public:
    property bool CustomEncryption {
        bool get ();
        void set (bool value);
    }
``` |
| F#       | ```
member CustomEncryption : bool with get, set
``` |

### Property Value

Type: [Boolean](#)
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.CustomScript Property

Gets or sets a value indicating whether the remote access service must invoke a custom scripting assembly after establishing a connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>public bool CustomScript { get; set; }</td>
<td>Public Property CustomScript As Boolean</td>
<td>public: property bool CustomScript {</td>
<td>member CustomScript : bool with get, set</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Get</td>
<td>bool get ();</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set</td>
<td>void set (bool value);</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**
Type: Boolean
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether a class based route based on the VPN interface IP address will not be added.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool DisableClassBasedStaticRoute { get; set; }
```

### Visual Basic

```vbnet
Public Property DisableClassBasedStaticRoute As Boolean
Get
Set
```

### Visual C++

```cpp
public:
property bool DisableClassBasedStaticRoute {
    bool get ();
    void set (bool value);
}
```

### F#

```fsharp
member DisableClassBasedStaticRoute : bool with get,
```

## Property Value

Type: [Boolean](#)
Remarks

Windows 7 and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace
RasEntryOptions.DisableIkeNameEkuCheck Property

Gets or sets a value indicating whether the IKE validation check will not be performed.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```
public bool DisableIkeNameEkuCheck { get; set; }
```

### Visual Basic

```
Public Property DisableIkeNameEkuCheck As Boolean
    Get
    Set
```

### Visual C++

```
public:
property bool DisableIkeNameEkuCheck {
    bool get ();
    void set (bool value);
}
```

### F#

```
member DisableIkeNameEkuCheck : bool with get, set
```

## Property Value

Type: **Boolean**
Remarks

Windows Vista and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.DisableLcpExtensions Property

Gets or sets a value indicating whether the remote access service will disable the PPP LCP extensions.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool DisableLcpExtensions { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property DisableLcpExtensions As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool DisableLcpExtensions { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member DisableLcpExtensions : bool with get, set</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Boolean](#)
Remarks

This option causes RAS to disable the PPP LCP extensions defined in RFC 1570. This may be necessary for certain older PPP implementations, but interferes with features such as server callback. Do not set this option unless specifically required.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.DisableMobility Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets or sets a value indicating whether the client will not be able to change the external IP address of the IKEv2 VPN connection.
### Syntax

#### C#

```csharp
public bool DisableMobility { get; set; }
```

#### Visual Basic

```vbnet
Public Property DisableMobility As Boolean
    Get
    Set
```

#### Visual C++

```cpp
public:
    property bool DisableMobility {
        bool get ();
        void set (bool value);
    }
```

#### F#

```fsharp
member DisableMobility : bool with get, set
```

### Property Value

Type: [Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean?view=netframework-4.8)
Remarks

Windows 7 and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether NBT probing is disabled for this connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool DisableNbtOverIP { get; set; }
```

### Visual Basic

```vbnet
Public Property DisableNbtOverIP As Boolean
    Get
    Set
```

### Visual C++

```cpp
public:
    property bool DisableNbtOverIP {
        bool get ();
        void set (bool value);
    }
```

### F#

```fsharp
member DisableNbtOverIP : bool with get, set
```

## Property Value

Type: [Boolean](#)
Remarks

Windows XP and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.DoNotNegotiateMultilink Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

 Gets or sets a value indicating whether the default behavior is not to negotiate multilink.
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool DoNotNegotiateMultilink { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property DoNotNegotiateMultilink As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool DoNotNegotiateMultilink { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member DoNotNegotiateMultilink : bool with get, set</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: `Boolean`
Remarks

This option is the equivalent of clearing the **Negotiate multi-link for single-link connection** checkbox in the connection properties dialog box on the PPP settings dialog.

**Windows XP and later**: This property is available.
See Also

- RasEntryOptions Class
- RasEntryOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.DoNotUseRasCredentials Property

Gets or sets a value indicating whether the default credentials to access network resources.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public bool DoNotUseRasCredentials { get; set; }
``` |
| Visual Basic | ```
Public Property DoNotUseRasCredentials As Boolean
Get
Set
``` |
| Visual C++ | ```
public:
property bool DoNotUseRasCredentials {
    bool get ();
    void set (bool value);
}
``` |
| F#       | ```
member DoNotUseRasCredentials : bool with get, set
``` |

### Property Value

Type: [Boolean](#)
Remarks

Windows XP and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the entry connects to the Internet.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool Internet { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Internet As Boolean Get Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool Internet { bool get (); void set (bool value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member Internet : bool with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
Remarks

Windows XP and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.IPHeaderCompression Property

Gets or sets a value indicating whether IP header compression will be used on PPP (Point-to-Point) connections.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool IPHeaderCompression { get; set; }
```

**Visual Basic**

```vbnet
Public Property IPHeaderCompression As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool IPHeaderCompression {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member IPHeaderCompression : bool with get, set
```

### Property Value

Type: Boolean
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the remote default gateway will be used on an IPv6 connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool IPv6RemoteDefaultGateway { get; set; }
```

**Visual Basic**

```vbnet
Public Property IPv6RemoteDefaultGateway As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool IPv6RemoteDefaultGateway {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member IPv6RemoteDefaultGateway : bool with get, set
```

### Property Value

Type: **Boolean**
Remarks

Windows Vista and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.ModemLights Property

Gets or sets a value indicating whether the remote access service will display a status monitor in the taskbar.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool ModemLights { get; set; }
```

**Visual Basic**

```vbnet
Public Property ModemLights As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
property bool ModemLights {
    bool get ();
    void set (bool value);
}
```

**F#**

```fsharp
member ModemLights : bool with get, set
```

---

**Property Value**

Type: [Boolean](#)
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace
RasEntryOptions.NetworkLogOn Property

Gets or sets a value indicating whether the remote access service logs onto the network after the PPP (Point-to-Point) connection is established.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><code>public bool NetworkLogOn { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><code>Public Property NetworkLogOn As Boolean</code></td>
</tr>
<tr>
<td><code>Get</code></td>
</tr>
<tr>
<td><code>Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
</tr>
</tbody>
</table>
| `public:
property bool NetworkLogOn {
    bool get ();
    void set (bool value);
} ` |
| **F#** |
| `member NetworkLogOn : bool with get, set` |

### Property Value

Type: **Boolean**
See Also

- RasEntryOptions Class
- RasEntryOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.PreviewDomain Property

Gets or sets a value indicating whether the remote access dialer should display the domain name prior to dialing.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool PreviewDomain { get; set; }
```

### Visual Basic

```vbnet
Public Property PreviewDomain As Boolean
    Get
    Set
```

### Visual C++

```cpp
public:
    property bool PreviewDomain {
        bool get ();
        void set (bool value);
    }
```

### F#

```fsharp
member PreviewDomain : bool with get, set
```

## Property Value

Type: Boolean
Remarks

This option corresponds to the **Include Windows logon domain** checkbox in the connection properties dialog box.
See Also

- RasEntryOptions Class
- RasEntryOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.PreviewPhoneNumber Property

Gets or sets a value indicating whether the remote access dialer should display the phone number being dialed.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public bool PhoneNumber { get; set; }</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Property PhoneNumber As Boolean</td>
<td></td>
</tr>
<tr>
<td>Get</td>
<td></td>
</tr>
<tr>
<td>Set</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
</tbody>
</table>
| public:
| property bool PhoneNumber {
| bool get ();
| void set (bool value);
| }  |
| **F#** |  |
| member PhoneNumber : bool with get, set  |

**Property Value**

Type: [Boolean](#)
See Also

- RasEntryOptions Class
- RasEntryOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.PreviewUserPassword Property

Gets or sets a value indicating whether the remote access dialer should display the username and password prior to dialing.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool PreviewUserPassword { get; set; }
```

### Visual Basic

```vbnet
Public Property PreviewUserPassword As Boolean
    Get
    Set
```

### Visual C++

```cpp
public:
    property bool PreviewUserPassword {
        bool get();
        void set(bool value);
    }
```

### F#

```fsharp
member PreviewUserPassword : bool with get, set
```

## Property Value

Type: **Boolean**
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.PromoteAlternates Property

Gets or sets a value indicating whether alternate numbers are promoted to the primary number when connected successfully.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool PromoteAlternates { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property PromoteAlternates As Boolean Get Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool PromoteAlternates { bool get (); void set (bool value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member PromoteAlternates : bool with get, set</td>
</tr>
</tbody>
</table>

**Property Value**
Type: Boolean
Remarks

This option corresponds to the Move successful numbers to the top of the list checkbox in the Alternate Phone Numbers dialog box.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace
RasEntryOptions.ReconnectIfDropped Property

Gets or sets a value indicating whether the remote access service should attempt to re-establish the connection if the connection is lost.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool ReconnectIfDropped { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property ReconnectIfDropped As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool ReconnectIfDropped { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ReconnectIfDropped : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](https://docs.microsoft.com/en-us/dotnet/csharp/language-reference/keywords/boolean)
Remarks

This option corresponds to the **Redial if line is dropped** checkbox in the connection properties dialog box.

**Windows XP and later:** This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.RegisterIPWithDns Property

Gets or sets a value indicating whether the IP address should be registered with the DNS server when connected.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool RegisterIPWithDns { get; set; }</td>
</tr>
</tbody>
</table>
| **Visual Basic** | Public Property RegisterIPWithDns As Boolean  
                      Get  
                      Set |
| **Visual C++** | public:  
             property bool RegisterIPWithDns {  
                 bool get ();  
                 void set (bool value);  
             } |
| **F#**    | member RegisterIPWithDns : bool with get, set |

**Property Value**

Type: Boolean
Remarks

Windows Vista and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.RemoteDefaultGateway Property

Gets or sets a value indicating whether the remote default gateway will be used.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public bool RemoteDefaultGateway { get; set; }
```

#### Visual Basic

```vbnet
Public Property RemoteDefaultGateway As Boolean
    Get
    Set
```

#### Visual C++

```cpp
public:
    property bool RemoteDefaultGateway {
        bool get ();
        void set (bool value);
    }
```

#### F#

```fsharp
member RemoteDefaultGateway : bool with get, set
```

### Property Value

Type: **Boolean**
Remarks

This value corresponds to the **Use default gateway on remote network** checkbox in the TCP/IP settings dialog box.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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RasEntryOptions.RequireChap Property

Gets or sets a value indicating whether the Challenge Handshake Authentication Protocol (CHAP) must be supported for authentication.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public bool RequireChap { get; set; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Property RequireChap As Boolean Get Set</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property bool RequireChap { bool get (); void set (bool value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member RequireChap : bool with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: Boolean
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether data encryption must be negotiated successfully or the connection should be dropped.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool RequireDataEncryption { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property RequireDataEncryption As Boolean</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool RequireDataEncryption {</code></td>
</tr>
<tr>
<td></td>
<td><code>    bool get ();</code></td>
</tr>
<tr>
<td></td>
<td><code>    void set (bool value);</code></td>
</tr>
<tr>
<td></td>
<td><code>}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member RequireDataEncryption : bool with get, set</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Boolean](#)
Remarks

This option corresponds to the **Require Data Encryption** checkbox in the Security settings dialog box.

This option is ignored unless the **RequireMSEncryptedPassword** option is also set.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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RasEntryOptions.RequireEap Property

Gets or sets a value indicating whether the Extensible Authentication Protocol (EAP) must be supported for authentication.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
# Syntax

**C#**

```csharp
public bool RequireEap { get; set; }
```

**Visual Basic**

```vbnet
Public Property RequireEap As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool RequireEap {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member RequireEap : bool with get, set
```

## Property Value

Type: **Boolean**
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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RasEntryOptions.RequireEncryptedPassword Property

`RasEntryOptions` Class  See Also  Send Feedback

Gets or sets a value indicating whether only secure password schemes can be used to authenticate the client.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool RequireEncryptedPassword { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property RequireEncryptedPassword As Boolean Get Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool RequireEncryptedPassword { bool get (); void set (bool value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member RequireEncryptedPassword : bool with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
Remarks

If this option is set, only secure password schemes can be used to authenticate the client with the server. This prevents the PPP driver from using the PAP plain-text authentication protocol (PAP) to authenticate the client, however MD5-CHAP and SPAP are supported. Clear this option for increased interoperability, and set it for increased security. Setting this option also sets the RequireSpap, RequireChap, RequireMS Chap, and RequireMS Chap2 options.

This option corresponds to the Require Encrypted Password checkbox in the Security settings dialog box.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.RequireMachineCertificates Property

Gets or sets a value indicating whether machine certificates are used for IKEv2 authentication.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public bool RequireMachineCertificates { get; set; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Property RequireMachineCertificates As Boolean Get Set</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property bool RequireMachineCertificates { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member RequireMachineCertificates : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean]
Remarks

Windows 7 and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.RequireMS Chap Property

Gets or sets a value indicating whether the Microsoft Challenge Handshake Authentication Protocol (MSCHAP) must be supported for authentication.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool RequireMSChap { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property RequireMSChap As Boolean
Get
Set` |
| **Visual C++** | `public:
property bool RequireMSChap {
    bool get ();
    void set (bool value);
}  ` |
| **F#**     | `member RequireMSChap : bool with get, set` |

#### Property Value

Type: [Boolean](#)
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.RequireMS Chap2 Property

Gets or sets a value indicating whether the Microsoft Challenge Handshake Authentication Protocol (MSCHAP) version 2 must be supported for authentication.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public bool RequireMSChap2 { get; set; }
```

**Visual Basic**

```vbnet
Public Property RequireMSChap2 As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool RequireMSChap2 { 
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member RequireMSChap2 : bool with get, set
```

**Property Value**
Type: **Boolean**
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace
RasEntryOptions.RequireMSEncryptedPassword Property

Gets or sets a value indicating whether only the Microsoft secure password scheme (MSCHAP) can be used to authenticate the client.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public bool RequireMSEncryptedPassword { get; set; }
```

**Visual Basic**

```vbnet
Public Property RequireMSEncryptedPassword As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool RequireMSEncryptedPassword {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member RequireMSEncryptedPassword : bool with get, set
```

**Property Value**

Type: Boolean
Remarks

If this option is set, only the Microsoft secure password scheme, MSCHAP, can be used to authenticate the client with the server. This flag prevents the PPP driver from using the PPP plain-text authentication protocol (PAP), MD5-CHAP, or SPAP. Setting this option also sets the RequireMS Chap and RequireMS Chap2 options.

This option corresponds to the **Require Microsoft Encrypted Password** checkbox in the Security settings dialog box.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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RasEntryOptions.RequirePap Property

Gets or sets a value indicating whether the Password Authentication Protocol (PAP) must be supported for authentication.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool RequirePap { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property RequirePap As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool RequirePap { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member RequirePap : bool with get, set</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: **Boolean**
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the Shiva's Password Authentication Protocol (SPAP) must be supported for authentication.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public bool RequireSpap { get; set; }
```

Visual Basic

```vbnet
Public Property RequireSpap As Boolean
    Get
    Set
```

Visual C++

```cpp
public:
    property bool RequireSpap {
        bool get();
        void set(bool value);
    }
```

F#

```fsharp
member RequireSpap : bool with get, set
```

Property Value

Type: **Boolean**
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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Gets or sets a value indicating whether MSCHAP must also send the LAN Manager hashed password.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public bool RequireWin95MSChap { get; set; }
```

**Visual Basic**

```vbnet
Public Property RequireWin95MSChap As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool RequireWin95MSChap {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member RequireWin95MSChap : bool with get, set
```

### Property Value

Type: **Boolean**
Remarks

This option also requires the RequireMS Chap option is set.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.SecureClientForMSNet Property

Gets or sets a value indicating whether the client will be secured for Microsoft networks.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool SecureClientForMSNet { get; set; }
```

### Visual Basic

```vbnet
Public Property SecureClientForMSNet As Boolean
Get
Set
```

### Visual C++

```cpp
public:
property bool SecureClientForMSNet {
    bool get ();
    void set (bool value);
}
```

### F#

```fsharp
member SecureClientForMSNet : bool with get, set
```

## Property Value

Type: [Boolean](#)
Remarks

This option is the equivalent of clearing the Client for Microsoft Networks checkbox in the connection properties dialog box.

Windows XP and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.SecureFileAndPrint Property

Gets or sets a value indicating whether users will be prevented from using file and print servers over the connection.

Namespace: **DotRas**
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool SecureFileAndPrint { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property SecureFileAndPrint As Boolean</code></td>
</tr>
<tr>
<td></td>
<td><code>Get</code></td>
</tr>
<tr>
<td></td>
<td><code>Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool SecureFileAndPrint {</code></td>
</tr>
<tr>
<td></td>
<td><code>    bool get ();</code></td>
</tr>
<tr>
<td></td>
<td><code>    void set (bool value);</code></td>
</tr>
<tr>
<td></td>
<td><code>}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member SecureFileAndPrint : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
Remarks

This option is the equivalent of clearing the **File and Print Sharing for Microsoft Networks** checkbox in the connection properties dialog box.

**Windows XP and later:** This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.SecureLocalFiles Property

Gets or sets a value indicating whether an existing remote file system and remote printer bindings are located before making a connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool SecureLocalFiles { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property SecureLocalFiles As Boolean</td>
</tr>
<tr>
<td></td>
<td>Get</td>
</tr>
<tr>
<td></td>
<td>Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property bool SecureLocalFiles {</td>
</tr>
<tr>
<td></td>
<td>bool get ();</td>
</tr>
<tr>
<td></td>
<td>void set (bool value);</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member SecureLocalFiles : bool with get, set</td>
</tr>
</tbody>
</table>

## Property Value

Type: [Boolean](#)
See Also

- RasEntryOptions Class
- RasEntryOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.SecureRoutingCompartment Property

Gets or sets a value indicating whether the routing compartments feature is enabled.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
| `public bool SecureRoutingCompartment { get; set; }` | `Public Property SecureRoutingCompartment As Boolean Get Set` | `public: property bool SecureRoutingCompartment {
    bool get();
    void set (bool value);
} ` | `member SecureRoutingCompartment : bool with get, set` |

**Property Value**

Type: [Boolean](#)
Remarks

Windows Vista and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether all modems on the computer will share the same phone number.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool SharedPhoneNumbers { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property SharedPhoneNumbers As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool SharedPhoneNumbers { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member SharedPhoneNumbers : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

- RasEntryOptions Class
- RasEntryOptions Members
- DotRas Namespace
RasEntryOptions.SharePhoneNumbers Property

Gets or sets a value indicating whether the same set of phone numbers are used for all subentries in a multilink connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public bool SharePhoneNumbers { get; set; }
```

#### Visual Basic

```vbnet
Public Property SharePhoneNumbers As Boolean
    Get
        Set
    End Property
```

#### Visual C++

```cpp
public:
    property bool SharePhoneNumbers {
        bool get ();
        void set (bool value);
    }
```

#### F#

```fsharp
member SharePhoneNumbers : bool with get, set
```

### Property Value

Type: **Boolean**
Remarks

This option corresponds to the **All devices use the same number** checkbox in the connection properties dialog box.

**Windows XP and later:** This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.ShowDialingProgress Property

Gets or sets a value indicating whether the remote access dialer should display its progress while establishing the connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool ShowDialingProgress { get; set; }
```

**Visual Basic**

```vbnet
Public Property ShowDialingProgress As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool ShowDialingProgress {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member ShowDialingProgress : bool with get, set
```

### Property Value

**Type:** [Boolean](#)
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.SoftwareCompression Property

Gets or sets a value indicating whether software compression will be negotiated by the link.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool SoftwareCompression { get; set; }
```

**Visual Basic**

```vbnet
Public Property SoftwareCompression As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool SoftwareCompression {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member SoftwareCompression : bool with get, set
```

### Property Value

Type: [Boolean]
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the remote access service displays a terminal window for user input after dialing the connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public bool TerminalAfterDial { get; set; }
``` |
| **Visual Basic** | ```
Public Property TerminalAfterDial As Boolean
Get
Set
``` |
| **Visual C++** | ```
public:
property bool TerminalAfterDial {
    bool get();
    void set(bool value);
}
``` |
| **F#**   | ```
member TerminalAfterDial : bool with get, set
``` |

## Property Value

Type: [Boolean](#)
Remarks

This option only works if the entry is dialed by the RasDialDialog component. This option has no effect if the entry is dialed by RasDialer.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.TerminalBeforeDial Property

Gets or sets a value indicating whether the remote access service displays a terminal window for user input before dialing the connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public bool TerminalBeforeDial { get; set; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Property TerminalBeforeDial As Boolean Get Set</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: bool TerminalBeforeDial { bool get (); void set (bool value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member TerminalBeforeDial : bool with get, set</td>
</tr>
</tbody>
</table>

**Property Value**
Type: `Boolean`
Remarks

This option only works if the entry is dialed by the RasDialDialog component. This option has no effect if the entry is dialed by RasDialer.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.UseCountryAndAreaCodes Property

Gets or sets a value indicating whether the country and area codes are used to construct the phone number.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public bool UseCountryAndAreaCodes { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Public Property UseCountryAndAreaCodes As Boolean  
  Get  
  Set |
| **Visual C++** |
| public:  
  property bool UseCountryAndAreaCodes {  
    bool get ();  
    void set (bool value);  
  } |
| **F#**        |
| member UseCountryAndAreaCodes : bool with get, set |

**Property Value**
Type: Boolean
Remarks

This value corresponds to the **Use dialing rules** checkbox on the connection properties dialog box.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.UseDnsSuffixForRegistration Property

Gets or sets a value indicating whether the DNS suffix for this connection should be used for DNS registration.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool UseDnsSuffixForRegistration { get; set; }
```

**Visual Basic**

```vbnet
Public Property UseDnsSuffixForRegistration As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool UseDnsSuffixForRegistration {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member UseDnsSuffixForRegistration : bool with get, set
```

### Property Value

Type: [Boolean](#)
Remarks

Windows Vista and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.UseGlobalDeviceSettings Property

Gets or sets a value indicating whether the global device settings will be used by the entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public bool UseGlobalDeviceSettings { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property UseGlobalDeviceSettings As Boolean Get Set</td>
</tr>
</tbody>
</table>
| **Visual C++** | public: property bool UseGlobalDeviceSettings { 
| | bool get (); |
| | void set (bool value); |
| **F#**   | member UseGlobalDeviceSettings : bool with get, set |

### Property Value

Type: [Boolean](#)
Remarks

This option causes the entry device to be ignored.

Windows XP and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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RasEntryOptions.UseLogOnCredentials Property

Gets or sets a value indicating whether the remote access uses the currently logged on user credentials when dialing this entry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool UseLogOnCredentials { get; set; }
```

**Visual Basic**

```vbnet
Public Property UseLogOnCredentials As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool UseLogOnCredentials {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member UseLogOnCredentials : bool with get, set
```

### Property Value

Type: [Boolean](mailto:mailto)
Remarks

This option corresponds to the **Use Current Username and Password** checkbox in the Security settings dialog box.

This option is ignored unless the [RequireMSEncryptedPassword](#) option is also set.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.UsePreSharedKey Property

Gets or sets a value indicating whether a pre-shared key is used for IPSec authentication.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public bool UsePreSharedKey { get; set; }
``` |
| **Visual Basic** | ```
Public Property UsePreSharedKey As Boolean
Get
Set
``` |
| **Visual C++** | ```
public:
property bool UsePreSharedKey {
    bool get ();
    void set (bool value);
}
``` |
| **F#** | ```
member UsePreSharedKey : bool with get, set
``` |

### Property Value

- **Type:** Boolean
Remarks

Windows XP and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

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RasEntryOptions.UsePreSharedKeyForIkeV2Initiator Property

RasEntryOptions Class  See Also  Send Feedback

Gets or sets a value indicating whether a pre-shared key is used by the initiator for IPSec authentication.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool UsePreSharedKeyForIkeV2Initiator { get; set; }
```

**Visual Basic**

```vbnet
Public Property UsePreSharedKeyForIkeV2Initiator As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool UsePreSharedKeyForIkeV2Initiator {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member UsePreSharedKeyForIkeV2Initiator : bool with get,
```

### Property Value

Type: `Boolean`
Remarks

This flag is only used by IKEv2 tunnel based demand-dial connections.

**Windows 8 and later:** This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryOptions.UsePreSharedKeyForIkeV2Responder Property

Gets or sets a value indicating whether a pre-shared key is used by the responder for IPSec authentication.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public bool UsePreSharedKeyForIkeV2Responder { get; set; }
```

**Visual Basic**

```vbnet
Public Property UsePreSharedKeyForIkeV2Responder As Boolean
    Get
    Set
```

**Visual C++**

```cpp
public:
    property bool UsePreSharedKeyForIkeV2Responder {
        bool get ();
        void set (bool value);
    }
```

**F#**

```fsharp
member UsePreSharedKeyForIkeV2Responder : bool with get, set
```

## Property Value

Type: Boolean
Remarks

This flag is only used by IKEv2 tunnel based demand-dial connections.

Windows 8 and later: This property is available.
See Also

- RasEntryOptions Class
- RasEntryOptions Members
- DotRas Namespace

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RasEntryOptions.UseTypicalSettings Property

Gets or sets a value indicating whether a connection should be configured to use the typical settings for authentication and encryption.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public bool UseTypicalSettings { get; set; }</code></td>
<td><code>Public Property UseTypicalSettings As Boolean Get Set</code></td>
<td><code>public: property bool UseTypicalSettings { bool get (); void set (bool value); }</code></td>
<td><code>member UseTypicalSettings : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
Remarks

Windows Vista and later: This property is available.
See Also

RasEntryOptions Class
RasEntryOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasEntryType Enumeration

Defines the entry types.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum RasEntryType</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration RasEntryType</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public enum class RasEntryType</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>type RasEntryType</code></td>
</tr>
<tr>
<td>Member name</td>
<td>Value</td>
</tr>
<tr>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>None</td>
<td>0</td>
</tr>
<tr>
<td>Phone</td>
<td>1</td>
</tr>
<tr>
<td>Vpn</td>
<td>2</td>
</tr>
</tbody>
</table>
| Direct      | 3     | Direct serial or parallel connection.  
  *Windows Vista or later:* This value is no longer supported. |
| Internet    | 4     | Connection Manager (CM) connection.  
  *Note:* This member is reserved for system use only. |
| Broadband   | 5     | Broadband connection.  
  *Windows XP or later:* This value is supported. |
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Provides data for remote access service (RAS) error events.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
[SerializableAttribute]
public class RasErrorEventArgs : EventArgs
```

#### Visual Basic

```vbnet
<SerializableAttribute>
Public Class RasErrorEventArgs
    Inherits EventArgs
```

#### Visual C++

```cpp
[SerializableAttribute]
public ref class RasErrorEventArgs : public EventArgs
```

#### F#

```fsharp
[<SerializableAttribute>]
type RasErrorEventArgs =
    class
        inherit EventArgs
    end
```
Inheritance Hierarchy

System.Object
System.EventArgs
DotRas.RasErrorEventArgs
See Also

RasErrorEventArgs Members
DotRas Namespace

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The `RasErrorEventArgs` type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasErrorEventArgs</td>
<td>Initializes a new instance of the RasErrorEventArgs class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the extended error code (if any) that occurred.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets the error message for the error code that occurred.</td>
</tr>
</tbody>
</table>
See Also

RasErrorEventArgs Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasErrorEventArgs Constructor

Initializes a new instance of the RasErrorEventArgs class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasErrorEventArgs(
    int errorCode,
    string errorMessage
)
```

### Visual Basic

```vbnet
Public Sub New (
    errorCode As Integer,
    errorMessage As String
)
```

### Visual C++

```cpp
public:
RasErrorEventArgs(
    int errorCode,
    String^ errorMessage
)
```

### F#

```fsharp
new :
    errorCode : int *
    errorMessage : string -> RasErrorEventArgs
```

### Parameters

#### errorCode

Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)

The error code that occurred.

#### errorMessage
Type: `System.String`
The error message associated with the error code.
See Also

RasErrorEventArgs Class
RasErrorEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasErrorEventArgs` type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
</table>

---

In this table, we have listed some of the standard methods available in the .NET framework, specifically from the `System.Object` class. These methods serve various purposes, such as equality comparison, garbage collection management, hash code generation, type retrieval, shallow copying, and string representation. Each method has a brief description outlining its functionality.
See Also

RasErrorEventArgs Class
DotRas Namespace
The **RasErrorEventArgs** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the extended error code (if any) that occurred.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets the error message for the error code that occurred.</td>
</tr>
</tbody>
</table>
See Also

RasErrorEventArgs Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasErrorEventArgs>ErrorCode Property

Gets the extended error code (if any) that occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public int ErrorCode { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property ErrorCode As Integer
    Get
```

### Visual C++

```cpp
public:
    property int ErrorCode {
        int get ();
    }
```

### F#

```fsharp
member ErrorCode : int with get
```

## Property Value

Type: `Int32`
See Also

RasErrorEventArgs Class
RasErrorEventArgs Members
DotRas Namespace

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RasErrorEventArgs.ErrorMessage Property

Gets the error message for the error code that occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public string ErrorMessage { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property ErrorMessage As String
    Get
    End Get
```

### Visual C++

```cpp
public:
    property String^ ErrorMessage {
        String^ get ();
    }
```

### F#

```fsharp
member ErrorMessage : string with get
```

## Property Value

Type: [String](#)
See Also

RasErrorEventArgs Class
RasErrorEventArgs Members
DotRas Namespace
RasException Class

The exception that is thrown when a remote access service (RAS) error occurs.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
</tbody>
</table>
| `[SerializableAttribute]`  
`public class RasException : Exception` |  |
| **Visual Basic** |  |
| `<SerializableAttribute>`  
`Public Class RasException  
    Inherits Exception` |  |
| **Visual C++** |  |
| `[SerializableAttribute]`  
`public ref class RasException : public Exception` |  |
| **F#** |  |
| `[<SerializableAttribute>]`  
`type RasException =  
    class  
    inherit Exception  
end` |  |
Inheritance Hierarchy

- System.Object
- System.Exception
- DotRas.RasException
  - DotRas.RasDialException
See Also

RasException Members
DotRas Namespace
The **RasException** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasException()</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(Int32)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(String)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(SerializationInfo, StreamingContext)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(String, Exception)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetBaseException</strong></td>
<td>When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Populates a <a href="#">SerializationInfo</a> with the data needed to serialize the target object. (Overrides <a href="#">Exception</a>.GetObjectData(SerializationInfo, StreamingContext).)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data</strong></td>
<td>Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the error code that caused the exception.</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>Gets or sets a link to the help file associated with this exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>HResult</strong></td>
<td>Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>Gets the Exception instance that caused the current exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Gets a message that describes the current exception. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Gets or sets the name of the application or the object that causes the error. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>StackTrace</strong></td>
<td>Gets a string representation of the immediate frames on the call stack. (Inherited from Exception.)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>Gets the method that throws the current exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
See Also

- RasException Class
- DotRas Namespace

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RasException Constructor

RasException Class See Also Send Feedback
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasException()</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(Int32)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(String)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(SerializationInfo, StreamingContext)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
<tr>
<td>RasException(String, Exception)</td>
<td>Initializes a new instance of the RasException class.</td>
</tr>
</tbody>
</table>
See Also

RasException Class
RasException Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasException Constructor

Initializes a new instance of the RasException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public RasException()</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public Sub New</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: RasException()</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>new : unit -&gt; RasException</code></td>
<td></td>
</tr>
</tbody>
</table>
See Also

RasException Class
RasException Members
RasException Overload
DotRas Namespace
RasException Constructor (Int32)

Initializes a new instance of the RasException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | `public RasException(   
|          |   int errorCode  
|          | )` |
| Visual Basic | `Public Sub New (  
|              |   errorCode As Integer  
|              | )` |
| Visual C++ | `public:  
|           | RasException(  
|           |   int errorCode  
|           | )` |
| F#       | `new :  
|         |   errorCode : int -> RasException` |

### Parameters

**errorCode**  
Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)  
The error code that caused the exception.
See Also

RasException Class
RasException Members
RasException Overload
DotRas Namespace

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RasException Constructor (String)

Initializes a new instance of the RasException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasException(
    string message
)
```

### Visual Basic

```vbnet
Public Sub New (  
    message As String
)
```

### Visual C++

```cpp
public:
RasException(
    String^ message
)
```

### F#

```fsharp
new :  
    message : string -> RasException
```

## Parameters

**message**

Type: `System.String`

A message that describes the error.
See Also

RasException Class
RasException Members
RasException Overload
DotRas Namespace
RasException Constructor (SerializationInfo, StreamingContext)

Initializes a new instance of the RasException class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
protected RasException(
    SerializationInfo info,
    StreamingContext context
)
```

### Visual Basic

```vbnet
Protected Sub New (
    info As SerializationInfo,
    context As StreamingContext
)
```

### Visual C++

```cpp
protected:
RasException(
    SerializationInfo^ info,
    StreamingContext context
)
```

### F#

```fsharp
new :
    info : SerializationInfo *
    context : StreamingContext -> RasException
```

## Parameters

- **info**
  - Type: `System.Runtime.Serialization.SerializationInfo`
  - The object that holds the serialized object data.

- **context**
Type: **System.Runtime.Serialization.StreamingContext**
The contextual information about the source or destination.
See Also

- RasException Class
- RasException Members
- RasException Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Initializes a new instance of the **RasException** class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public RasException(
    string message,
    Exception innerException
)
``` |
| Visual Basic | ```
Public Sub New (
    message As String,
    innerException As Exception
)
``` |
| Visual C++ | ```
public:
RasException(
    String^ message,
    Exception^ innerException
)
``` |
| F#       | ```
new :
    message : string *
    innerException : Exception -> RasException
``` |

### Parameters

- **message**
  
  Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
  
  A message that describes the error.

- **innerException**
Type: `System.Exception`

The exception that is the cause of the current exception, or a null reference (`Nothing` in Visual Basic) if no inner exception is specified.
See Also

RasException Class
RasException Members
RasException Overload
DotRas Namespace

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The `RasException` type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>GetBaseException</strong></td>
<td>When overridden in a derived class, returns the <code>Exception</code> that is the root cause of one or more subsequent exceptions. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Populates a <code>SerializationInfo</code> with the data needed to serialize the target object. (Overrides <code>Exception.GetObjectData(SerializationInfo, StreamingContext)</code>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the runtime type of the current instance. (Inherited from <code>Exception</code>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Creates and returns a string representation of the current exception. (Inherited from <code>Exception</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasException.GetObjectData Method

RasException Class  See Also  Send Feedback

Overridden. Populates a SerializationInfo with the data needed to serialize the target object.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public override void GetObjectData(
    SerializationInfo info,
    StreamingContext context
)
```

**Visual Basic**

```vbnet
Public Overrides Sub GetObjectData ( 
    info As SerializationInfo, 
    context As StreamingContext 
)
```

**Visual C++**

```cpp
public:
    virtual void GetObjectData(
        SerializationInfo^ info, 
        StreamingContext context 
    ) override
```

**F#**

```fsharp
abstract GetObjectData : 
    info : SerializationInfo * 
    context : StreamingContext -> unit 

override GetObjectData : 
    info : SerializationInfo * 
    context : StreamingContext -> unit 
```

### Parameters

- **info**
  Type: `System.Runtime.Serialization.SerializationInfo`
The object that holds the serialized object data.

context
Type: System.Runtime.Serialization.StreamingContext
The contextual information about the source or destination.

**Implements**

ISerializable.GetObjectData(SerializationInfo, StreamingContext)
IOException.GetObjectData(SerializationInfo, StreamingContext)
See Also

RasException Class
RasException Members
DotRas Namespace

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The **RasException** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data</strong></td>
<td>Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the error code that caused the exception.</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>HResult</strong></td>
<td>Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Gets a message that describes the current exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>StackTrace</strong></td>
<td>Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasException Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasException.ErrorCode Property

Gets the error code that caused the exception.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public int ErrorCode { get; }</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public ReadOnly Property ErrorCode As Integer Get</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: property int ErrorCode { int get (); }</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>member ErrorCode : int with get</td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Int32](#)
See Also

RasException Class
RasException Members
DotRas Namespace

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The **RasException** type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from Exception.)</td>
</tr>
</tbody>
</table>
See Also

RasException Class
DotRas Namespace

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RasFramingProtocol Enumeration

Defines the framing protocols.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum RasFramingProtocol</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Enumeration RasFramingProtocol</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public enum class RasFramingProtocol</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type RasFramingProtocol</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No framing protocol specified.</td>
</tr>
<tr>
<td>Ppp</td>
<td>1</td>
<td>Point-to-point (PPP) protocol.</td>
</tr>
<tr>
<td>Slip</td>
<td>2</td>
<td>Serial Line Internet Protocol (SLIP).</td>
</tr>
<tr>
<td>Ras</td>
<td>4</td>
<td><strong>Obsolete.</strong> This member is no longer supported.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace

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RasHandle Class

Represents a wrapper class for remote access service (RAS) handles. This class cannot be inherited.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public sealed class RasHandle : SafeHandleZeroOrMinusOneIsInvalid IEquatable&lt;RasHandle&gt;</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public NotInheritable Class RasHandle Inherits SafeHandleZeroOrMinusOneIsInvalid Implements IEquatable(Of RasHandle)</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public ref class RasHandle sealed : public SafeHandleZeroOrMinusOneIsInvalid IEquatable&lt;RasHandle^&gt;</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>[&lt;SealedAttribute&gt;] type RasHandle = class inherit SafeHandleZeroOrMinusOneIsInvalid interface IEquatable&lt;RasHandle&gt; end</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
  System.Runtime.InteropServices.SafeHandle
    Microsoft.Win32.SafeHandles.SafeHandleZeroOrMinusOneIsInvalid
      DotRas.RasHandle
See Also

RasHandle Members
DotRas Namespace

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The **RasHandle** type exposes the following members.
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasHandle</td>
<td>Initializes a new instance of the RasHandle class.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Close</td>
<td>Marks the handle for releasing and freeing resources. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>DangerousAddRef</td>
<td>Manually increments the reference counter on SafeHandle instances. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>DangerousGetHandle</td>
<td>Returns the value of the handle field. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>DangerousRelease</td>
<td>Manually decrements the reference counter on a SafeHandle instance. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the SafeHandle class. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>Equals(Object)</td>
<td>Determines whether the specified Object is equal to the current Object. (Overrides Object.Equals(Object).)</td>
</tr>
<tr>
<td>Equals(RasHandle)</td>
<td>Determines whether the specified RasHandle is equal to the current RasHandle.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Overrides Object.GetHashCode().)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>SetHandleAsInvalid</td>
<td>Marks a handle as no longer used. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
## Operators

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equality</td>
<td>Determines whether two instances of RasHandle are equal.</td>
</tr>
<tr>
<td>Inequality</td>
<td>Determines whether two instances of RasHandle are not equal.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IsClosed</td>
<td>Gets a value indicating whether the handle is closed. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>IsInvalid</td>
<td>Gets a value that indicates whether the handle is invalid. (Inherited from SafeHandleZeroOrMinusOneIsInvalid.)</td>
</tr>
<tr>
<td>IsMultilink</td>
<td>Gets a value indicating whether the handle is for a single-link in a multi-link connection.</td>
</tr>
</tbody>
</table>
See Also

RasHandle Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasHandle Constructor

Initializes a new instance of the RasHandle class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th><strong>Syntax</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><code>public RasHandle()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
</tr>
<tr>
<td><code>public: RasHandle()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
</tr>
<tr>
<td><code>new : unit -&gt; RasHandle</code></td>
</tr>
</tbody>
</table>
See Also

RasHandle Class
RasHandle Members
DotRas Namespace
The **RasHandle** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close</td>
<td>Marks the handle for releasing and freeing resources. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>DangerousAddRef</td>
<td>Manually increments the reference counter on SafeHandle instances. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>DangerousGetHandle</td>
<td>Returns the value of the handle field. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>DangerousRelease</td>
<td>Manually decrements the reference counter on a SafeHandle instance. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the SafeHandle class. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>Equals(Object)</td>
<td>Determines whether the specified Object is equal to the current Object. (Overrides Object.Equals(Object).)</td>
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<tr>
<td>Equals(RasHandle)</td>
<td>Determines whether the specified RasHandle is equal to the current RasHandle.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Overrides Object.GetHashCode().)</td>
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<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
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<tr>
<td>SetHandleAsInvalid</td>
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</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
See Also

RasHandle Class
DotRas Namespace

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RasHandle.Equals Method

RasHandle Class See Also Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals(Object)</code></td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Overrids <code>Object.Equals(Object)</code>.)</td>
</tr>
<tr>
<td><code>Equals(RasHandle)</code></td>
<td>Determines whether the specified <code>RasHandle</code> is equal to the current <code>RasHandle</code>.</td>
</tr>
</tbody>
</table>
See Also

RasHandle Class
RasHandle Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Determines whether the specified Object is equal to the current Object.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public override bool Equals( Object obj )</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Overrides Function Equals ( obj As Object ) As Boolean</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: virtual bool Equals( Object^ obj ) override</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>abstract Equals : obj : Object -&gt; bool</code> override Equals : obj : Object -&gt; bool</td>
</tr>
</tbody>
</table>

### Parameters

**obj**

Type: `System.Object`

The `Object` to compare with the current `Object`.

### Return Value

Type: `Boolean`
true if \( obj \) is equal to the current object, otherwise false.
See Also

RasHandle Class
RasHandle Members
Equals Overload
DotRas Namespace

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DotRas SDK Documentation

RasHandle.Equals Method (RasHandle)

RasHandle Class  See Also  Send Feedback

Determines whether the specified RasHandle is equal to the current RasHandle.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public bool Equals(
    RasHandle other
)
```

**Visual Basic**

```vbnet
Public Function Equals (this As RasHandle
    other As RasHandle
) As Boolean
```

**Visual C++**

```cpp
public:
virtual bool Equals(
    RasHandle^ other
) sealed
```

**F#**

```fsharp
abstract Equals :
    other : RasHandle -> bool
override Equals :
    other : RasHandle -> bool
```

### Parameters

**other**

Type: `DotRas.RasHandle`

The `RasHandle` to compare with the current `RasHandle`. 

### Return Value

Type: `Boolean`
true if other is equal to the current object, otherwise false.

Implements
IEquatable<T>, Equals(T)
See Also

RasHandle Class
RasHandle Members
Equals Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Serves as a hash function for a particular type.

**Namespace:** [DotRas](http://example.com/DotRas)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public override int GetHashCode()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Overrides Function GetHashCode As Integer</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: virtual int GetHashCode() override</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>abstract GetHashCode : unit -&gt; int override GetHashCode : unit -&gt; int</code></td>
</tr>
</tbody>
</table>

### Return Value

Type: **Int32**

The hash code for the instance.
See Also

RasHandle Class
RasHandle Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasHandle** type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equality</td>
<td>Determines whether two instances of RasHandle are equal.</td>
</tr>
<tr>
<td>Inequality</td>
<td>Determines whether two instances of RasHandle are not equal.</td>
</tr>
</tbody>
</table>
See Also

RasHandle Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Determines whether two instances of RasHandle are equal.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public static bool operator ==(RasHandle objA, RasHandle objB)
```

### Visual Basic

```vbnet
Public Shared Operator = (objA As RasHandle, objB As RasHandle) As Boolean
```

### Visual C++

```cpp
public:
static bool operator ==(RasHandle^ objA, RasHandle^ objB)
```

### F#

```fsharp
static let inline (=
   objA : RasHandle *
   objB : RasHandle : bool
```

## Parameters

- **objA**
  Type: `DotRas.RasHandle`
  The first `RasHandle` to compare.

- **objB**
Type: DotRas.RasHandle
The second RasHandle to compare.

**Return Value**
Type: Boolean
true if objA equals objB, otherwise false.
See Also

RasHandle Class
RasHandle Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Determines whether two instances of `RasHandle` are not equal.

**Namespace:** `DotRas`

**Assembly:** `DotRas` (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public static bool operator !=(
    RasHandle objA,
    RasHandle objB
)
```

### Visual Basic

```vbnet
Public Shared Operator <> (    objA As RasHandle,
    objB As RasHandle
) As Boolean
```

### Visual C++

```cpp
public:
static bool operator !=(
    RasHandle^ objA,
    RasHandle^ objB
)
```

### F#

```fsharp
static let inline (<>)
    objA : RasHandle *
    objB : RasHandle : bool
```

### Parameters

**objA**

Type: [DotRas.RasHandle](#)

The first [RasHandle](#) to compare.

**objB**
Type: DotRas.RasHandle
The second RasHandle to compare.

**Return Value**
Type: Boolean
true if objA does not equal objB, otherwise false.
See Also

RasHandle Class
RasHandle Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasHandle** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IsClosed</td>
<td>Gets a value indicating whether the handle is closed. (Inherited from SafeHandle.)</td>
</tr>
<tr>
<td>IsInvalid</td>
<td>Gets a value that indicates whether the handle is invalid. (Inherited from SafeHandleZeroOrMinusOneIsInvalid.)</td>
</tr>
<tr>
<td>IsMultilink</td>
<td>Gets a value indicating whether the handle is for a single-link in a multi-link connection.</td>
</tr>
</tbody>
</table>
See Also

RasHandle Class
DotRas Namespace
RasHandle.IsMultilink Property

Gets a value indicating whether the handle is for a single-link in a multi-link connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **C#**   | ```
  public bool IsMultilink { get; }
``` |
| **Visual Basic** | ```
  Public ReadOnly Property IsMultilink As Boolean
  Get
``` |
| **Visual C++** | ```
  public:
  property bool IsMultilink {
    bool get ();
  }
``` |
| **F#** | ```
  member IsMultilink : bool with get
``` |

## Property Value

Type: [Boolean](http://example.com/boolean)
See Also

RasHandle Class
RasHandle Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains constants used to specify remote access service (RAS) idle disconnect timeouts.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public static class RasIdleDisconnectTimeout</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public NotInheritable Class RasIdleDisconnectTimeout</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public ref class RasIdleDisconnectTimeout abstract sealed</code></td>
</tr>
</tbody>
</table>
| **F#**    | `[<AbstractClassAttribute>]`  
            `[<SealedAttribute>]`  
            `type RasIdleDisconnectTimeout = class end` |
Inheritance Hierarchy

System.Object

DotRas.RasIdleDisconnectTimeout
See Also

RasIdleDisconnectTimeout Members
DotRas Namespace
The RasIdleDisconnectTimeout type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>The idle timeout is the default value.</td>
</tr>
<tr>
<td>Disabled</td>
<td>There is no idle timeout for this connection.</td>
</tr>
</tbody>
</table>
See Also

RasIdleDisconnectTimeout Class
DotRas Namespace

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RasIdleDisconnectTimeout Fields

See Also Send Feedback

The RasIdleDisconnectTimeout type exposes the following members.
## Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>The idle timeout is the default value.</td>
</tr>
<tr>
<td>Disabled</td>
<td>There is no idle timeout for this connection.</td>
</tr>
</tbody>
</table>
See Also

RasIdleDisconnectTimeout Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIdleDisconnectTimeout.Default Field

The idle timeout is the default value.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public const int Default
```

### Visual Basic

```vbnet
Public Const Default As Integer
```

### Visual C++

```cpp
public:
    literal int Default
```

### F#

```fsharp
static val mutable Default : int
```

## Field Value

**Type:** Int32
See Also

RasIdleDisconnectTimeout Class
RasIdleDisconnectTimeout Members
DotRas Namespace
There is no idle timeout for this connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public const int Disabled</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const Disabled As Integer</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: literal int Disabled</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>static val mutable Disabled: int</code></td>
</tr>
</tbody>
</table>

### Field Value

Type: [Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
See Also

RasIdleDisconnectTimeout Class
RasIdleDisconnectTimeout Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2AuthenticationType Enumeration

Defines the Internet Key Exchange (IKEv2) authentication types.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public enum RasIkeV2AuthenticationType</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Enumeration RasIkeV2AuthenticationType</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public enum class RasIkeV2AuthenticationType</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>type RasIkeV2AuthenticationType</td>
<td></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No authentication.</td>
</tr>
<tr>
<td>X509Certificate</td>
<td>1</td>
<td>X.509 Public Key Infrastructure Certificate.</td>
</tr>
<tr>
<td>Eap</td>
<td>2</td>
<td>Extensible Authentication Protocol (EAP).</td>
</tr>
</tbody>
</table>
Remarks

Known Limitations:

- This type is only available on Windows 7 and later operating systems.
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains the result of an Internet Key Exchange (IKEv2) projection operation. This class cannot be inherited.

**Namespace:**  [DotRas](#)

**Assembly:**  DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute]</code> public sealed class RasIkeV2Info</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt;</code> Public NotInheritable Class RasIkeV2Info</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute]</code> public ref class RasIkeV2Info sealed</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;]</code> <code>[&lt;SerializableAttribute&gt;]</code> type RasIkeV2Info = class end</td>
</tr>
</tbody>
</table>
Remarks

This object is created from an IkeV2 projection operation on a connection.

Known Limitations:

- This type is only available on Windows 7 and later operating systems.
### Examples

This example shows how to perform an IKEv2 projection operation on an active connection.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasConnection connection = RasConnection.GetActiveConnection();</td>
</tr>
<tr>
<td>if (connection != null)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>RasIkeV2Info info = (RasIkeV2Info)connection.GetProjectionInfo(RasProjectionType.IkeV2);</td>
</tr>
<tr>
<td>if (info != null)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>// info now contains the IKEv2 projection data</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim connection As RasConnection = RasConnection.GetActiveConnection();</td>
</tr>
<tr>
<td>If connection IsNot Nothing Then</td>
</tr>
<tr>
<td>Dim info As RasIkeV2Info = CType(connection.GetProjectionInfo(RasProjectionType.IkeV2), RasIkeV2Info);</td>
</tr>
<tr>
<td>If info IsNot Nothing Then</td>
</tr>
<tr>
<td>' info now contains the IKEv2 projection data</td>
</tr>
<tr>
<td>End If</td>
</tr>
<tr>
<td>End If</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasIkeV2Info
See Also

RasIkeV2Info Members
DotRas Namespace

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The **RasIkeV2Info** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>Determines whether the specified <a href="#">Object</a>. is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AuthenticationProtocol</code></td>
<td>Gets the authentication protocol used to authenticate the remote server.</td>
</tr>
<tr>
<td><code>EapTypeId</code></td>
<td>Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the client.</td>
</tr>
<tr>
<td><code>EncryptionMethod</code></td>
<td>Gets the encryption method used by the connection.</td>
</tr>
<tr>
<td><code>IPv4Address</code></td>
<td>Gets the IPv4 address of the local client.</td>
</tr>
<tr>
<td><code>IPv4NegotiationErrorCode</code></td>
<td>Gets the result of a PPP IPv4 network control protocol negotiation.</td>
</tr>
<tr>
<td><code>IPv6Address</code></td>
<td>Gets the IPv6 address of the local client.</td>
</tr>
<tr>
<td><code>IPv6NegotiationErrorCode</code></td>
<td>Gets the result of a PPP IPv6 network control protocol negotiation.</td>
</tr>
<tr>
<td><code>Options</code></td>
<td>Gets the IKEv2 options.</td>
</tr>
<tr>
<td><code>PrefixLength</code></td>
<td>Gets the length of the IPv6 prefix.</td>
</tr>
<tr>
<td><code>ServerIPv4Address</code></td>
<td>Gets the IPv4 address of the remote server.</td>
</tr>
<tr>
<td><code>ServerIPv4Addresses</code></td>
<td>Gets the collection of available IPv4 addresses the server can switch to on the IKEv2 connection.</td>
</tr>
<tr>
<td><code>ServerIPv6Address</code></td>
<td>Gets the IPv6 address of the remote server.</td>
</tr>
<tr>
<td><code>ServerIPv6Addresses</code></td>
<td>Gets the collection of available IPv6 addresses the server can switch to on the IKEv2 connection.</td>
</tr>
</tbody>
</table>
See Also

RasIkeV2Info Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIkeV2Info** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>).</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>).</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>).</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>).</td>
</tr>
</tbody>
</table>
**See Also**

- RasIkeV2Info Class
- DotRas Namespace

*Copyright (c) Jeff Winn. All rights reserved.*
The `RasIKEV2Info` type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationProtocol</td>
<td>Gets the authentication protocol used to authenticate the remote server.</td>
</tr>
<tr>
<td>EapTypeId</td>
<td>Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the client.</td>
</tr>
<tr>
<td>EncryptionMethod</td>
<td>Gets the encryption method used by the connection.</td>
</tr>
<tr>
<td>IPv4Address</td>
<td>Gets the IPv4 address of the local client.</td>
</tr>
<tr>
<td>Ipv4NegotiationErrorCode</td>
<td>Gets the result of a PPP IPv4 network control protocol negotiation.</td>
</tr>
<tr>
<td>IPv6Address</td>
<td>Gets the IPv6 address of the local client.</td>
</tr>
<tr>
<td>IPv6NegotiationErrorCode</td>
<td>Gets the result of a PPP IPv6 network control protocol negotiation.</td>
</tr>
<tr>
<td>Options</td>
<td>Gets the IKEv2 options.</td>
</tr>
<tr>
<td>PrefixLength</td>
<td>Gets the length of the IPv6 prefix.</td>
</tr>
<tr>
<td>ServerIPv4Address</td>
<td>Gets the IPv4 address of the remote server.</td>
</tr>
<tr>
<td>ServerIPv4Addresses</td>
<td>Gets the collection of available IPv4 addresses the server can switch to on the IKEv2 connection.</td>
</tr>
<tr>
<td>ServerIPv6Address</td>
<td>Gets the IPv6 address of the remote server.</td>
</tr>
<tr>
<td>ServerIPv6Addresses</td>
<td>Gets the collection of available IPv6 addresses the server can switch to on the IKEv2 connection.</td>
</tr>
</tbody>
</table>
See Also

- RasIkeV2Info Class
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the authentication protocol used to authenticate the remote server.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public RasIkeV2AuthenticationType AuthenticationProtocol
``` |
| Visual Basic | ```
Public ReadOnly Property AuthenticationProtocol As RasIkeV2AuthenticationType
``` |
| Visual C++ | ```
public:
property RasIkeV2AuthenticationType AuthenticationProtocol
RasIkeV2AuthenticationType get();
``` |
| F#       | ```
member AuthenticationProtocol : RasIkeV2AuthenticationType
``` |

### Property Value

Type: [RasIkeV2AuthenticationType](#)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.EapTypeId Property

Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the client.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public int EapTypeId { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property EapTypeId As Integer
    Get
```

**Visual C++**

```cpp
public:
    property int EapTypeId { 
        int get ();
    }
```

**F#**

```fsharp
member EapTypeId : int with get
```

### Property Value

Type: **Int32**
Remarks

This member is only valid if AuthenticationProtocol is Eap.
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.EncryptionMethod Property

Gets the encryption method used by the connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasIPSecEncryptionType EncryptionMethod { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property EncryptionMethod As RasIPSecEncryptionType
Get
```

**Visual C++**

```cpp
public:
property RasIPSecEncryptionType EncryptionMethod { 
RasIPSecEncryptionType get (); };
```

**F#**

```fsharp
member EncryptionMethod : RasIPSecEncryptionType with
```

### Property Value

Type: [RasIPSecEncryptionType](#)
See Also

Ras Ike V2 Info Class
Ras Ike V2 Info Members
DotRas Namespace

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RasIkeV2Info.IPv4Address Property

Gets the IPv4 address of the local client.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td></td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property IPv4Address As IPAddress Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td></td>
</tr>
<tr>
<td>F#</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: IPAddress
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.IPv4NegotiationErrorCode Property

Gets the result of a PPP IPv4 network control protocol negotiation.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public int IPv4NegotiationErrorCode { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property IPv4NegotiationErrorCode As Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property int IPv4NegotiationErrorCode {</code></td>
</tr>
<tr>
<td></td>
<td><code>        }</code></td>
</tr>
<tr>
<td></td>
<td><code>       int get ();</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member IPv4NegotiationErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: `Int32`
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.IPv6Address Property

Gets the IPv6 address of the local client.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public IPAddress IPv6Address { get; }
```

**Visual Basic**

```vbnet
Public Readonly Property IPv6Address As IPAddress
Get
```

**Visual C++**

```cpp
public:
property IPAddress^ IPv6Address { 
    IPAddress^ get ();
}
```

**F#**

```fsharp
member IPv6Address : IPAddress with get
```

### Property Value

Type: [IPAddress](#)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the result of a PPP IPv6 network control protocol negotiation.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public int IPv6NegotiationErrorCode { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property IPv6NegotiationErrorCode As Get
```

**Visual C++**

```cpp
public:
property int IPv6NegotiationErrorCode {
    int get ();
}
```

**F#**

```fsharp
member IPv6NegotiationErrorCode : int with get
```

**Property Value**

Type: **Int32**
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.Options Property

Gets the IKEv2 options.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasIkeV2Options Options { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property Options As RasIkeV2Options

Get
```

**Visual C++**

```cpp
public:
property RasIkeV2Options^ Options {
RasIkeV2Options^ get ()
}
```

**F#**

```fsharp
member Options : RasIkeV2Options with get
```

### Property Value

Type: [RasIkeV2Options](#)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace
RasIkeV2Info.PrefixLength Property

Gets the length of the IPv6 prefix.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
# Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public int PrefixLength { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property PrefixLength As Integer Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property int PrefixLength { int get (); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member PrefixLength : int with get</code></td>
</tr>
</tbody>
</table>

## Property Value
Type: [Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.ServerIPv4Address Property

Gets the IPv4 address of the remote server.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public IPAddress ServerIPv4Address { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ServerIPv4Address As IPAddress Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property IPAddress^ ServerIPv4Address { IPAddress^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ServerIPv4Address : IPAddress with get</code></td>
</tr>
</tbody>
</table>

## Property Value

Type: [IPAddress](#)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.ServerIPv4Addresses Property

Gets the collection of available IPv4 addresses the server can switch to on the IKEv2 connection.

**Namespace:** [DotRas](https://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public Collection&lt;IPAddress&gt; ServerIPv4Addresses { get</td>
</tr>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>Public ReadOnly Property ServerIPv4Addresses As Collection</td>
</tr>
<tr>
<td>Visual C++</td>
</tr>
<tr>
<td>public: property Collection&lt;IPAddress&gt; ServerIPv4Addresses</td>
</tr>
<tr>
<td>Collection&lt;IPAddress&gt;^  get ();</td>
</tr>
<tr>
<td>F#</td>
</tr>
<tr>
<td>member ServerIPv4Addresses : Collection&lt;IPAddress&gt; with</td>
</tr>
</tbody>
</table>

**Property Value**

Type: Collection(IPAddress)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.ServerIPv6Address Property

Gets the IPv6 address of the remote server.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public IPAddress ServerIPv6Address { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property ServerIPv6Address As IPAddress Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property IPAddress^ ServerIPv6Address { IPAddress^ get (); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ServerIPv6Address : IPAddress with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [IPAddress](#)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Info.ServerIPv6Addresses Property

Gets the collection of available IPv6 addresses the server can switch to on the IKEv2 connection.

**Namespace:** [DotRas](https://docs.dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public Collection<IPAddress> ServerIPv6Addresses { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property ServerIPv6Addresses As Collection
Get
```

### Visual C++

```cpp
public:
property Collection<IPAddress^>^ ServerIPv6Addresses
Collection<IPAddress^>^ get ();
```

### F#

```fsharp
member ServerIPv6Addresses : Collection<IPAddress> with
```

## Property Value

Type: [Collection](IPAddress)
See Also

RasIkeV2Info Class
RasIkeV2Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Options Class

Defines the Internet Key Exchange (IKEv2) options. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;public sealed class RasIkeV2Options</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt;</code>&lt;br&gt;Public NotInheritable Class RasIkeV2Options</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;public ref class RasIkeV2Options sealed</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;]</code>&lt;br&gt;[&lt;SerializableAttribute&gt;]`&lt;br&gt;type RasIkeV2Options = class end</td>
</tr>
</tbody>
</table>
Remarks

Known Limitations:

- This type is only available on Windows 7 and later operating systems.
Inheritance Hierarchy

System.Object
DotRas.RasIkeV2Options
See Also

RasIkeV2Options Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Options Members

The RasIkeV2Options type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClientBehindNat</td>
<td>Gets a value indicating whether the client is behind Network Address Translation (NAT).</td>
</tr>
<tr>
<td>MobileIke</td>
<td>Gets a value indicating whether the client supports the IKEv2 Mobility and Multi-homing (MOBIKE) protocol.</td>
</tr>
<tr>
<td>ServerBehindNat</td>
<td>Gets a value indicating whether the server is behind Network Address Translation (NAT).</td>
</tr>
</tbody>
</table>
See Also

RasIkeV2Options Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIkeV2Options** type exposes the following members.
# Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasIkeV2Options Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIkeV2Options** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClientBehindNat</td>
<td>Gets a value indicating whether the client is behind Network Address Translation (NAT).</td>
</tr>
<tr>
<td>MobileIke</td>
<td>Gets a value indicating whether the client supports the IKEv2 Mobility and Multi-homing (MOBIKE) protocol.</td>
</tr>
<tr>
<td>ServerBehindNat</td>
<td>Gets a value indicating whether the server is behind Network Address Translation (NAT).</td>
</tr>
</tbody>
</table>
See Also

RasIkeV2Options Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Options.ClientBehindNat Property

Gets a value indicating whether the client is behind Network Address Translation (NAT).

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool ClientBehindNat { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property ClientBehindNat As Boolean
Get
```

### Visual C++

```cpp
public:
property bool ClientBehindNat {
    bool get ();
}
```

### F#

```fsharp
member ClientBehindNat : bool with get
```

## Property Value

Type: [Boolean](https://www.example.com/boolean)
See Also

RasIkeV2Options Class
RasIkeV2Options Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Options.MobileIke Property

Gets a value indicating whether the client supports the IKEv2 Mobility and Multi-homing (MOBIKE) protocol.

**Namespace**: DotRas

**Assembly**: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
| ```c#```
public bool MobileIke { get; }
```c#``` | ```vb```
Public ReadOnly Property MobileIke As Boolean Get
```vb``` | ```cpp```
public:
property bool MobileIke {
    bool get ();
}
```cpp``` | ```f#```
member MobileIke : bool with get
```f#``` |

### Property Value

Type: [Boolean](#)
See Also

RasIkeV2Options Class
RasIkeV2Options Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIkeV2Options.ServerBehindNat Property

Gets a value indicating whether the server is behind Network Address Translation (NAT).

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**    | ```
public bool ServerBehindNat { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property ServerBehindNat As Boolean
Get
``` |
| **Visual C++** | ```
public:
property bool ServerBehindNat {
    bool get ();
}
``` |
| **F#**    | ```
member ServerBehindNat : bool with get
``` |

### Property Value

Type: [Boolean](#)
See Also

RasIkeV2Options Class
RasIkeV2Options Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains the result of an IP projection operation. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
[SerializableAttribute]
public sealed class RasIPInfo
```

**Visual Basic**

```vbnet
<SerializableAttribute>
Public NotInheritable Class RasIPInfo
```

**Visual C++**

```cpp
[SerializableAttribute]
public ref class RasIPInfo sealed
```

**F#**

```fsharp
[<SealedAttribute>]
[<SerializableAttribute>]
type RasIPInfo =  class end
```
Remarks

This object is created from an IP projection operation on a connection.
## Examples

This example shows how to perform an IP projection operation on an active connection.

### C#

```csharp
RasConnection connection = RasConnection.GetActiveConnectionByName();
if (connection != null)
{
    RasIPInfo info = (RasIPInfo)connection.GetProjectionInfo(RasProjectionType.IP);
    if (info != null)
    {
        // info now contains the IP projection data.
    }
}
```

### Visual Basic

```vbnet
Dim connection As RasConnection = RasConnection.GetActiveConnectionByName()
If connection IsNot Nothing Then
    Dim info As RasIPInfo = CType(connection.GetProjectionInfo(RasProjectionType.IP), RasIPInfo)
    If info IsNot Nothing Then
        ' info now contains the IP projection data.
    End If
End If
```
- Inheritance Hierarchy
  
  System.Object
  DotRas.RasIPInfo
See Also

RasIPInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIPInfo** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td><strong>Equals</strong></td>
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</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td><strong>IPAddress</strong></td>
<td>Gets the client IP address.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Gets the IPCP options for the local computer.</td>
</tr>
<tr>
<td><strong>ServerIPAddress</strong></td>
<td>Gets the server IP address.</td>
</tr>
<tr>
<td><strong>ServerOptions</strong></td>
<td>Gets the IPCP options for the remote computer.</td>
</tr>
</tbody>
</table>
See Also

RasIPInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIPInfo** type exposes the following members.
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See Also

RasIPInfo Class
DotRas Namespace

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The **RasIPIInfo** type exposes the following members.
## Properties

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<td>Gets the client IP address.</td>
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<td>Options</td>
<td>Gets the IPCP options for the local computer.</td>
</tr>
<tr>
<td>ServerIPAddress</td>
<td>Gets the server IP address.</td>
</tr>
<tr>
<td>ServerOptions</td>
<td>Gets the IPCP options for the remote computer.</td>
</tr>
</tbody>
</table>
See Also

RasIPInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPInfo.ErrorCode Property

Gets the error code (if any) that occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public int ErrorCode { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property ErrorCode As Integer Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property int ErrorCode { int get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member ErrorCode : int with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: **Int32**
Remarks

This member indicates the actual fatal error (if any) that occurred during the control protocol negotiation, the error that prevented the projection from completing successfully.
See Also

RasIPInfo Class
RasIPInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPInfo.IPAddress Property

Gets the client IP address.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
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<tbody>
<tr>
<td>C#</td>
<td>public IPAddress IPAddress { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property IPAddress As IPAddress Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property IPAddress^ IPAddress { IPAddress^ get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member IPAddress : IPAddress with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: IPAddress
See Also

RasIPInfo Class
RasIPInfo Members
DotRas Namespace
RasIPInfo.Options Property

Gets the IPCP options for the local computer.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
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<th>Language</th>
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<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasIPOptions Options { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>PublicReadOnly Property Options As RasIPOptions Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasIPOptions^ Options { RasIPOptions^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Options : RasIPOptions with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasIPOptions](#)
See Also

RasIPInfo Class
RasIPInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPInfo.ServerIPAddress Property

Gets the server IP address.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public IPAddress ServerIPAddress { get; }
```

Visual Basic

```vbnet
Public ReadOnly Property ServerIPAddress As IPAddress
Get
```

Visual C++

```cpp
public:
property IPAddress^ ServerIPAddress
{
    IPAddress^ get ();
}
```

F#

```fsharp
member ServerIPAddress : IPAddress with get
```

Property Value

Type: IPAddress
See Also

- RasIPInfo Class
- RasIPInfo Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPInfo.ServerOptions Property

Gets the IPCP options for the remote computer.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>C#</td>
<td><code>public RasIPOptions ServerOptions { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property ServerOptions As RasIPOptions Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property RasIPOptions^ ServerOptions { RasIPOptions^ get (); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ServerOptions : RasIPOptions with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasIPOptions](#)
See Also

RasIPInfo Class
RasIPInfo Members
DotRas Namespace

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RasIPOptions Class

Defines the remote access service (RAS) IPCP options.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
</tbody>
</table>
| `[SerializableAttribute]`  
public class RasIPOptions : ICloneable |  |
| **Visual Basic** |  |
| `<SerializableAttribute>`  
Public Class RasIPOptions  
Implements ICloneable |  |
| **Visual C++** |  |
| `[SerializableAttribute]`  
public ref class RasIPOptions : ICloneable |  |
| **F#** |  |
| `[<SerializableAttribute>]`  
type RasIPOptions =  
  class  
    interface ICloneable  
  end |  |
Inheritance Hierarchy

System.Object
DotRas.RasIPOptions
See Also

RasIPOptions Members
DotRas Namespace

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RasIPOptions Members

The RasIPOptions type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VJ</td>
<td>Gets a value indicating whether Van Jacobson compression is used.</td>
</tr>
</tbody>
</table>
See Also

- RasIPOptions Class
- DotRas Namespace

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The **RasIPOptions** type exposes the following members.
## Methods

<table>
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<tbody>
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<td><strong>Clone</strong></td>
<td>Creates a copy of this object.</td>
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<td><strong>Equals</strong></td>
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<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type.</td>
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<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance.</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object.</td>
</tr>
</tbody>
</table>

(Inherited from [Object](#))
See Also

RasIPOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPOptions.Clone Method

Creates a copy of this object.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

**C#**

```csharp
public Object Clone()
```

**Visual Basic**

```vbnet
Public Function Clone As Object
```

**Visual C++**

```cpp
public:
virtual Object^ Clone() sealed
```

**F#**

```fsharp
abstract Clone : unit -> Object
override Clone : unit -> Object
```

**Return Value**

Type: `Object`

A new `RasLcpOptions` object.

**Implements**

`ICloneable.Clone()`
See Also

RasIPOptions Class
RasIPOptions Members
DotRas Namespace

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The `RasIPOptions` type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VJ</td>
<td>Gets a value indicating whether Van Jacobson compression is used.</td>
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</table>
See Also

RasIPOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPOptions.VJ Property

Gets a value indicating whether Van Jacobson compression is used.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
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<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public  bool VJ { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public  ReadOnly Property VJ As Boolean Get</code></td>
</tr>
</tbody>
</table>
| Visual C++ | `public: property  bool VJ {  
                      bool get ();}

| F#         | `member VJ : bool with get`                                          |

### Property Value

Type: [Boolean](http://example.com/boolean)
See Also

RasIPOptions Class
RasIPOptions Members
DotRas Namespace

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RasIPSecEncryptionType Enumeration

Defines the IPSec encryption types.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
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<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public enum RasIPSecEncryptionType</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Enumeration RasIPSecEncryptionType</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public enum class RasIPSecEncryptionType</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>type RasIPSecEncryptionType</td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No encryption type specified.</td>
</tr>
<tr>
<td>Des</td>
<td>1</td>
<td>DES encryption.</td>
</tr>
<tr>
<td>TripleDes</td>
<td>2</td>
<td>Triple DES encryption.</td>
</tr>
<tr>
<td>Aes128</td>
<td>3</td>
<td>AES 128-bit encryption.</td>
</tr>
<tr>
<td>Aes192</td>
<td>4</td>
<td>AES 192-bit encryption.</td>
</tr>
<tr>
<td>Aes256</td>
<td>5</td>
<td>AES 256-bit encryption.</td>
</tr>
<tr>
<td>Max</td>
<td>6</td>
<td>Maximum encryption.</td>
</tr>
</tbody>
</table>
Remarks

Known Limitations:

- This type is only available on Windows 7 and later operating systems.
See Also

DotRas Namespace
Contains the result of an IPv6 projection operation. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
[SerializableAttribute]
public sealed class RasIPv6Info
```

**Visual Basic**

```vbnet
<SerializableAttribute>
Public NotInheritable Class RasIPv6Info
```

**Visual C++**

```c++
[SerializableAttribute]
public ref class RasIPv6Info sealed
```

**F#**

```fsharp
[<SealedAttribute>]
[<SerializableAttribute>]
type RasIPv6Info = class end
```
Remarks

This object is created from an IPv6 projection operation on a connection.

Known Limitations:

- This type is only available on Windows Vista and later operating systems.
Examples

This example shows how to perform an IPv6 projection operation on an active connection.

C#

RasConnection connection = RasConnection.GetActiveConnection();
if (connection != null)
{
    RasIPv6Info info = (RasIPv6Info)connection.GetProjectionInfo(RasProjectionType.IPv6);
    if (info != null)
    {
        // info now contains the IPv6 projection data.
    }
}

Visual Basic

Dim connection As RasConnection = RasConnection.GetActiveConnection()
If connection IsNot Nothing Then
    Dim info As RasIPv6Info = CType(connection.GetProjectionInfo(RasProjectionType.IPv6), RasIPv6Info)
    If info IsNot Nothing Then
        ' info now contains the IPv6 projection data.
    End If
End If
Inheritance Hierarchy

System.Object
DotRas.RasIPv6Info
See Also

RasIPv6Info Members
DotRas Namespace

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The RasIPv6Info type exposes the following members.
## Methods

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<th>Name</th>
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<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>LocalCompressionProtocol</td>
<td>Gets the local compression protocol.</td>
</tr>
<tr>
<td>LocalInterfaceIdentifier</td>
<td>Gets the local 64-bit IPv6 interface identifier.</td>
</tr>
<tr>
<td>PeerCompressionProtocol</td>
<td>Gets the remote compression protocol.</td>
</tr>
<tr>
<td>PeerInterfaceIdentifier</td>
<td>Gets the remote 64-bit IPv6 interface identifier.</td>
</tr>
</tbody>
</table>
See Also

RasIPv6Info Class
DotRas Namespace

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The **RasIPv6Info** type exposes the following members.
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<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
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</table>
See Also

RasIPv6Info Class
DotRas Namespace

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The **RasIPv6Info** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>LocalCompressionProtocol</td>
<td>Gets the local compression protocol.</td>
</tr>
<tr>
<td>LocalInterfaceIdentifier</td>
<td>Gets the local 64-bit IPv6 interface identifier.</td>
</tr>
<tr>
<td>PeerCompressionProtocol</td>
<td>Gets the remote compression protocol.</td>
</tr>
<tr>
<td>PeerInterfaceIdentifier</td>
<td>Gets the remote 64-bit IPv6 interface identifier.</td>
</tr>
</tbody>
</table>
See Also

RasIPv6Info Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPv6Info.ErrorCode Property

Gets the error code (if any) that occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
</tbody>
</table>
| ```
  public int ErrorCode {
      get; }
``` |
| **Visual Basic** |
| ```
  Public ReadOnly Property ErrorCode As Integer
      Get
``` |
| **Visual C++** |
| ```
  public:
  property int ErrorCode {
      int get ();
  }
``` |
| **F#** |
| ```
  member ErrorCode : int with get
``` |

### Property Value

Type: [Int32](#)
Remarks

This member indicates the actual fatal error (if any) that occurred during the control protocol negotiation, the error that prevented the projection from completing successfully.
See Also

RasIPv6Info Class
RasIPv6Info Members
DotRas Namespace

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RasIPv6Info.LocalCompressionProtocol Property

RasIPv6Info Class See Also Send Feedback

Gets the local compression protocol.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public short LocalCompressionProtocol { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property LocalCompressionProtocol As Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property short LocalCompressionProtocol { short get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member LocalCompressionProtocol : int16 with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: Int16
Remarks

Reserved for future use.
See Also

RasIPv6Info Class
RasIPv6Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPv6Info.LocalInterfaceIdentifier Property

Gets the local 64-bit IPv6 interface identifier.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public long LocalInterfaceIdentifier { get; }</code></td>
<td><code>Public ReadOnly Property LocalInterfaceIdentifier As Get</code></td>
<td><code>public: property long long LocalInterfaceIdentifier { long long get (); }</code></td>
<td><code>member LocalInterfaceIdentifier : int64 with get</code></td>
</tr>
</tbody>
</table>

## Property Value

Type: `Int64`
See Also

RasIPv6Info Class
RasIPv6Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIPv6Info.PeerCompressionProtocol Property

Gets the remote compression protocol.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public short PeerCompressionProtocol { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property PeerCompressionProtocol As Short
Get
```

**Visual C++**

```cpp
public:
property short PeerCompressionProtocol {
    short get ();
}
```

**F#**

```fsharp
member PeerCompressionProtocol : int16 with get
```

### Property Value

Type: **Int16**
Remarks

Reserved for future use.
See Also

RasIPv6Info Class
RasIPv6Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the remote 64-bit IPv6 interface identifier.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public long PeerInterfaceIdentifier { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property PeerInterfaceIdentifier As Long Get</code></td>
</tr>
</tbody>
</table>
| Visual C++ | `public: 
  property long long PeerInterfaceIdentifier {
    long long get ();
  }` |
| F#       | `member PeerInterfaceIdentifier : int64 with get` |

### Property Value

Type: [Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)
See Also

RasIPv6Info Class
RasIPv6Info Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains the result of an IPX projection operation. This class cannot be inherited.

**Namespace:** DotRas
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
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<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute] public sealed class RasIpXInfo</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt; Public NotInheritable Class RasIpXInfo</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute] public ref class RasIpXInfo sealed</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;] [SerializableAttribute] type RasIpXInfo = class end</code></td>
</tr>
</tbody>
</table>
Remarks

This object is created from an Ipx projection operation on a connection.
Examples

This example shows how to perform an IPX projection operation on an active connection.

**C#**

```csharp
RasConnection connection = RasConnection.GetActiveConnectionByName();
if (connection != null)
{
    RasIpxInfo info = (RasIpxInfo)connection.GetProjectionInfo(RasProjectionType.Ipx);
    if (info != null)
    {
        // info now contains the IPX projection data
    }
}
```

**Visual Basic**

```vbnet
Dim connection As RasConnection = RasConnection.GetActiveConnectionByName()
If connection IsNot Nothing Then
    Dim info As RasIpxInfo = CType(connection.GetProjectionInfo(RasProjectionType.Ipx), RasIpxInfo)
    If info IsNot Nothing Then
        ' info now contains the IPX projection data.
    End If
End If
```
Inheritance Hierarchy

System.Object
 DotRas.RasIpxInfo
See Also

RasIpxInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIpXInfo** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
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<tr>
<td><strong>Equals</strong></td>
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</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>IpXAddress</td>
<td>Gets the client IP address on the connection.</td>
</tr>
</tbody>
</table>
See Also

RasLpxInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIpxInfo** type exposes the following members.
### Methods

<table>
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<th>Description</th>
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</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

- RasIpxInfo Class
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasIpXInfo** type exposes the following members.
## Properties

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>IpAddress</td>
<td>Gets the client IP address on the connection.</td>
</tr>
</tbody>
</table>
See Also

RasIpxInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIpxInfo.ErrorCode Property

Gets the error code (if any) that occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int ErrorCode { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ErrorCode As Integer Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int ErrorCode { int get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: `Int32`
Remarks

This member indicates the actual fatal error (if any) that occurred during the control protocol negotiation, the error that prevented the projection from completing successfully.
See Also

RasLpxInfo Class
RasLpxInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasIpxInfo.IpxAddress Property

Gets the client IP address on the connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public IPAddress IpxAddress { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property IpxAddress As IPAddress
    Get
```

### Visual C++

```cpp
public:
    property IPAddress^ IpxAddress { 
        IPAddress^ get ();
    }
```

### F#

```fsharp
member IpxAddress : IPAddress with get
```

## Property Value

Type: [IPAddress](#)
See Also

RasIpxInfo Class
RasIpxInfo Members
DotRas Namespace

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RasIsolationState Enumeration

Describes the isolation state of a remote access service (RAS) connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public enum RasIsolationState</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Enumeration RasIsolationState</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public enum class RasIsolationState</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>type RasIsolationState</td>
<td></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown</td>
<td>0</td>
<td>The connection isolation state is unknown.</td>
</tr>
<tr>
<td>NotRestricted</td>
<td>1</td>
<td>The connection isolation state is not restricted.</td>
</tr>
<tr>
<td>InProbation</td>
<td>2</td>
<td>The connection isolation state is in probation.</td>
</tr>
<tr>
<td>RestrictedAccess</td>
<td>3</td>
<td>The connection isolation state is restricted access.</td>
</tr>
</tbody>
</table>
Remarks

Known Limitations:

- This type is only available on Windows Vista and later operating systems.
See Also

DotRas Namespace
RasLcpAuthenticationDataType Enumeration

Defines the Link Control Protocol (LCP) authentication data types.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum RasLcpAuthenticationDataType</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Enumeration RasLcpAuthenticationDataType</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public enum class RasLcpAuthenticationDataType</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type RasLcpAuthenticationDataType</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No authentication data used.</td>
</tr>
<tr>
<td>MD5Chap</td>
<td>5</td>
<td>MD5 Challenge Handshake Authentication Protocol.</td>
</tr>
<tr>
<td>MSChap</td>
<td>128</td>
<td>Challenge Handshake Authentication Protocol.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace

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RasLcpAuthenticationType Enumeration

Defines the Link Control Protocol (LCP) authentication protocol types.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum RasLcpAuthenticationType</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration RasLcpAuthenticationType</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public enum class RasLcpAuthenticationType</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>type RasLcpAuthenticationType</code></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No authentication protocol used.</td>
</tr>
<tr>
<td>Pap</td>
<td>49187</td>
<td>Password Authentication Protocol.</td>
</tr>
<tr>
<td>Spap</td>
<td>49191</td>
<td>Shiva Password Authentication Protocol.</td>
</tr>
<tr>
<td>Chap</td>
<td>49699</td>
<td>Challenge Handshake Authentication Protocol.</td>
</tr>
<tr>
<td>Eap</td>
<td>49703</td>
<td>Extensible Authentication Protocol.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains the result of a Link Control Protocol (LCP) multilink projection operation. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><code>[SerializableAttribute]</code> public sealed class RasLcpInfo</td>
<td><code>&lt;SerializableAttribute&gt;</code> Public NotInheritable Class RasLcpInfo</td>
<td><code>[SerializableAttribute]</code> public ref class RasLcpInfo sealed</td>
<td><code>[&lt;SealedAttribute&gt;]</code> <code>[&lt;SerializableAttribute&gt;]</code> type RasLcpInfo = class end</td>
</tr>
</tbody>
</table>
Remarks

This object is created from an Lcp projection operation on a connection.
**Examples**

This example shows how to perform an LCP projection operation on an active connection.

### C#

```csharp
RasConnection connection = RasConnection.GetActiveConnectionByName();
if (connection != null)
{
    RasLcpInfo info = (RasLcpInfo)connection.GetProjectionInfo(RasProjectionType.Lcp);
    if (info != null)
    {
        // info now contains the LCP projection data.
    }
}
```

### Visual Basic

```vbnet
Dim connection As RasConnection = RasConnection.GetActiveConnectionByName()
If connection IsNot Nothing Then
    Dim info As RasLcpInfo = CType(connection.GetProjectionInfo(RasProjectionType.Lcp), RasLcpInfo)
    If info IsNot Nothing Then
        ' info now contains the LCP projection data.
    End If
End If
```
Inheritance Hierarchy

System.Object
DotRas.RasLcpInfo
See Also

- RasLcpInfo Members
- DotRas Namespace

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The **RasLcpInfo** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://www.dotnetperls.com/object">Object</a> is equal to the current <a href="https://www.dotnetperls.com/object">Object</a>. (Inherited from <a href="https://www.dotnetperls.com/object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://www.dotnetperls.com/object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://www.dotnetperls.com/type">Type</a> of the current instance. (Inherited from <a href="https://www.dotnetperls.com/object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://www.dotnetperls.com/object">Object</a>.)</td>
</tr>
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</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AuthenticationData</strong></td>
<td>Gets the authentication data about the authentication protocol used by the client.</td>
</tr>
<tr>
<td><strong>AuthenticationProtocol</strong></td>
<td>Gets the authentication protocol used to authenticate the client.</td>
</tr>
<tr>
<td><strong>Bundled</strong></td>
<td>Gets a value indicating whether the connection is composed of multiple links.</td>
</tr>
<tr>
<td><strong>EapTypeId</strong></td>
<td>Gets the type id of the Extensible Authentication Protocol (EAP) used to authenticate the local computer.</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td><strong>Multilink</strong></td>
<td>Gets a value indicating whether the connection supports multilink.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Gets the additional options for the local computer.</td>
</tr>
<tr>
<td><strong>ReplyMessage</strong></td>
<td>Gets the message (if any) from the authentication protocol success/failure packet.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationData</strong></td>
<td>Gets the authentication data about the authentication protocol used by the server.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationProtocol</strong></td>
<td>Gets the authentication protocol used to authenticate the server.</td>
</tr>
<tr>
<td><strong>ServerEapTypeId</strong></td>
<td>Gets the type id of the Extensible Authentication Protocol (EAP) used to authenticate the remote computer.</td>
</tr>
<tr>
<td><strong>ServerOptions</strong></td>
<td>Gets the additional options for the remote computer.</td>
</tr>
<tr>
<td><strong>ServerTerminateReason</strong></td>
<td>Gets the reason the server terminated the connection.</td>
</tr>
<tr>
<td><strong>TerminateReason</strong></td>
<td>Gets the reason the client terminated the connection.</td>
</tr>
</tbody>
</table>
See Also

RasLcpInfo Class
DotRas Namespace

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RasLcpInfo Methods

See Also Send Feedback

The RasLcpInfo type exposes the following members.
# Methods

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See Also

RasLcpInfo Class
DotRas Namespace

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The **RasLcpInfo** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AuthenticationData</strong></td>
<td>Gets the authentication data about the authentication protocol used by the client.</td>
</tr>
<tr>
<td><strong>AuthenticationProtocol</strong></td>
<td>Gets the authentication protocol used to authenticate the client.</td>
</tr>
<tr>
<td><strong>Bundled</strong></td>
<td>Gets a value indicating whether the connection is composed of multiple links.</td>
</tr>
<tr>
<td><strong>EapTypeId</strong></td>
<td>Gets the type id of the Extensible Authentication Protocol (EAP) used to authenticate the local computer.</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td><strong>Multilink</strong></td>
<td>Gets a value indicating whether the connection supports multilink.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Gets the additional options for the local computer.</td>
</tr>
<tr>
<td><strong>ReplyMessage</strong></td>
<td>Gets the message (if any) from the authentication protocol success/failure packet.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationData</strong></td>
<td>Gets the authentication data about the authentication protocol used by the server.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationProtocol</strong></td>
<td>Gets the authentication protocol used to authenticate the server.</td>
</tr>
<tr>
<td><strong>ServerEapTypeId</strong></td>
<td>Gets the type id of the Extensible Authentication Protocol (EAP) used to authenticate the remote computer.</td>
</tr>
<tr>
<td><strong>ServerOptions</strong></td>
<td>Gets the additional options for the remote computer.</td>
</tr>
<tr>
<td><strong>ServerTerminateReason</strong></td>
<td>Gets the reason the server terminated the connection.</td>
</tr>
<tr>
<td><strong>TerminateReason</strong></td>
<td>Gets the reason the client terminated the connection.</td>
</tr>
</tbody>
</table>
- See Also
  - RasLcpInfo Class
  - DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the authentication data about the authentication protocol used by the client.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasLcpAuthenticationDataType AuthenticationData
```

### Visual Basic

```vbscript
Public Readonly Property AuthenticationData As RasLcpAuthenticationDataType
```

### Visual C++

```cpp
public:
property RasLcpAuthenticationDataType AuthenticationData
RasLcpAuthenticationDataType get ();
```

### F#

```fsharp
member AuthenticationData : RasLcpAuthenticationDataType
```

## Property Value

Type: [RasLcpAuthenticationDataType](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.AuthenticationProtocol Property

Gets the authentication protocol used to authenticate the client.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasLcpAuthenticationType AuthenticationProtocol;</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property AuthenticationProtocol As RasLcpAuthenticationType Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasLcpAuthenticationType AuthenticationProtocol; RasLcpAuthenticationType get ();</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member AuthenticationProtocol : RasLcpAuthenticationType</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasLcpAuthenticationType](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.Bundled Property

Gets a value indicating whether the connection is composed of multiple links.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool Bundled { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Bundled As Boolean Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool Bundled { bool get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Bundled : bool with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.EapTypeId Property

Gets the type id of the Extensible Authentication Protocol (EAP) used to authenticate the local computer.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public int EapTypeId { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property EapTypeId As Integer
Get
``` |
| **Visual C++** | ```
public:
property int EapTypeId {
    int get ();
}
``` |
| **F#**   | ```
member EapTypeId : int with get
``` |

### Property Value

Type: **Int32**

---

*Note: The text is a representation of the syntax for defining a property in different programming languages.*
Remarks
This member is valid only if AuthenticationProtocol is Eap.
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.ErrorCode Property

Gets the error code (if any) that occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public int ErrorCode { get; }</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Readonly Property ErrorCode As Integer Get</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
</tbody>
</table>
| public:
property int ErrorCode {
    int get ();
} |   |
| **F#** |   |
| member ErrorCode : int with get |   |

### Property Value

Type: **Int32**
See Also

- RasLcpInfo Class
- RasLcpInfo Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets a value indicating whether the connection supports multilink.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public bool Multilink { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Property Multilink As Boolean
  Get
```

#### Visual C++

```csharp
public:
property bool Multilink {
  bool get ();
}
```

#### F#

```fsharp
member Multilink : bool with get
```

### Property Value

Type: **Boolean**
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.Options Property

Gets the additional options for the local computer.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasLcpOptions Options { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Options As RasLcpOptions Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasLcpOptions^ Options { RasLcpOptions^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Options : RasLcpOptions with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasLcpOptions](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the message (if any) from the authentication protocol success/failure packet.

**Namespace**: DotRas

**Assembly**: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#
```csharp
public string ReplyMessage { get; }
```

### Visual Basic
```vbnet
Public ReadOnly Property ReplyMessage As String
Get
```

### Visual C++
```cpp
public:
property String^ ReplyMessage {
    String^ get ();
}
```

### F#
```fsharp
member ReplyMessage : string with get
```

## Property Value

Type: [String](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the authentication data about the authentication protocol used by the server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasLcpAuthenticationDataType ServerAuthenticationData</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property ServerAuthenticationData As RasLcpAuthenticationDataType Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property RasLcpAuthenticationDataType ServerAuthenticationData</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ServerAuthenticationData : RasLcpAuthenticationDataType</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasLcpAuthenticationDataType](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.ServerAuthenticationProtocol Property

Gets the authentication protocol used to authenticate the server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasLcpAuthenticationType ServerAuthenticationProtocol</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property ServerAuthenticationProtocol</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property RasLcpAuthenticationType ServerAuthenticationProtocol</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ServerAuthenticationProtocol : RasLcpAuthenticationType</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasLcpAuthenticationType](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the type id of the Extensible Authentication Protocol (EAP) used to authenticate the remote computer.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int ServerEapTypeId { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ServerEapTypeId As Integer Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int ServerEapTypeId { int get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ServerEapTypeId : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: **Int32**
Remarks

This member is valid only if ServerAuthenticationProtocol is Eap.
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.ServerOptions Property

Gets the additional options for the remote computer.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasLcpOptions ServerOptions { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property ServerOptions As RasLcpOptions
    Get
```

### Visual C++

```cpp
public:
property RasLcpOptions^ ServerOptions {
    RasLcpOptions^ get ();
}
```

### F#

```fsharp
member ServerOptions : RasLcpOptions with get
```

## Property Value

Type: [RasLcpOptions](#)
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

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RasLcpInfo.ServerTerminateReason Property

See Also
Send Feedback

Gets the reason the server terminated the connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public int ServerTerminateReason { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property ServerTerminateReason As Integer Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property int ServerTerminateReason { int get (); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ServerTerminateReason : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: `Int32`
Remarks

This member always has a return value of zero.
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpInfo.TerminateReason Property

Gets the reason the client terminated the connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**     | ```
public int TerminateReason { get; }
``` |
| **Visual Basic** | ```Public ReadOnly Property TerminateReason As Integer
Get``` |
| **Visual C++** | ```
public:
property int TerminateReason {
    int get ();
}
``` |
| **F#**     | ```
member TerminateReason : int with get
``` |

### Property Value

Type: **Int32**
Remarks

This member always has a return value of zero.
See Also

RasLcpInfo Class
RasLcpInfo Members
DotRas Namespace
Represented by remote access service (RAS) link control protocol options. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#** | `[SerializableAttribute]`  
  `public sealed class RasLcpOptions : ICloneable` |
| **Visual Basic** | `<SerializableAttribute>`  
  `Public NotInheritable Class RasLcpOptions`  
  `Implements ICloneable` |
| **Visual C++** | `[SerializableAttribute]`  
  `public ref class RasLcpOptions sealed : ICloneable` |
| **F#** | `[<SealedAttribute>]`  
  `[<SerializableAttribute>]`  
  `type RasLcpOptions =`  
  `  class`  
  `    interface ICloneable`  
  `end` |
Inheritance Hierarchy

System.Object
DotRas.RasLcpOptions
See Also

RasLcpOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasLcpOptions** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Acfc</td>
<td>Gets a value indicating whether address and control field compression is being used.</td>
</tr>
<tr>
<td>Aes128</td>
<td>Gets a value indicating whether AES 128-bit encryption is being used.</td>
</tr>
<tr>
<td>Aes256</td>
<td>Gets a value indicating whether AES 256-bit encryption is being used.</td>
</tr>
<tr>
<td>Des56</td>
<td>Gets a value indicating whether DES 56-bit encryption is being used.</td>
</tr>
<tr>
<td>Pfc</td>
<td>Gets a value indicating whether protocol field compression is being used.</td>
</tr>
<tr>
<td>Sshf</td>
<td>Gets a value indicating whether short sequence number header format is being used.</td>
</tr>
<tr>
<td>TripleDes</td>
<td>Gets a value indicating whether 3 DES encryption is being used.</td>
</tr>
</tbody>
</table>
See Also

RasLcpOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasLcpOptions` type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>Clone</td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type.</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object.</td>
</tr>
</tbody>
</table>
See Also

RasLcpOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpOptions.Clone Method

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Creates a copy of this object.
### Syntax

**C#**

```csharp
public Object Clone()
```

**Visual Basic**

```vbnet
Public Function Clone As Object
```

**Visual C++**

```c++
public:
virtual Object^ Clone() sealed
```

**F#**

```fsharp
abstract Clone : unit -> Object
override Clone : unit -> Object
```

### Return Value

Type: `Object`

A new `RasLcpOptions` object.

### Implements

`ICloneable.Clone()`
See Also

RasLcpOptions Class
RasLcpOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasLcpOptions** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acfc</td>
<td>Gets a value indicating whether address and control field compression is being used.</td>
</tr>
<tr>
<td>Aes128</td>
<td>Gets a value indicating whether AES 128-bit encryption is being used.</td>
</tr>
<tr>
<td>Aes256</td>
<td>Gets a value indicating whether AES 256-bit encryption is being used.</td>
</tr>
<tr>
<td>Des56</td>
<td>Gets a value indicating whether DES 56-bit encryption is being used.</td>
</tr>
<tr>
<td>Pfc</td>
<td>Gets a value indicating whether protocol field compression is being used.</td>
</tr>
<tr>
<td>Sshf</td>
<td>Gets a value indicating whether short sequence number header format is being used.</td>
</tr>
<tr>
<td>TripleDes</td>
<td>Gets a value indicating whether 3 DES encryption is being used.</td>
</tr>
</tbody>
</table>
See Also

RasLcpOptions Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpOptions.Acfc Property

Gets a value indicating whether address and control field compression is being used.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public bool Acfc { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property Acfc As Boolean Get</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property bool Acfc {</td>
</tr>
<tr>
<td>bool get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>member Acfc : bool with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasLcpOptions Class
RasLcpOptions Members
DotRas Namespace

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RasLcpOptions.Aes128 Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets a value indicating whether AES 128-bit encryption is being used.
Syntax

C#

```csharp
public bool Aes128 { get; }
```

Visual Basic

```vbnet
Public ReadOnly Property Aes128 As Boolean
Get
```

Visual C++

```cpp
public:
property bool Aes128 {
    bool get ();
}
```

F#

```fsharp
member Aes128 : bool with get
```

Property Value

Type: Boolean
Remarks

*Windows Vista and later:* This property is available.
See Also

RasLcpOptions Class
RasLcpOptions Members
DotRas Namespace

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RasLcpOptions.Aes256 Property

Gets a value indicating whether AES 256-bit encryption is being used.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool Aes256 { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Aes256 As Boolean Get</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:
  property bool Aes256 {
    bool get ();
  }`                                                                     |
| **F#**        | `member Aes256 : bool with get`                                       |

### Property Value

Type: **Boolean**
Remarks

Windows Vista and later: This property is available.
See Also

- RasLcpOptions Class
- RasLcpOptions Members
- DotRas Namespace

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RasLcpOptions.Des56 Property

Gets a value indicating whether DES 56-bit encryption is being used.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool Des56 { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Des56 As Boolean Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool Des56 { bool get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Des56 : bool with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasLcpOptions Class
RasLcpOptions Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLcpOptions.Pfc Property

Gets a value indicating whether protocol field compression is being used.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public bool Pfc { get; }</code></td>
<td><code>Public Readonly Property Pfc As Boolean Get</code></td>
<td><code>public: property bool Pfc { bool get (); }</code></td>
<td><code>member Pfc : bool with get</code></td>
</tr>
</tbody>
</table>

**Property Value**
Type: *Boolean*
See Also

- RasLcpOptions Class
- RasLcpOptions Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets a value indicating whether short sequence number header format is being used.

**Namespace: DotRas**

**Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)**
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**    | ```
public bool Sshf { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property Sshf As Boolean
Get
``` |
| **Visual C++** | ```
public:
property bool Sshf {
    bool get ();
}
``` |
| **F#**    | ```
member Sshf : bool with get
``` |

### Property Value

Type: [Boolean](#)
See Also

RasLcpOptions Class
RasLcpOptions Members
DotRas Namespace

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RasLcpOptions.TripleDes Property

Gets a value indicating whether 3 DES encryption is being used.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

- **C#**
  
  ```csharp
  public bool TripleDes { get; }
  ```

- **Visual Basic**
  
  ```vbnet
  Public ReadOnly Property TripleDes As Boolean
  Get
  ```

- **Visual C++**
  
  ```cpp
  public:
  property bool TripleDes {
      bool get ();
  }
  ```

- **F#**
  
  ```fsharp
  member TripleDes : bool with get
  ```

**Property Value**

Type: [Boolean](#)
See Also

RasLcpOptions Class
RasLcpOptions Members
DotRas Namespace
RasLinkStatistics Class

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Represents connection link statistics for a remote access connection. This class cannot be inherited.
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute]</code> <strong>public sealed class</strong> RasLinkStatistics</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt;</code> <code>Public NotInheritable Class</code> RasLinkStatistics</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute]</code> <strong>public ref class</strong> RasLinkStatistics sealed</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[@SealedAttribute]</code> <code>@SerializableAttribute</code> type RasLinkStatistics = class end</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasLinkStatistics
See Also

RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The RasLinkStatistics type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>AlignmentError</strong></td>
<td>Gets the number of alignment errors that have occurred.</td>
</tr>
<tr>
<td><strong>BufferOverrunError</strong></td>
<td>Gets the number of buffer overrun errors that have occurred.</td>
</tr>
<tr>
<td><strong>BytesReceived</strong></td>
<td>Gets the number of bytes received.</td>
</tr>
<tr>
<td><strong>BytesTransmitted</strong></td>
<td>Gets the number of bytes transmitted.</td>
</tr>
<tr>
<td><strong>CompressionRatioIn</strong></td>
<td>Gets the compression ratio for data received on this connection or link.</td>
</tr>
<tr>
<td><strong>CompressionRatioOut</strong></td>
<td>Gets the compression ratio for data transmitted on this connection or link.</td>
</tr>
<tr>
<td><strong>ConnectionDuration</strong></td>
<td>Gets the length of time that the connection has been connected.</td>
</tr>
<tr>
<td><strong>CrcError</strong></td>
<td>Gets the number of cyclic redundancy check (CRC) errors that have occurred.</td>
</tr>
<tr>
<td><strong>FramesReceived</strong></td>
<td>Gets the number of frames received.</td>
</tr>
<tr>
<td><strong>FramesTransmitted</strong></td>
<td>Gets the number of frames transmitted.</td>
</tr>
<tr>
<td><strong>FramingError</strong></td>
<td>Gets the number of framing errors that have occurred.</td>
</tr>
<tr>
<td><strong>HardwareOverrunError</strong></td>
<td>Gets the number of hardware overrun errors that have occurred.</td>
</tr>
<tr>
<td><strong>LinkSpeed</strong></td>
<td>Gets the speed of the link, in bits per second.</td>
</tr>
<tr>
<td><strong>TimeoutError</strong></td>
<td>Gets the number of timeout errors that have occurred.</td>
</tr>
</tbody>
</table>
See Also

RasLinkStatistics Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasLinkStatistics** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
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<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
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<tr>
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</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasLinkStatistics Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasLinkStatistics** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AlignmentError</strong></td>
<td>Gets the number of alignment errors that have occurred.</td>
</tr>
<tr>
<td><strong>BufferOverrunError</strong></td>
<td>Gets the number of buffer overrun errors that have occurred.</td>
</tr>
<tr>
<td><strong>BytesReceived</strong></td>
<td>Gets the number of bytes received.</td>
</tr>
<tr>
<td><strong>BytesTransmitted</strong></td>
<td>Gets the number of bytes transmitted.</td>
</tr>
<tr>
<td><strong>CompressionRatioIn</strong></td>
<td>Gets the compression ratio for data received on this connection or link.</td>
</tr>
<tr>
<td><strong>CompressionRatioOut</strong></td>
<td>Gets the compression ratio for data transmitted on this connection or link.</td>
</tr>
<tr>
<td><strong>ConnectionDuration</strong></td>
<td>Gets the length of time that the connection has been connected.</td>
</tr>
<tr>
<td><strong>CrcError</strong></td>
<td>Gets the number of cyclic redundancy check (CRC) errors that have occurred.</td>
</tr>
<tr>
<td><strong>FramesReceived</strong></td>
<td>Gets the number of frames received.</td>
</tr>
<tr>
<td><strong>FramesTransmitted</strong></td>
<td>Gets the number of frames transmitted.</td>
</tr>
<tr>
<td><strong>FramingError</strong></td>
<td>Gets the number of framing errors that have occurred.</td>
</tr>
<tr>
<td><strong>HardwareOverrunError</strong></td>
<td>Gets the number of hardware overrun errors that have occurred.</td>
</tr>
<tr>
<td><strong>LinkSpeed</strong></td>
<td>Gets the speed of the link, in bits per second.</td>
</tr>
<tr>
<td><strong>TimeoutError</strong></td>
<td>Gets the number of timeout errors that have occurred.</td>
</tr>
</tbody>
</table>
See Also

RasLinkStatistics Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLinkStatistics.AlignmentError Property

Gets the number of alignment errors that have occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public long AlignmentError { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property AlignmentError As Long
Get
```

**Visual C++**

```cpp
public:
property long AlignmentError {
    long long get ();
}
```

**F#**

```fsharp
member AlignmentError : int64 with get
```

### Property Value

Type: **Int64**
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLinkStatistics.BufferOverrunError Property

Gets the number of buffer overrun errors that have occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public long BufferOverrunError { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property BufferOverrunError As Long Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property long long BufferOverrunError { long long get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member BufferOverrunError : int64 with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: **Int64**
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLinkStatistics.BytesReceived Property

Gets the number of bytes received.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public long BytesReceived { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property BytesReceived As Long
Get
```

### Visual C++

```cpp
public:
property long long BytesReceived {
    long long get ();
}
```

### F#

```fsharp
member BytesReceived : int64 with get
```

## Property Value

Type: [Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)
See Also

- RasLinkStatistics Class
- RasLinkStatistics Members
- DotRas Namespace

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RasLinkStatistics.BytesTransmitted Property

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Gets the number of bytes transmitted.
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
</tr>
</thead>
</table>
| public long BytesTransmitted { get; } | Public ReadOnly Property BytesTransmitted As Long Get | public: property long long BytesTransmitted {
|                                        |                                                   | long long get ();                              |
|                                        |                                                   | }                                              |
|                                        |                                                   |                                                |
| F#                                     |                                                   |                                                |
| member BytesTransmitted : int64 with get |                                                   |                                                |

### Property Value

Type: [Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the compression ratio for data received on this connection or link.

**Namespace:** [DotRas](https://dotras.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public long CompressionRatioIn { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property CompressionRatioIn As Long
Get
```

**Visual C++**

```cpp
public:
property long long CompressionRatioIn {
    long long get ();
}
```

**F#**

```fsharp
member CompressionRatioIn : int64 with get
```

### Property Value

**Type:** Int64
Remarks

This member is valid only for a single link connection, or a single link in a multilink connection.
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLinkStatistics.CompressionRatioOut Property

Gets the compression ratio for data transmitted on this connection or link.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
| public long CompressionRatioOut { get; } | Public ReadOnly Property CompressionRatioOut As Long Get | public: property long long CompressionRatioOut {  
|             |                               |  long long get ();              | member CompressionRatioOut : int64 with get |

**Property Value**
Type: Int64
Remarks

This member is valid only for a single link connection, or a single link in a multilink connection.
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

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RasLinkStatistics.ConnectionDuration Property

Gets the length of time that the connection has been connected.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public TimeSpan ConnectionDuration { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property ConnectionDuration As TimeSpan Get</td>
</tr>
</tbody>
</table>
| **Visual C++** | public: property TimeSpan ConnectionDuration {    
|             |     TimeSpan get ();                                                  |
| **F#**     | member ConnectionDuration : TimeSpan with get                      |

### Property Value

Type: [TimeSpan](#)
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace
RasLinkStatistics.CrcError Property

Gets the number of cyclic redundancy check (CRC) errors that have occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public long CrcError { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property CrcError As Long Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property long long CrcError { long long get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member CrcError : int64 with get</td>
</tr>
</tbody>
</table>

### Property Value
Type: Int64
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

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RasLinkStatistics.FramesReceived Property

Gets the number of frames received.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public long FramesReceived { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property FramesReceived As Long
Get
```

### Visual C++

```cpp
public:
property long long FramesReceived {
    long long get ()
}
```

### F#

```fsharp
member FramesReceived : int64 with get
```

## Property Value

Type: `Int64`
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLinkStatistics.FramesTransmitted Property

Gets the number of frames transmitted.

Namespace: **DotRas**

Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public long FramesTransmitted { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Property FramesTransmitted As Long
Get
```

#### Visual C++

```cpp
public:
property long long FramesTransmitted {
    long long get ();
}
```

#### F#

```fsharp
member FramesTransmitted : int64 with get
```

### Property Value

Type: **Int64**
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the number of framing errors that have occurred.

**Namespace:** [DotRas](https://example.com)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public long FramingError { get; }
``` |
| Visual Basic | ```
Public ReadOnly Property FramingError As Long
Get
``` |
| Visual C++   | ```
public:
property long long FramingError {
    long long get ();
}
``` |
| F#        | ```
member FramingError : int64 with get
``` |

### Property Value

Type: [Int64](#)
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the number of hardware overrun errors that have occurred.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public long HardwareOverrunError { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property HardwareOverrunError As Long
    Get
```

**Visual C++**

```cpp
public:
    property long long HardwareOverrunError {
        long long get ();
    }
```

**F#**

```fsharp
member HardwareOverrunError : int64 with get
```

## Property Value

Type: [Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)
See Also

- RasLinkStatistics Class
- RasLinkStatistics Members
- DotRas Namespace

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RasLinkStatistics.LinkSpeed Property

Gets the speed of the link, in bits per second.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public long LinkSpeed { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property LinkSpeed As Long
Get
```

**Visual C++**

```cpp
public:
property long long LinkSpeed { 
    long long get ();
}
```

**F#**

```fsharp
member LinkSpeed : int64 with get
```

### Property Value

Type: **Int64**
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasLinkStatistics.TimeoutError Property

Gets the number of timeout errors that have occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>public long TimeoutError { get; }</td>
<td>Public ReadOnly Property TimeoutError As Long Get</td>
<td>public: property long long TimeoutError {</td>
<td>member TimeoutError : int64 with get</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>long long get ();</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>}</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: Int64
See Also

RasLinkStatistics Class
RasLinkStatistics Members
DotRas Namespace
RasNapStatus Class

- Represents the current network access protection (NAP) status of a remote access connection. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>[SerializableAttribute] public sealed class RasNapStatus</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>&lt;SerializableAttribute&gt;</code> Public NotInheritable Class RasNapStatus</td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>[SerializableAttribute] public ref class RasNapStatus sealed</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>[&lt;SealedAttribute&gt;] [SerializableAttribute]</code> type RasNapStatus = class end</td>
</tr>
</tbody>
</table>
Remarks

Known Limitations:

- This type is only available on Windows Vista and later operating systems.
### Examples

This example shows how to retrieve the NAP status for an active connection.

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```csharp
RasConnection connection = RasConnection.GetActiveConnectionByName();
if (connection != null)
{
    RasNapStatus info = connection.GetNapStatus();
    if (info != null)
    {
        // info now has the NAP status information.
    }
}
``` |
| **Visual Basic** | ```vbscript
Dim connection As RasConnection = RasConnection.GetActiveConnectionByName()
If connection IsNot Nothing Then
    Dim info As RasNapStatus = connection.GetNapStatus()
    If info IsNot Nothing Then
        ' info now has the NAP status information.
    End If
End If
``` |
Inheritance Hierarchy

System.Object
DotRas.RasNapStatus
See Also

- RasNapStatus Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasNapStatus** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
</tr>
</tbody>
</table>
Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IsolationState</td>
<td>Gets the isolation state.</td>
</tr>
<tr>
<td>ProbationTime</td>
<td>Gets the probation time.</td>
</tr>
</tbody>
</table>
See Also

RasNapStatus Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The RasNapStatus type exposes the following members.
## Methods

<table>
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<tr>
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</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasNapStatus Class
DotRas Namespace

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DotRas SDK Documentation

**RasNapStatus Properties**

[RasNapStatus Class See Also Send Feedback]

The **RasNapStatus** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IsolationState</td>
<td>Gets the isolation state.</td>
</tr>
<tr>
<td>ProbationTime</td>
<td>Gets the probation time.</td>
</tr>
</tbody>
</table>
See Also

RasNapStatus Class
DotRas Namespace
Gets the isolation state.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**    | ```
public RasIsolationState IsolationState { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property IsolationState As RasIsolationState
Get
``` |
| **Visual C++** | ```
public:
property RasIsolationState IsolationState {
RasIsolationState get ();
}
``` |
| **F#**    | ```
member IsolationState : RasIsolationState with get
``` |

### Property Value

Type: [RasIsolationState](#)
See Also

RasNapStatus Class
RasNapStatus Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasNapStatus.ProbationTime Property

Gets the probation time.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public DateTime ProbationTime { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ProbationTime As DateTime Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property DateTime ProbationTime { DateTime get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ProbationTime : DateTime with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [DateTime](#)
Remarks

Specifies the time required for the connection to come out of quarantine after which the connection will be dropped.
See Also

RasNapStatus Class
RasNapStatus Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains the result of a NetBEUI Framer (NBF) projection operation. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;<code>public sealed class RasNbfInfo</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt;</code>&lt;br&gt;<code>Public NotInheritable Class RasNbfInfo</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;<code>public ref class RasNbfInfo sealed</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;]</code>&lt;br&gt;<code>[&lt;SerializableAttribute&gt;]</code>&lt;br&gt;<code>type RasNbfInfo = class end</code></td>
</tr>
</tbody>
</table>
Remarks

This object is created from an Nbf projection operation on a connection.
Examples

This example shows how to perform an NBF projection operation on an active connection.

C#

RasConnection connection = RasConnection.GetActiveConnection();
if (connection != null) {
    RasNbfInfo info = (RasNbfInfo)connection.GetProjectionInfo(RasProjectionType.Nbf);
    if (info != null) {
        // info now contains the NBF projection data.
    }
}

Visual Basic

Dim connection As RasConnection = RasConnection.GetActiveConnection()
If connection IsNot Nothing Then
    Dim info As RasNbfInfo = CType(connection.GetProjectionInfo(RasProjectionType.Nbf), RasNbfInfo)
    If info IsNot Nothing Then
        ' info now contains the NBF projection data.
    End If
End If
Inheritance Hierarchy

System.Object
DotRas.RasNbfInfo
See Also

RasNbfInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasNbfInfo Members

The RasNbfInfo type exposes the following members.
## Methods

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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<tr>
<td><strong>Equals</strong></td>
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<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <em>Object</em>.)</td>
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</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>Lana</td>
<td>Gets the NetBIOS network adapter identifier on which the remote access</td>
</tr>
<tr>
<td></td>
<td>connection was established.</td>
</tr>
<tr>
<td>NetBiosErrorCode</td>
<td>Gets the NetBIOS error code (if any) that occurred.</td>
</tr>
<tr>
<td>NetBiosErrorMessage</td>
<td>Gets the NetBIOS error message for the error code that occurred.</td>
</tr>
<tr>
<td>WorkstationName</td>
<td>Gets the local workstation name.</td>
</tr>
</tbody>
</table>
See Also

RasNbfInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasNbfiInfo` type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
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<tr>
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<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
See Also

RasNbfInfo Class
DotRas Namespace
The `RasNbfInfo` type exposes the following members.
## Properties

<table>
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<tr>
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<th>Description</th>
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<td>ErrorCode</td>
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</tr>
<tr>
<td>Lana</td>
<td>Gets the NetBIOS network adapter identifier on which the remote access connection was established.</td>
</tr>
<tr>
<td>NetBiosErrorCode</td>
<td>Gets the NetBIOS error code (if any) that occurred.</td>
</tr>
<tr>
<td>NetBiosErrorMessage</td>
<td>Gets the NetBIOS error message for the error code that occurred.</td>
</tr>
<tr>
<td>WorkstationName</td>
<td>Gets the local workstation name.</td>
</tr>
</tbody>
</table>
See Also

RasNbfInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the error code (if any) that occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int ErrorCode { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ErrorCode As Integer Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int ErrorCode { int get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: **Int32**
Remarks

This member indicates the actual fatal error (if any) that occurred during the control protocol negotiation, the error that prevented the projection from completing successfully.
See Also

RasNbfInfo Class
RasNbfInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasNbfInfo.Lana Property

Gets the NetBIOS network adapter identifier on which the remote access connection was established.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public byte Lana { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Public ReadOnly Property Lana As Byte Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public: property unsigned char Lana { unsigned char get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>member Lana : byte with get</td>
</tr>
</tbody>
</table>

**Property Value**

Type: **Byte**
Remarks

This member contains MaxValue if a connection was not established.
See Also

RasNbfInfo Class
RasNbfInfo Members
DotRas Namespace
Gets the NetBIOS error code (if any) that occurred.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public int NetBiosErrorCode { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property NetBiosErrorCode As Integer
    Get
```

**Visual C++**

```cpp
public:
    property int NetBiosErrorCode {
        int get ();
    }
```

**F#**

```fsharp
member NetBiosErrorCode : int with get
```

### Property Value

Type: **Int32**
See Also

RasNbfInfo Class
RasNbfInfo Members
DotRas Namespace

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RasNbfInfo.NetBiosErrorMessage Property

Gets the NetBIOS error message for the error code that occurred.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
</table>
| `public string NetBiosErrorMessage { get; }` | `Public ReadOnly Property NetBiosErrorMessage As String Get` | `public: property String^ NetBiosErrorMessage {  
    String^ get ();  
} ` | `member NetBiosErrorMessage : string with get` |

### Property Value

Type: [String](#)
See Also

RasNbfInfo Class
RasNbfInfo Members
DotRas Namespace

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RasNbfInfo.WorkstationName Property

Gets the local workstation name.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public string WorkstationName { get; }
``` |
| Visual Basic | ```
Public ReadOnly Property WorkstationName As String
Get
``` |
| Visual C++  | ```
public:
property String^ WorkstationName {
    String^ get ();
}
``` |
| F#        | ```
member WorkstationName : string with get
``` |

**Property Value**

Type: [String](#)
See Also

RasNbfInfo Class
RasNbfInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents network protocols for a remote access service (RAS) entry. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute]</code> public sealed class RasNetworkProtocols : ICloneable</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt;</code> Public NotInheritable Class RasNetworkProtocols Implements ICloneable</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute]</code> public ref class RasNetworkProtocols sealed : ICloneable</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;]</code> <code>[&lt;SerializableAttribute&gt;]</code> type RasNetworkProtocols = class interface ICloneable end</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

- System.Object
- DotRas.RasNetworkProtocols
See Also

RasNetworkProtocols Members
DotRas Namespace

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The **RasNetworkProtocols** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasNetworkProtocols</td>
<td>Initializes a new instance of the RasNetworkProtocols class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
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<td><strong>ToString</strong></td>
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## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>Gets or sets a value indicating whether the IP protocol will be negotiated.</td>
</tr>
<tr>
<td>IPv6</td>
<td>Gets or sets a value indicating whether the IPv6 protocol will be negotiated.</td>
</tr>
<tr>
<td>Ipx</td>
<td>Gets or sets a value indicating whether the IPX protocol will be negotiated.</td>
</tr>
<tr>
<td>NetBeui</td>
<td><strong>Obsolete.</strong> Gets or sets a value indicating whether the NetBEUI protocol will be negotiated.</td>
</tr>
</tbody>
</table>
See Also

RasNetworkProtocols Class
DotRas Namespace

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RasNetworkProtocols Constructor

Initializes a new instance of the RasNetworkProtocols class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasNetworkProtocols()</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: RasNetworkProtocols()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>new : unit -&gt; RasNetworkProtocols</code></td>
</tr>
</tbody>
</table>
See Also

- RasNetworkProtocols Class
- RasNetworkProtocols Members
- DotRas Namespace

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The **RasNetworkProtocols** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>Creates a copy of this object.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
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<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
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<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
See Also

RasNetworkProtocols Class
DotRas Namespace

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RasNetworkProtocols.Clone Method

Create a copy of this object.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public Object Clone()
```

**Visual Basic**

```vbnet
Public Function Clone As Object
```

**Visual C++**

```cpp
public:
virtual Object^ Clone() sealed
```

**F#**

```fsharp
abstract Clone : unit -> Object
override Clone : unit -> Object
```

## Return Value

Type: `Object`

A new `RasNetworkProtocols` object.

## Implements

`ICloneable.Clone()`
See Also

RasNetworkProtocols Class
RasNetworkProtocols Members
DotRas Namespace

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The **RasNetworkProtocols** type exposes the following members.
### Properties

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<tr>
<th>Name</th>
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</thead>
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<td>IP</td>
<td>Gets or sets a value indicating whether the IP protocol will be negotiated.</td>
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<td>IPv6</td>
<td>Gets or sets a value indicating whether the IPv6 protocol will be negotiated.</td>
</tr>
<tr>
<td>Ipx</td>
<td>Gets or sets a value indicating whether the IPX protocol will be negotiated.</td>
</tr>
<tr>
<td>NetBeui</td>
<td><strong>Obsolete.</strong>&lt;br&gt; Gets or sets a value indicating whether the NetBEUI protocol will be negotiated.</td>
</tr>
</tbody>
</table>
See Also

RasNetworkProtocols Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasNetworkProtocols.IP Property

Gets or sets a value indicating whether the IP protocol will be negotiated.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public bool IP { get; set; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Property IP As Boolean Get Set</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property bool IP { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member IP : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasNetworkProtocols Class
RasNetworkProtocols Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the IPv6 protocol will be negotiated.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool IPv6 { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property IPv6 As Boolean
Get
Set` |
| **Visual C++** | `public:
property bool IPv6 {
    bool get ();
    void set (bool value);
} ` |
| **F#** | `member IPv6 : bool with get, set` |

**Property Value**

Type: [Boolean](#)
Remarks

Windows Vista and later: This property is available.
See Also

RasNetworkProtocols Class
RasNetworkProtocols Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets a value indicating whether the IPX protocol will be negotiated.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public bool Ipx { get; set; }
```

Visual Basic

```vbnet
Public Property Ipx As Boolean
    Get
    Set
```

Visual C++

```cpp
public:
    property bool Ipx { 
        bool get ();
        void set (bool value);
    }
```

F#

```fsharp
member Ipx : bool with get, set
```

Property Value
Type: Boolean
See Also

RasNetworkProtocols Class
RasNetworkProtocols Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasNetworkProtocols.NetBeui Property

Gets or sets a value indicating whether the NetBEUI protocol will be negotiated.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
[ObsoleteAttribute("This member is no longer supported.
public bool NetBeui { get; set; }
```

### Visual Basic

```vbnet
<ObsoleteAttribute("This member is no longer supported.
Public Property NetBeui As Boolean
    Get
    Set
```

### Visual C++

```cpp
public:
[ObsoleteAttribute(L"This member is no longer supported.
property bool NetBeui {
    bool get ();
    void set (bool value);
}
```

### F#

```fsharp
[<ObsoleteAttribute("This member is no longer supported.
member NetBeui : bool with get, set
```

### Property Value

Type: `Boolean`
See Also

RasNetworkProtocols Class
RasNetworkProtocols Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents a remote access service (RAS) phone book. This class cannot be inherited.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public sealed class RasPhoneBook : RasComponent</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public NotInheritable Class RasPhoneBook Inherits RasComponent</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public ref class RasPhoneBook sealed : public RasComponent</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>[&lt;SealedAttribute&gt;] type RasPhoneBook = class inherit RasComponent end</td>
</tr>
</tbody>
</table>
Remarks

When using **RasPhoneBook** to monitor a phone book for external changes, ensure the SynchronizingObject property is set if thread synchronization is required. If this is not done, you may get cross-thread exceptions thrown from the component. This is typically needed with applications that have an interface; for example, Windows Forms or Windows Presentation Foundation (WPF).

There are multiple phone books in use by Windows at any given point in time and this class can only manage one phone book per instance. If you add an entry to the all user's profile phone book, attempting to manipulate it with the current user's profile phone book opened will result in failure. Entries will not be located, and changes made to the phone book will not be recognized by the instance.

When attempting to open a phone book that does not yet exist, the **RasPhoneBook** class will automatically generate the file to be used. Also, setting the **EnableFileWatcher** property to **true** will allow the class to monitor for any external changes made to the file.

**Known Limitations**

- For phone books which are not located in the all users profile directory (including those in custom locations) any stored credentials for the entries must be stored per user.

- The **RasPhoneBook** component may not be able to modify entries in the All User's profile without elevated application privileges. If your application cannot request elevated privileges you can either use the current user profile phone book, or use a custom phone book in a path that will not require elevated permissions.
Examples

The following example shows how to open a phone book in a custom location using a RasPhoneBook class.

**C#**

```csharp
using (RasPhoneBook pbk = new RasPhoneBook())
{
    pbk.Open("C:\\Test.pbk");
}
```

**Visual Basic**

```vbnet
Dim pbk As RasPhoneBook
Try
    pbk = New RasPhoneBook
    pbk.Open("C:\\Test.pbk")
Finally
    If (pbk IsNot Nothing) Then
        pbk.Dispose()
    End If
End Try
```
Inheritance Hierarchy

- System.Object
- System.MarshalByRefObject
- System.ComponentModel.Component
- DotRas.Design.RasComponent
- DotRas.RasPhoneBook
See Also

RasPhoneBook Members
DotRas Namespace
The **RasPhoneBook** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>RasPhoneBook()</code></td>
<td>Initializes a new instance of the RasPhoneBook class.</td>
</tr>
<tr>
<td><code>RasPhoneBook(IContainer)</code></td>
<td>Initializes a new instance of the RasPhoneBook class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Dispose</strong></td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetPhoneBookPath</strong></td>
<td>Determines the full path (including filename) of the phone book.</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Open()</strong></td>
<td>Obsolete. Opens the phone book.</td>
</tr>
<tr>
<td><strong>Open(Boolean)</strong></td>
<td>Obsolete. Opens the phone book.</td>
</tr>
<tr>
<td><strong>Open(String)</strong></td>
<td>Opens the phone book.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of</td>
</tr>
</tbody>
</table>
the **Component**, if any. This method should not be overridden.
(Inherited from **Component**.)
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Container</strong></td>
<td>Gets the <code>IContainer</code> that contains the <code>Component</code>. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td><strong>EnableFileWatcher</strong></td>
<td>Gets or sets a value indicating whether the phone book file will be monitored for external changes.</td>
</tr>
<tr>
<td><strong>Entries</strong></td>
<td>Gets the collection of entries within the phone book.</td>
</tr>
<tr>
<td><strong>Path</strong></td>
<td>Gets the full path (including filename) of the phone book.</td>
</tr>
<tr>
<td><strong>PhoneBookType</strong></td>
<td>Gets the type of phone book.</td>
</tr>
<tr>
<td><strong>Site</strong></td>
<td>Gets or sets the <code>ISite</code> of the <code>Component</code>. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td><strong>SynchronizingObject</strong></td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component. (Inherited from <code>RasComponent</code>.)</td>
</tr>
</tbody>
</table>
### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changed</td>
<td>Occurs when the phone book has changed.</td>
</tr>
<tr>
<td>Deleted</td>
<td>Occurs when the phone book has been deleted.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the component has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>RasComponent</code>.)</td>
</tr>
<tr>
<td>Renamed</td>
<td>Occurs when the phone book has been renamed.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBook Class
DotRas Namespace

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RasPhoneBook Constructor

See Also

Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasPhoneBook()</td>
<td>Initializes a new instance of the RasPhoneBook class.</td>
</tr>
<tr>
<td>RasPhoneBook(IContainer)</td>
<td>Initializes a new instance of the RasPhoneBook class.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook Constructor

Initializes a new instance of the RasPhoneBook class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasPhoneBook()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasPhoneBook()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; RasPhoneBook</code></td>
</tr>
</tbody>
</table>
See Also

- RasPhoneBook Class
- RasPhoneBook Members
- RasPhoneBook Overload
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Initializes a new instance of the RasPhoneBook class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasPhoneBook(IContainer container)</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub New (container As IContainer)</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: RasPhoneBook(IContainer^ container)</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>new : container : IContainer -&gt; RasPhoneBook</code></td>
</tr>
</tbody>
</table>

### Parameters

`container`  
Type: [System.ComponentModel.IContainer](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodelicontainer)  
An IContainer that will contain the component.
See Also

RasPhoneBook Class
RasPhoneBook Members
RasPhoneBook Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasPhoneBook** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
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<tr>
<td><strong>Dispose</strong></td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
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<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
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<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetPhoneBookPath</strong></td>
<td>Determines the full path (including filename) of the phone book.</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Open()</strong></td>
<td>Obsolete.Opens the phone book.</td>
</tr>
<tr>
<td><strong>Open(Boolean)</strong></td>
<td>Obsolete.Opens the phone book.</td>
</tr>
<tr>
<td><strong>Open(String)</strong></td>
<td>Opens the phone book.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of</td>
</tr>
</tbody>
</table>
the `Component`, if any. This method should not be overridden. (Inherited from `Component`.)
See Also

RasPhoneBook Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Determines the full path (including filename) of the phone book.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public static string GetPhoneBookPath(
    RasPhoneBookType phoneBookType
)
```

**Visual Basic**

```vbnet
Public Shared Function GetPhoneBookPath (  
    phoneBookType As RasPhoneBookType  
) As String
```

**Visual C++**

```cpp
public:
    static String^ GetPhoneBookPath(  
        RasPhoneBookType phoneBookType
    )
```

**F#**

```fsharp
static member GetPhoneBookPath :  
    phoneBookType : RasPhoneBookType -> string
```

### Parameters

*phoneBookType*

Type: [DotRas.RasPhoneBookType](#)

The type of phone book to locate.

### Return Value

Type: [String](#)

The full path (including filename) of the phone book.
Remarks

Custom will always return a null reference (Nothing in Visual Basic).
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook.Open Method

RasPhoneBook Class See Also Send Feedback
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Open()</code></td>
<td><strong>Obsolete.</strong> Opens the phone book.</td>
</tr>
<tr>
<td><code>Open(Boolean)</code></td>
<td><strong>Obsolete.</strong> Opens the phone book.</td>
</tr>
<tr>
<td><code>Open(String)</code></td>
<td>Opens the phone book.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Opens the phone book.

**Namespace:** [DotRas](#)  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```csharp
[ObsoleteAttribute("This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)]
public void Open()``` |
| Visual Basic | ```vbnet
<ObsoleteAttribute("This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)>
Public Sub Open``` |
| Visual C++ | ```cpp
public:
[ObsoleteAttribute(L"This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)]
void Open()` | |
| F#       | ```fsharp
[<ObsoleteAttribute("This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)>]
member Open : unit -> unit``` |
Remarks

This method opens the existing default phone book in the All Users profile, or creates a new phone book if the file does not already exist.
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>System.UnauthorizedAccessException</td>
<td>The caller does not have the required permission to perform the action requested.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBook Class
RasPhoneBook Members
Open Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Opens the phone book.

**Namespace:** [DotRas](#)  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | `[ObsoleteAttribute("This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)]
  public void Open(
      bool openUserPhoneBook
  ) |
| **Visual Basic** | `<ObsoleteAttribute("This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)>
  Public Sub Open (  
      openUserPhoneBook As Boolean
  )` |
| **Visual C++** | `public:
  [ObsoleteAttribute(L"This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)]
  void Open(
      bool openUserPhoneBook
  )` |
| **F#**    | `[<ObsoleteAttribute("This method will be removed in a future version, please use the Open(string) overload to open the phone book.", false)>]
  member Open :
      openUserPhoneBook : bool -> unit` |

### Parameters

`openUserPhoneBook`
Type: `System.Boolean`

`true` to open the phone book in the user's profile; otherwise, `false` to open the system phone book in the All Users profile.
Remarks

This method opens an existing phone book or creates a new phone book if the file does not already exist.
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
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</tr>
</thead>
<tbody>
<tr>
<td><code>System.UnauthorizedAccessException</code></td>
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</tr>
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</table>
See Also

RasPhoneBook Class
RasPhoneBook Members
Open Overload
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Opens the phone book.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | `public void Open(  
|          |    string phoneBookPath  
|          | )` |
| Visual Basic | `Public Sub Open (  
|             |    phoneBookPath As String  
|             | )` |
| Visual C++ | `public:  
|           | void Open(  
|           |    String^ phoneBookPath  
|           | )` |
| F#       | `member Open :  
|          |    phoneBookPath : string -> unit` |

### Parameters

*phoneBookPath*

Type: `System.String`

The path (including filename) of a phone book.
Remarks

This method opens an existing phone book or creates a new phone book if the file does not already exist.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentException</code></td>
<td><code>phoneBookPath</code> is an empty string or null reference (Nothing in Visual Basic).</td>
</tr>
<tr>
<td><code>System.UnauthorizedAccessException</code></td>
<td>The caller does not have the required permission to perform the action requested.</td>
</tr>
</tbody>
</table>
See Also

- RasPhoneBook Class
- RasPhoneBook Members
- Open Overload
- DotRas Namespace

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RasPhoneBook Properties

See Also Send Feedback

The RasPhoneBook type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>Gets the <a href="#">IContainer</a> that contains the <a href="#">Component</a>. (Inherited from <a href="#">Component</a>.)</td>
</tr>
<tr>
<td>EnableFileWatcher</td>
<td>Gets or sets a value indicating whether the phone book file will be monitored for external changes.</td>
</tr>
<tr>
<td>Entries</td>
<td>Gets the collection of entries within the phone book.</td>
</tr>
<tr>
<td>Path</td>
<td>Gets the full path (including filename) of the phone book.</td>
</tr>
<tr>
<td>PhoneBookType</td>
<td>Gets the type of phone book.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the <a href="#">ISite</a> of the <a href="#">Component</a>. (Inherited from <a href="#">Component</a>.)</td>
</tr>
<tr>
<td>SynchronizingObject</td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component.  (Inherited from <a href="#">RasComponent</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBook Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook.EnableFileWatcher Property

Gets or sets a value indicating whether the phone book file will be monitored for external changes.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool EnableFileWatcher { get; set; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property EnableFileWatcher As Boolean Get Set</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool EnableFileWatcher { bool get (); void set (bool value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member EnableFileWatcher : bool with get, set</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Boolean](#)
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook.Entries Property

Gets the collection of entries within the phone book.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public RasEntryCollection Entries { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property Entries As RasEntryCollection Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property RasEntryCollection^ Entries { RasEntryCollection^ get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member Entries : RasEntryCollection with get</td>
</tr>
</tbody>
</table>

## Property Value

Type: [RasEntryCollection](#)
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook.Path Property

RasPhoneBook Class See Also Send Feedback

Gets the full path (including filename) of the phone book.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public string Path { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property Path As String
Get
``` |
| **Visual C++** | ```
public:
property String^ Path {
    String^ get ();
}
``` |
| **F#** | ```
member Path : string with get
``` |

### Property Value

Type: [String](#)
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the type of phone book.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public RasPhoneBookType PhoneBookType { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Property PhoneBookType As RasPhoneBookType
Get
```

#### Visual C++

```cpp
public:
property RasPhoneBookType PhoneBookType {
RasPhoneBookType get ()
}
```

#### F#

```fsharp
member PhoneBookType : RasPhoneBookType with get
```

### Property Value

Type: [RasPhoneBookType](#)
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasPhoneBook** type exposes the following members.
### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changed</td>
<td>Occurs when the phone book has changed.</td>
</tr>
<tr>
<td>Deleted</td>
<td>Occurs when the phone book has been deleted.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the component has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>RasComponent</code>.)</td>
</tr>
<tr>
<td>Renamed</td>
<td>Occurs when the phone book has been renamed.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBook Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook.Changed Event

Occurs when the phone book has changed.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public event EventHandler&lt;EventArgs&gt; Changed</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Event Changed As EventHandler(Of EventArgs)</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
</tbody>
</table>
| public:
  event EventHandler<EventArgs^>^ Changed {
    void add (EventHandler<EventArgs^>^ value);
    void remove (EventHandler<EventArgs^>^ value);
  } |   |
| **F#** |   |
| member Changed : IEvent<EventHandler<EventArgs>, EventArgs> |   |

### Value

Type: `System.EventHandler<EventArgs>`
Remarks

This event may be raised multiple times depending on how the file was changed.
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook.Deleted Event

Occurs when the phone book has been deleted.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public event EventHandler<EventArgs> Deleted
```

**Visual Basic**

```vbnet
Public Event Deleted As EventHandler(Of EventArgs)
```

**Visual C++**

```cpp
public:
    event EventHandler<EventArgs^>^ Deleted {
        void add (EventHandler<EventArgs^>^ value);
        void remove (EventHandler<EventArgs^>^ value);
    }
```

**F#**

```fsharp
member Deleted : IEvent<EventHandler<EventArgs>, EventArgs>
```

### Value

Type: [System.EventHandler](https://docs.microsoft.com/en-us/dotnet/api/system.eventhandler)([EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.eventargs))
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBook.Renamed Event

Occurs when the phone book has been renamed.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public event EventHandler<RenamedEventArgs> Renamed
```

### Visual Basic

```vbnet
Public Event Renamed As EventHandler(Of RenamedEventArgs)
```

### Visual C++

```cpp
public:
    event EventHandler<RenamedEventArgs^>^ Renamed {
        void add (EventHandler<RenamedEventArgs^>^ value);
        void remove (EventHandler<RenamedEventArgs^>^ value);
    }
```

### F#

```fsharp
member Renamed : IEvent<EventHandler<RenamedEventArgs^>^>
```

## Value

Type: `System.EventHandler<RenamedEventArgs>`
See Also

RasPhoneBook Class
RasPhoneBook Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Displays the primary Dial-Up Networking dialog box. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public sealed class RasPhoneBookDialog : RasCommonDialog</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public NotInheritable Class RasPhoneBookDialog Inherits RasCommonDialog</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public ref class RasPhoneBookDialog sealed : public RasCommonDialog</code></td>
</tr>
</tbody>
</table>
| **F#**   | `[<SealedAttribute>] type RasPhoneBookDialog =
    class
    inherit RasCommonDialog
end` |
### Examples

The following example shows how to use the **RasPhoneBookDialog** component to display the main dial-up networking dialog box.

<table>
<thead>
<tr>
<th>C#</th>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| RasPhoneBookDialog dialog = new RasPhoneBookDialog();
|     public void Begin()
|     {
|     } dialog.AddedEntry += new EventHandler<RasPhoneBookDialogEventArgs>(
|     )
|     dialog.ChangedEntry += new EventHandler<RasPhoneBookDialogEventArgs>(
|     )
|     dialog.DialedEntry += new EventHandler<RasPhoneBookDialogEventArgs>(
|     )
|     dialog.RemovedEntry += new EventHandler<RasPhoneBookDialogEventArgs>(
|     )
|     {
|     } // The dialog has closed successfully.
|     } private void dialog_AddedEntry(object sender, RasPhoneBookDialogEventArgs e)
|     {
|     } // The dialog has added a new entry.
|     } private void dialog_ChangedEntry(object sender, RasPhoneBookDialogEventArgs e)
|     {
|     } // The dialog has changed an entry.
|     } private void dialog_DialedEntry(object sender, RasPhoneBookDialogEventArgs e)
|     {
|     } // The dialog has dialed an entry.
|     } private void dialog_RemovedEntry(object sender, RasPhoneBookDialogEventArgs e)
|     {
|     } // The dialog removed an entry.
Dim dialog As New RasPhoneBookDialog
Public Sub Begin()
    AddHandler dialog.AddedEntry, Me.dialog_AddedEntry
    AddHandler dialog.ChangedEntry, Me.dialog_ChangedEntry
    AddHandler dialog.DialedEntry, Me.dialog_DialedEntry
    AddHandler dialog.RemovedEntry, Me.dialog_RemovedEntry
    If (dialog.ShowDialog() = System.Windows.Forms.DialogResult.OK)
        ' The dialog has closed successfully.
    End If
End Sub
Private Sub dialog_AddedEntry(ByVal sender As Object,
    ' The dialog has added a new entry.
End Sub
Private Sub dialog_ChangedEntry(ByVal sender As Object,
    ' The dialog has changed an entry.
End Sub
Private Sub dialog_DialedEntry(ByVal sender As Object,
    ' The dialog has dialed an entry.
End Sub
Private Sub dialog_RemovedEntry(ByVal sender As Object,
    ' The dialog removed an entry.
End Sub
Inheritance Hierarchy

- System.Object
- System.MarshalByRefObject
- System.ComponentModel.Component
- DotRas.Design.RasCommonDialog
- DotRas.RasPhoneBookDialog
See Also

RasPhoneBookDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasPhoneBookDialog** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasPhoneBookDialog</td>
<td>Initializes a new instance of the RasPhoneBookDialog class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets all RasPhoneBookDialog properties to their default values. (Overrides RasCommonDialog.Reset().)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>ShowDialog()</strong></td>
<td>Runs a common dialog box with a default owner. (Inherited from CommonDialog.)</td>
</tr>
<tr>
<td><strong>ShowDialog(IWin32Window)</strong></td>
<td>Runs a common dialog box with the specified owner. (Inherited from CommonDialog.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden. (Inherited from Component.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CallbackId</strong></td>
<td>Gets or sets the application defined value to be passed to the events when raised.</td>
</tr>
<tr>
<td><strong>Container</strong></td>
<td>Gets the <a href="https://example.com/icontainer">IContainer</a> that contains the <a href="https://example.com/component">Component</a>. (Inherited from <a href="https://example.com/component">Component</a>.)</td>
</tr>
<tr>
<td><strong>EntryName</strong></td>
<td>Gets or sets the name of the entry to initially highlight.</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Gets or sets the coordinates of the upper-left corner of the dialog box. (Inherited from <a href="https://example.com/rascommondialog">RasCommonDialog</a>.)</td>
</tr>
<tr>
<td><strong>PhoneBookPath</strong></td>
<td>Gets or sets the full path (including file name) to the phone book.</td>
</tr>
<tr>
<td><strong>Site</strong></td>
<td>Gets or sets the <a href="https://example.com/isite">ISite</a> of the <a href="https://example.com/component">Component</a>. (Inherited from <a href="https://example.com/component">Component</a>.)</td>
</tr>
<tr>
<td><strong>Tag</strong></td>
<td>Gets or sets an object that contains data about the control. (Inherited from <a href="https://example.com/commondialog">CommonDialog</a>.)</td>
</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddedEntry</td>
<td>Occurs when the user creates a new entry or copies an existing entry.</td>
</tr>
<tr>
<td>ChangedEntry</td>
<td>Occurs when the user changes an existing phone book entry.</td>
</tr>
<tr>
<td>DialedEntry</td>
<td>Occurs when the user successfully dials an entry.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Component.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the dialog has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasCommonDialog.)</td>
</tr>
<tr>
<td>HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from CommonDialog.)</td>
</tr>
<tr>
<td>RemovedEntry</td>
<td>Occurs when the user removes a phone book entry.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBookDialog Constructor

Initializes a new instance of the RasPhoneBookDialog class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasPhoneBookDialog()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasPhoneBookDialog()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; RasPhoneBookDialog</code></td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasPhoneBookDialog** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
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<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
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<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets all RasPhoneBookDialog properties to their default values. (Overides RasCommonDialog.Reset().)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>ShowDialog()</strong></td>
<td>Runs a common dialog box with a default owner. (Inherited from <a href="#">CommonDialog</a>.)</td>
</tr>
<tr>
<td><strong>ShowDialog(IWin32Window)</strong></td>
<td>Runs a common dialog box with the specified owner. (Inherited from <a href="#">CommonDialog</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a <a href="#">String</a> containing the name of the <a href="#">Component</a>, if any. This method should not be overridden. (Inherited from <a href="#">Component</a>.)</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBookDialog.Reset Method

Resets all RasPhoneBookDialog properties to their default values.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**    | ```csharp
public override void Reset()
``` |
| **Visual Basic** | ```vbnet
Public Overrides Sub Reset
``` |
| **Visual C++** | ```cpp
public:
virtual void Reset() override
``` |
| **F#**   | ```fsharp
abstract Reset : unit -> unit
override Reset : unit -> unit
``` |
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasPhoneBookDialog** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CallbackId</td>
<td>Gets or sets the application defined value to be passed to the events when raised.</td>
</tr>
<tr>
<td>Container</td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>EntryName</td>
<td>Gets or sets the name of the entry to initially highlight.</td>
</tr>
<tr>
<td>Location</td>
<td>Gets or sets the coordinates of the upper-left corner of the dialog box. (Inherited from RasCommonDialog.)</td>
</tr>
<tr>
<td>PhoneBookPath</td>
<td>Gets or sets the full path (including file name) to the phone book.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Tag</td>
<td>Gets or sets an object that contains data about the control. (Inherited from CommonDialog.)</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBookDialog.CallbackId Property

Gets or sets the application defined value to be passed to the events when raised.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public IntPtr CallbackId { get; set; }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Property CallbackId As IntPtr
Get
Set` |
| **Visual C++** | `public:
property IntPtr CallbackId {
    IntPtr get ();
    void set (IntPtr value);
};` |
| **F#**   | `member CallbackId : IntPtr with get, set` |

### Property Value

Type: **IntPtr**
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the name of the entry to initially highlight.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public string EntryName { get; set; }</code></td>
</tr>
</tbody>
</table>
| Visual Basic | `Public Property EntryName As String`  
  `Get`  
  `Set` |
| Visual C++ | `public: property String^ EntryName {`  
  `  String^ get ();`  
  `  void set (String^ value);` |
| F#       | `member EntryName : string with get, set` |

### Property Value

Type: [String](#)
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets or sets the full path (including file name) to the phone book.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public string PhoneBookPath { get; set; }
```

**Visual Basic**

```vbnet
Public Property PhoneBookPath As String
    Get
        ...  
    End Get
    Set
        ...  
    End Set
```

**Visual C++**

```cpp
public:
    property String^ PhoneBookPath {
        String^ get ()
        void set (String^ value);
    }
```

**F#**

```fsharp
member PhoneBookPath : string with get, set
```

### Property Value

Type: [String](#)
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

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The **RasPhoneBookDialog** type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddedEntry</td>
<td>Occurs when the user creates a new entry or copies an existing entry.</td>
</tr>
<tr>
<td>ChangedEntry</td>
<td>Occurs when the user changes an existing phone book entry.</td>
</tr>
<tr>
<td>DialedEntry</td>
<td>Occurs when the user successfully dials an entry.</td>
</tr>
<tr>
<td>Disposed</td>
<td>Occurs when the component is disposed by a call to the Dispose() method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Component.)</td>
</tr>
<tr>
<td>Error</td>
<td>Occurs when the dialog has encountered an error.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from RasCommonDialog.)</td>
</tr>
<tr>
<td>HelpRequest</td>
<td>Occurs when the user clicks the Help button on a common dialog box.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from CommonDialog.)</td>
</tr>
<tr>
<td>RemovedEntry</td>
<td>Occurs when the user removes a phone book entry.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialog Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBookDialog.AddedEntry Event

Occurs when the user creates a new entry or copies an existing entry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public event EventHandler&lt;RasPhoneBookDialogEventArgs&gt;</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Event AddedEntry As EventHandler(Of RasPhoneBookDialogEventArgs)</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: event EventHandler&lt;RasPhoneBookDialogEventArgs^&gt;^ AddedEntry; void add (EventHandler&lt;RasPhoneBookDialogEventArgs&gt;^ @); void remove (EventHandler&lt;RasPhoneBookDialogEventArgs&gt;^ @}</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member AddedEntry : IEvent&lt;EventHandler&lt;RasPhoneBookDialogEventArgs&gt;&gt;</code></td>
</tr>
</tbody>
</table>

### Value

**Type:**  `System.EventHandler<RasPhoneBookDialogEventArgs>`
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBookDialog.ChangedEntry Event

Occurs when the user changes an existing phone book entry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public event EventHandler<RasPhoneBookDialogEventArgs> ChangedEntry;
```

### Visual Basic

```vbnet
Public Event ChangedEntry As EventHandler(Of RasPhoneBookDialogEventArgs)
```

### Visual C++

```cpp
public:
    event EventHandler<RasPhoneBookDialogEventArgs^>^ ChangedEntry;

    void add (EventHandler<RasPhoneBookDialogEventArgs^>^ value)
    void remove (EventHandler<RasPhoneBookDialogEventArgs^>^ value)
```

### F#

```fsharp
member ChangedEntry : IEvent<EventHandler<RasPhoneBookDialogEventArgs>>
```

## Value

Type: `System.EventHandler<RasPhoneBookDialogEventArgs>`
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

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RasPhoneBookDialog.DialedEntry Event

Occurs when the user successfully dials an entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public event EventHandler<RasPhoneBookDialogEventArgs> DialedEntry;
```

#### Visual Basic

```vbnet
Public Event DialedEntry As EventHandler(Of RasPhoneBookDialogEventArgs)
```

#### Visual C++

```cpp
public:
    event EventHandler<RasPhoneBookDialogEventArgs>^ DialedEntry;

    void add (EventHandler<RasPhoneBookDialogEventArgs>^ e)
    void remove (EventHandler<RasPhoneBookDialogEventArgs>^ e)
```

#### F#

```fsharp
member DialedEntry : IEvent<EventHandler<RasPhoneBookDialogEventArgs>>
```

### Value

Type: `System.EventHandler<RasPhoneBookDialogEventArgs>`
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

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RasPhoneBookDialog.RemovedEntry Event

Occurs when the user removes a phone book entry.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public event EventHandler&lt;RasPhoneBookDialogEventArgs&gt;</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Event RemovedEntry As EventHandler(Of RasPhoneBookDialogEventArgs)</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: event EventHandler&lt;RasPhoneBookDialogEventArgs^&gt;^ RemovedEntry; void add (EventHandler&lt;RasPhoneBookDialogEventArgs^&gt;) override; void remove (EventHandler&lt;RasPhoneBookDialogEventArgs^&gt;) override</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member RemovedEntry : IEvent&lt;EventHandler&lt;RasPhoneBookDialogEventArgs&gt;&gt;</code></td>
</tr>
</tbody>
</table>

### Value

Type: `System.EventHandler<RasPhoneBookDialogEventArgs>`
See Also

RasPhoneBookDialog Class
RasPhoneBookDialog Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Provides data for RasPhoneBookDialog events.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public class RasPhoneBookDialogEventArgs : EventArgs
```

**Visual Basic**

```vbnet
Public Class RasPhoneBookDialogEventArgs
    Inherits EventArgs
```

**Visual C++**

```cpp
public ref class RasPhoneBookDialogEventArgs : public
```

**F#**

```fsharp
type RasPhoneBookDialogEventArgs =
    class
        inherit EventArgs
    end
```
Inheritance Hierarchy

System.Object
System.EventArgs
DotRas.RasPhoneBookDialogEventArgs
See Also

RasPhoneBookDialogEventArgs Members
DotRas Namespace
The **RasPhoneBookDialogEventArgs** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasPhoneBookDialogEventArgs</td>
<td>Initializes a new instance of the RasPhoneBookDialogEventArgs class.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CallbackId</td>
<td>Gets an application defined value that was passed to the event.</td>
</tr>
<tr>
<td>Data</td>
<td>Gets a pointer to an additional buffer of data whose meaning depends on the event which was raised.</td>
</tr>
<tr>
<td>Text</td>
<td>Gets a string whose meaning depends on the event which was raised.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialogEventArgs Class
DotRas Namespace
RasPhoneBookDialogEventArgs Constructor

Initializes a new instance of the RasPhoneBookDialogEventArgs class.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public RasPhoneBookDialogEventArgs(
    IntPtr callbackId,
    string text,
    IntPtr data
)
```

**Visual Basic**

```vbnet
Public Sub New (    callbackId As IntPtr,    text As String,    data As IntPtr
)
```

**Visual C++**

```cpp
public:    RasPhoneBookDialogEventArgs(
    IntPtr callbackId,
    String^ text,    IntPtr data
)
```

**F#**

```fsharp
new :    callbackId : IntPtr *    text : string *    data : IntPtr -> RasPhoneBookDialogEventArgs
```

### Parameters

`callbackId`
Type: `System.IntPtr`
The application defined value that was passed to the event.

`text`
Type: `System.String`
A string whose meaning depends on the event which was raised.

`data`
Type: `System.IntPtr`
A pointer to an additional buffer of data whose meaning depends on the event which was raised.
See Also

RasPhoneBookDialogEventArgs Class
RasPhoneBookDialogEventArgs Members
DotRas Namespace

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The `RasPhoneBookDialogEventArgs` type exposes the following members.
## Methods

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</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialogEventArgs Class
DotRas Namespace

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The `RasPhoneBookDialogEventArgs` type exposes the following members.
# Properties

<table>
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<th>Description</th>
</tr>
</thead>
<tbody>
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<td>CallbackId</td>
<td>Gets an application defined value that was passed to the event.</td>
</tr>
<tr>
<td>Data</td>
<td>Gets a pointer to an additional buffer of data whose meaning depends on the event which was raised.</td>
</tr>
<tr>
<td>Text</td>
<td>Gets a string whose meaning depends on the event which was raised.</td>
</tr>
</tbody>
</table>
See Also

RasPhoneBookDialogEventArgs Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBookDialogEventArgs.CallbackId Property

Gets an application defined value that was passed to the event.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>public IntPtr CallbackId { get; }</td>
<td>Public ReadOnly Property CallbackId As IntPtr Get</td>
<td>public: property IntPtr CallbackId { IntPtr get (); }</td>
<td>member CallbackId : IntPtr with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: IntPtr
See Also

RasPhoneBookDialogEventArgs Class
RasPhoneBookDialogEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPhoneBookDialogEventArgs.Data Property

Gets a pointer to an additional buffer of data whose meaning depends on the event which was raised.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public IntPtr Data { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property Data As IntPtr Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property IntPtr Data { IntPtr get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member Data : IntPtr with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: **IntPtr**
See Also

RasPhoneBookDialogEventArgs Class
RasPhoneBookDialogEventArgs Members
DotRas Namespace
Gets a string whose meaning depends on the event which was raised.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public string Text { get; }</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public Readonly Property Text As String Get</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: property String^ Text { String^ get (); }</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>member Text : string with get</code></td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**
Type: [String](#)
See Also

RasPhoneBookDialogEventArgs Class
RasPhoneBookDialogEventArgs Members
DotRas Namespace
RasPhoneBookType Enumeration

Defines the phone book types.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>public enum</strong> RasPhoneBookType</td>
<td><strong>Public Enumeration</strong> RasPhoneBookType</td>
<td><strong>public enum class</strong> RasPhoneBookType</td>
<td><strong>type</strong> RasPhoneBookType</td>
<td></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member Name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom</td>
<td>-1</td>
<td>The phone book is in a custom location.</td>
</tr>
<tr>
<td>User</td>
<td>0</td>
<td>The phone book is in the user's profile.</td>
</tr>
<tr>
<td>AllUsers</td>
<td>1</td>
<td>The phone book is a system phone book and is in the All Users profile.</td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains the result of a Point-to-Point (PPP) projection operation. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;<code>public sealed class RasPppInfo</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;SerializableAttribute&gt;</code>&lt;br&gt;<code>Public NotInheritable Class RasPppInfo</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>[SerializableAttribute]</code>&lt;br&gt;<code>public ref class RasPppInfo sealed</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>[&lt;SealedAttribute&gt;]</code>&lt;br&gt;[<code>&lt;SerializableAttribute&gt;</code>]<code>&lt;br&gt;</code>type RasPppInfo =  class end`</td>
</tr>
</tbody>
</table>
Remarks

This object is created from a Ppp projection operation on a connection.

Known Limitations:

- This type is only available on Windows 7 and later operating systems.
### Examples

This example shows how to perform a PPP projection operation on an active connection.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasConnection connection = RasConnection.GetActiveConnectionByName()</td>
</tr>
<tr>
<td>if (connection != null)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>RasPppInfo info = (RasPppInfo)connection.GetProjectionInfo(RasProjectionType.Ppp)</td>
</tr>
<tr>
<td>if (info != null)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>// info now contains the PPP projection data.</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim connection As RasConnection = RasConnection.GetActiveConnectionByName()</td>
</tr>
<tr>
<td>If connection IsNot Nothing Then</td>
</tr>
<tr>
<td>Dim info As RasPppInfo = CType(connection.GetProjectionInfo(RasProjectionType.Ppp), RasPppInfo)</td>
</tr>
<tr>
<td>If info IsNot Nothing Then</td>
</tr>
<tr>
<td>' info now contains the PPP projection data.</td>
</tr>
<tr>
<td>End If</td>
</tr>
<tr>
<td>End If</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

- System.Object
- DotRas.RasPppInfo
See Also

RasPppInfo Members
DotRas Namespace

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The RasPppInfo type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <code>Object</code>.)</td>
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<tr>
<td><strong>GetType</strong></td>
<td>Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <code>Object</code>.)</td>
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</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationData</td>
<td>Gets the authentication data used by the local client.</td>
</tr>
<tr>
<td>AuthenticationProtocol</td>
<td>Gets the authentication protocol used to authenticate the local client.</td>
</tr>
<tr>
<td>CcpCompressionAlgorithm</td>
<td>Gets the compression algorithm in use by the local client.</td>
</tr>
<tr>
<td>CcpOptions</td>
<td>Gets the compression options on the local client.</td>
</tr>
<tr>
<td>EapTypeId</td>
<td>Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the local client.</td>
</tr>
<tr>
<td>InterfaceIdentifier</td>
<td>Gets the 64-bit IPv6 interface identifier of the client.</td>
</tr>
<tr>
<td>IPAddress</td>
<td>Gets the IP address of the local client.</td>
</tr>
<tr>
<td>Ipv4NegotiationErrorCode</td>
<td>Gets the result of a PPP IPv4 network control protocol negotiation.</td>
</tr>
<tr>
<td>Ipv6NegotiationErrorCode</td>
<td>Gets the result of a PPP IPv6 network control protocol negotiation.</td>
</tr>
<tr>
<td>IsBundled</td>
<td>Gets a value indicating whether the connection is composed of multiple links.</td>
</tr>
<tr>
<td>IsMultilink</td>
<td>Gets a value indicating whether the connection supports multiple links.</td>
</tr>
<tr>
<td>LcpOptions</td>
<td>Gets the Link Control Protocol (LCP) options in use by the local client.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Gets the Internet Protocol Control Protocol (IPCP) options for the local client.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationData</strong></td>
<td>Gets the authentication data used by the remote server.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationProtocol</strong></td>
<td>Gets the authentication protocol used by the remote server.</td>
</tr>
<tr>
<td><strong>ServerCcpCompressionAlgorithm</strong></td>
<td>Gets the compression algorithm in use by the remote server.</td>
</tr>
<tr>
<td><strong>ServerCcpOptions</strong></td>
<td>Gets the compression options on the remote server.</td>
</tr>
<tr>
<td><strong>ServerEapTypeId</strong></td>
<td>Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the remote server.</td>
</tr>
<tr>
<td><strong>ServerInterfaceIdentifier</strong></td>
<td>Gets the 64-bit IPv6 interface identifier of the server.</td>
</tr>
<tr>
<td><strong>ServerIPAddress</strong></td>
<td>Gets the IP address of the remote server.</td>
</tr>
<tr>
<td><strong>ServerLcpOptions</strong></td>
<td>Gets the Link Control Protocol (LCP) options in use by the remote server.</td>
</tr>
<tr>
<td><strong>ServerOptions</strong></td>
<td>Gets the Internet Protocol Control Protocol (IPCP) options for the remote server.</td>
</tr>
</tbody>
</table>
See Also

RasPppInfo Class
DotRas Namespace
The **RasPppInfo** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
</tbody>
</table>
See Also

- RasPppInfo Class
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasPppInfo** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationData</td>
<td>Gets the authentication data used by the local client.</td>
</tr>
<tr>
<td>AuthenticationProtocol</td>
<td>Gets the authentication protocol used to authenticate the local client.</td>
</tr>
<tr>
<td>CcpCompressionAlgorithm</td>
<td>Gets the compression algorithm in use by the local client.</td>
</tr>
<tr>
<td>CcpOptions</td>
<td>Gets the compression options on the local client.</td>
</tr>
<tr>
<td>EapTypeId</td>
<td>Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the local client.</td>
</tr>
<tr>
<td>InterfaceIdentifier</td>
<td>Gets the 64-bit IPv6 interface identifier of the client.</td>
</tr>
<tr>
<td>IPAddress</td>
<td>Gets the IP address of the local client.</td>
</tr>
<tr>
<td>IPv4NegotiationErrorCode</td>
<td>Gets the result of a PPP IPv4 network control protocol negotiation.</td>
</tr>
<tr>
<td>IPv6NegotiationErrorCode</td>
<td>Gets the result of a PPP IPv6 network control protocol negotiation.</td>
</tr>
<tr>
<td>IsBundled</td>
<td>Gets a value indicating whether the connection is composed of multiple links.</td>
</tr>
<tr>
<td>IsMultilink</td>
<td>Gets a value indicating whether the connection supports multiple links.</td>
</tr>
<tr>
<td>LcpOptions</td>
<td>Gets the Link Control Protocol (LCP) options in use by the local client.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Gets the Internet Protocol Control Protocol (IPCP) options for the local client.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationData</strong></td>
<td>Gets the authentication data used by the remote server.</td>
</tr>
<tr>
<td><strong>ServerAuthenticationProtocol</strong></td>
<td>Gets the authentication protocol used by the remote server.</td>
</tr>
<tr>
<td><strong>ServerCcpCompressionAlgorithm</strong></td>
<td>Gets the compression algorithm in use by the remote server.</td>
</tr>
<tr>
<td><strong>ServerCcpOptions</strong></td>
<td>Gets the compression options on the remote server.</td>
</tr>
<tr>
<td><strong>ServerEapTypeId</strong></td>
<td>Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the remote server.</td>
</tr>
<tr>
<td><strong>ServerInterfaceIdentifier</strong></td>
<td>Gets the 64-bit IPv6 interface identifier of the server.</td>
</tr>
<tr>
<td><strong>ServerIPAddress</strong></td>
<td>Gets the IP address of the remote server.</td>
</tr>
<tr>
<td><strong>ServerLcpOptions</strong></td>
<td>Gets the Link Control Protocol (LCP) options in use by the remote server.</td>
</tr>
<tr>
<td><strong>ServerOptions</strong></td>
<td>Gets the Internet Protocol Control Protocol (IPCP) options for the remote server.</td>
</tr>
</tbody>
</table>
See Also

RasPppInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.AuthenticationData Property

Gets the authentication data used by the local client.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasLcpAuthenticationDataType AuthenticationData</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property AuthenticationData As RasLcpAuthenticationDataType Get</code></td>
</tr>
</tbody>
</table>
| Visual C++ | `public: property RasLcpAuthenticationDataType AuthenticationData
RasLcpAuthenticationDataType get();` |
| F#         | `member AuthenticationData : RasLcpAuthenticationDataType`          |

**Property Value**

Type: [RasLcpAuthenticationDataType](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.AuthenticationProtocol Property

Gets the authentication protocol used to authenticate the local client.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **C#**   | ```
public RasLcpAuthenticationType AuthenticationProtocol
``` |
| **Visual Basic** | ```
Public ReadOnly Property AuthenticationProtocol As RasLcpAuthenticationType
``` |
| **Visual C++** | ```
public:
property RasLcpAuthenticationType AuthenticationProtocol
RasLcpAuthenticationType get();
``` |
| **F#**    | ```
member AuthenticationProtocol : RasLcpAuthenticationType
``` |

### Property Value

Type: [RasLcpAuthenticationType](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.CcpCompressionAlgorithm Property

Gets the compression algorithm in use by the local client.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><code>public RasCompressionType CcpCompressionAlgorithm { get; }</code></td>
<td><code>Public ReadOnly Property CcpCompressionAlgorithm As RasCompressionType Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: property RasCompressionType CcpCompressionAlgorithm { RasCompressionType get (); }</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>member CcpCompressionAlgorithm : RasCompressionType</code></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasCompressionType](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the compression options on the local client.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public RasCompressionOptions CcpOptions { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property CcpOptions As RasCompressionOptions Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property RasCompressionOptions^ CcpOptions { RasCompressionOptions^ get (); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member CcpOptions : RasCompressionOptions with get</code></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [RasCompressionOptions](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.EapTypeId Property

Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the local client.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public int EapTypeId { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property EapTypeId As Integer Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property int EapTypeId { int get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member EapTypeId : int with get</td>
</tr>
</tbody>
</table>

**Property Value**
Type: Int32
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.InterfaceIdentifier Property

Gets the 64-bit IPv6 interface identifier of the client.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
public ReadOnlyCollection<byte> InterfaceIdentifier {
}
``` |
| Visual Basic | ```
Public ReadOnly Property InterfaceIdentifier As ReadOnlyCollection<byte>
``` |
| Visual C++ | ```
public: 
property ReadOnlyCollection<unsigned char>^ InterfaceIdentifier 
ReadOnlyCollection<unsigned char>^ get ();
``` |
| F#       | ```
member InterfaceIdentifier : ReadOnlyCollection<byte>
``` |

### Property Value

Type: [ReadOnlyCollection[Byte]](Byte)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.IPAddress Property

Gets the IP address of the local client.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public IPAddress IPAddress { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property IPAddress As IPAddress
    Get
```

### Visual C++

```cpp
public:
    property IPAddress^ IPAddress { 
        IPAddress^ get ();
    }
```

### F#

```fsharp
member IPAddress : IPAddress with get
```

## Property Value

Type: [IPAddress](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.IPv4NegotiationErrorCode Property

Gets the result of a PPP IPv4 network control protocol negotiation.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public int IPv4NegotiationErrorCode { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property IPv4NegotiationErrorCode As Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property int IPv4NegotiationErrorCode { int get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member IPv4NegotiationErrorCode : int with get</code></td>
</tr>
</tbody>
</table>

**Property Value**
Type: Int32
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the result of a PPP IPv6 network control protocol negotiation.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public int IPv6NegotiationErrorCode { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property IPv6NegotiationErrorCode As Get
```

**Visual C++**

```cpp
public:
property int IPv6NegotiationErrorCode {
    int get ();
}
```

**F#**

```fsharp
member IPv6NegotiationErrorCode : int with get
```

### Property Value

Type: [Int32](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.IsBundled Property

Gets a value indicating whether the connection is composed of multiple links.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C# | ```csharp
public bool IsBundled { get; }
``` |
| Visual Basic | ```vbnet
Public ReadOnly Property IsBundled As Boolean
Get
``` |
| Visual C++ | ```cpp
public:
property bool IsBundled {
    bool get ();
}
``` |
| F# | ```fsharp
member IsBundled : bool with get
``` |

### Property Value

Type: [Boolean](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.IsMultilink Property

Gets a value indicating whether the connection supports multiple links.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool IsMultilink { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property IsMultilink As Boolean Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property bool IsMultilink { bool get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member IsMultilink : bool with get</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: [Boolean](#)
See Also

- RasPppInfo Class
- RasPppInfo Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the Link Control Protocol (LCP) options in use by the local client.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**   | ```
public RasLcpOptions LcpOptions { get; }
``` |
| **Visual Basic** | ```
Public Readonly Property LcpOptions As RasLcpOptions
Get
``` |
| **Visual C++** | ```
public:
property RasLcpOptions^ LcpOptions {
    RasLcpOptions^ get ();
}
``` |
| **F#** | ```
member LcpOptions : RasLcpOptions with get
``` |

### Property Value

Type: [RasLcpOptions](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the Internet Protocol Control Protocol (IPCP) options for the local client.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public RasIPOptions Options { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property Options As RasIPOptions Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property RasIPOptions^ Options { RasIPOptions^ get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member Options : RasIPOptions with get</td>
</tr>
</tbody>
</table>

### Property Value
Type: [RasIPOptions](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.ServerAuthenticationData Property

Gets the authentication data used by the remote server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>Visual Basic</th>
<th>Visual C++</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>public RasLcpAuthenticationDataType ServerAuthenticationData</td>
<td>Public ReadOnly Property ServerAuthenticationData As Get</td>
<td>public: property RasLcpAuthenticationDataType ServerAuthenticationData</td>
<td>member ServerAuthenticationData : RasLcpAuthenticationDataType</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RasLcpAuthenticationDataType get ();</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasLcpAuthenticationDataType](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.ServerAuthenticationProtocol Property

Gets the authentication protocol used by the remote server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public RasLcpAuthenticationType ServerAuthenticationProtocol;
```  

Visual Basic

```vbnet
Public ReadOnly Property ServerAuthenticationProtocol
Get
```  

Visual C++

```cpp
public:
property RasLcpAuthenticationType ServerAuthenticationProtocol
RasLcpAuthenticationType get ();
```

F#

```fsharp
member ServerAuthenticationProtocol : RasLcpAuthenticationType
```

**Property Value**
Type: [RasLcpAuthenticationType](#)
See Also

- RasPppInfo Class
- RasPppInfo Members
- DotRas Namespace

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RasPppInfo.ServerCcpCompressionAlgorithm Property

Gets the compression algorithm in use by the remote server.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public RasCompressionType ServerCcpCompressionAlgorithm</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property ServerCcpCompressionAlgorithm Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property RasCompressionType ServerCcpCompressionAlgorithm RasCompressionType get ();</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member ServerCcpCompressionAlgorithm : RasCompressionType</td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasCompressionType](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.ServerCcpOptions Property

Gets the compression options on the remote server.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasCompressionOptions ServerCcpOptions { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property ServerCcpOptions As RasCompressionOptions
Get
```

### Visual C++

```cpp
public:
property RasCompressionOptions^ ServerCcpOptions { 
RasCompressionOptions^ get (); 
}
```

### F#

```fsharp
member ServerCcpOptions : RasCompressionOptions with
```

## Property Value

Type: [RasCompressionOptions](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.ServerEapTypeId Property

Gets the type identifier of the Extensible Authentication Protocol (EAP) used to authenticate the remote server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public int ServerEapTypeId { get; }</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property ServerEapTypeId As Integer Get</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: property int ServerEapTypeId { int get (); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member ServerEapTypeId : int with get</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: `Int32`
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

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RasPppInfo.ServerInterfaceIdentifier Property

Gets the 64-bit IPv6 interface identifier of the server.

**Namespace:** DotRas
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public IReadOnlyCollection<byte> ServerInterfaceIdentifier;
```

**Visual Basic**

```vbnet
Public ReadOnly Property ServerInterfaceIdentifier As Getting
```

**Visual C++**

```cpp
public:
property IReadOnlyCollection<unsigned char>& ServerInterfaceIdentifier;

ReadOnlyCollection<unsigned char>& get ()
```

**F#**

```fsharp
member ServerInterfaceIdentifier : ReadOnlyCollection<Byte>
```

### Property Value

Type: `ReadOnlyCollection<Byte>`
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.ServerIPAddress Property

Gets the IP address of the remote server.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public IPAddress ServerIPAddress { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ServerIPAddress As IPAddress Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property IPAddress^ ServerIPAddress { IPAddress^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ServerIPAddress : IPAddress with get</code></td>
</tr>
</tbody>
</table>

### Property Value
Type: `IPAddress`
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasPppInfo.ServerLcpOptions Property

Gets the Link Control Protocol (LCP) options in use by the remote server.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasLcpOptions ServerLcpOptions { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property ServerLcpOptions As RasLcpOptions Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasLcpOptions^ ServerLcpOptions { RasLcpOptions^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member ServerLcpOptions : RasLcpOptions with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasLcpOptions](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace
RasPppInfo.ServerOptions Property

RasPppInfo Class  See Also  Send Feedback

Gets the Internet Protocol Control Protocol (IPCP) options for the remote server.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public RasIPOptions ServerOptions { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property ServerOptions As RasIPOptions
Get
```

### Visual C++

```cpp
public:
property RasIPOptions^ ServerOptions {
    RasIPOptions^ get ()
}
```

### F#

```fsharp
member ServerOptions : RasIPOptions with get
```

## Property Value

Type: [RasIPOptions](#)
See Also

RasPppInfo Class
RasPppInfo Members
DotRas Namespace
RasPreSharedKey Enumeration

Defines the pre-shared keys.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public enum RasPreSharedKey</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Enumeration RasPreSharedKey</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public enum class RasPreSharedKey</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>type RasPreSharedKey</td>
<td></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client</td>
<td>0</td>
<td>The client pre-shared key.</td>
</tr>
<tr>
<td>Server</td>
<td>1</td>
<td>The server pre-shared key.</td>
</tr>
<tr>
<td>Ddm</td>
<td>2</td>
<td>The demand-dial interface (DDI) pre-shared key.</td>
</tr>
</tbody>
</table>
Remarks

Known Limitations:

- This type is only available on Windows XP and later operating systems.
See Also

DotRas Namespace
RasProjectionType Enumeration

Defines the projection types.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum RasProjectionType</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Enumeration RasProjectionType</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public enum class RasProjectionType</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type RasProjectionType</code></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amb</td>
<td>0</td>
<td>Authentication Message Block (AMB) protocol.</td>
</tr>
<tr>
<td>Nbf</td>
<td>1</td>
<td>NetBEUI Framer (NBF) protocol.</td>
</tr>
<tr>
<td>Ipx</td>
<td>2</td>
<td>Internetwork Packet Exchange (IPX) control protocol.</td>
</tr>
<tr>
<td>IP</td>
<td>3</td>
<td>Internet Protocol (IP) control protocol.</td>
</tr>
<tr>
<td>Ccp</td>
<td>4</td>
<td>Compression Control Protocol (CCP).</td>
</tr>
<tr>
<td>Lcp</td>
<td>5</td>
<td>Link Control Protocol (LCP).</td>
</tr>
</tbody>
</table>
| Slip        | 6     | Serial Line Internet Protocol (SLIP).  
  **Windows Vista or later:** This value is no longer supported. |
| IPv6        | 7     | Internet Protocol Version 6 (IPv6) control protocol.  
  **Windows Vista or later:** This value is supported. |
| Ppp         | 8     | Point-to-Point protocol (PPP).  
  **Windows 7 or later:** This value is supported. |
| IkeV2       | 9     | Internet Key Exchange (IKEv2) protocol.  
  **Windows 7 or later:** This value is supported. |
Remarks

The projection types defined here are used on a projection operation on an active connection.
See Also

DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Contains the result of a Serial Line Internet Protocol (SLIP) projection operation. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>[SerializableAttribute] public sealed class RasSlipInfo</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>&lt;SerializableAttribute&gt;</code> Public NotInheritable Class RasSlipInfo</td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>[SerializableAttribute] public ref class RasSlipInfo sealed</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>[@SealedAttribute] [SerializableAttribute] type RasSlipInfo = class end</code></td>
</tr>
</tbody>
</table>
Remarks

This object is created from a Slip projection operation on a connection.
### Examples

This example shows how to perform a SLIP projection operation on an active connection.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasConnection connection = RasConnection.GetActiveConnection()</td>
</tr>
<tr>
<td>if (connection != null)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>RasSlipInfo info = (RasSlipInfo)connection.GetProjectionInfo()</td>
</tr>
<tr>
<td>if (info != null)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>// info now contains the SLIP projection data.</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim connection As RasConnection = RasConnection.GetActiveConnection()</td>
</tr>
<tr>
<td>If connection IsNot Nothing Then</td>
</tr>
<tr>
<td>Dim info As RasSlipInfo = CType(connection.GetProjectionInfo(RasProjectionType.Slip))</td>
</tr>
<tr>
<td>If info IsNot Nothing Then</td>
</tr>
<tr>
<td>' info now contains the SLIP projection data.</td>
</tr>
<tr>
<td>End If</td>
</tr>
<tr>
<td>End If</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
DotRas.RasSlipInfo
The **RasSlipInfo** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>IPAddress</td>
<td>Gets the client IP address on the connection.</td>
</tr>
</tbody>
</table>
See Also

RasSlipInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasSlipInfo** type exposes the following members.
## Methods

<table>
<thead>
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</tr>
<tr>
<td>GetType</td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>.)</td>
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<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>.)</td>
</tr>
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</table>
See Also

RasSlipInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasSlipInfo** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>IPAddress</td>
<td>Gets the client IP address on the connection.</td>
</tr>
</tbody>
</table>
See Also

RasSlipInfo Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the error code (if any) that occurred.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public int ErrorCode { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property ErrorCode As Integer Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property int ErrorCode {</td>
</tr>
<tr>
<td></td>
<td>int get ();</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member ErrorCode : int with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Int32](#)
See Also

RasSlipInfo Class
RasSlipInfo Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasSlipInfo.IPAddress Property

Gets the client IP address on the connection.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public IPAddress IPAddress { get; }</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public ReadOnly Property IPAddress As IPAddress Get</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: property IPAddress^ IPAddress { IPAddress^ get (); }</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>member IPAddress : IPAddress with get</td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**
Type: IPAddress
See Also

RasSlipInfo Class
RasSlipInfo Members
DotRas Namespace

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RasSubEntry Class

Represents a subentry of a remote access service (RAS) entry. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public sealed class RasSubEntry : MarshalByRefObject, ICloneable</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public NotInheritable Class RasSubEntry
Inherits MarshalByRefObject
Implements ICloneable`     |
| **Visual C++** | `public ref class RasSubEntry sealed : public MarshalByRefObject
ICloneable`             |
| **F#**    | `[<SealedAttribute>] type RasSubEntry =
    class
        inherit MarshalByRefObject
        interface ICloneable
    end`                  |
Examples

The following example shows how to create a multilink dial-up entry and add it to a phone book.

**C#**

```csharp
using (RasPhoneBook pbk = new RasPhoneBook())
{
    pbk.Open();
    RasEntry entry = RasEntry.CreateDialUpEntry("Dial-Up Connection");
    if (entry != null)
    {
        entry.DialMode = RasDialMode.DialAll;
        entry.SubEntries.Add(new RasSubEntry()
        {
            PhoneNumber = "555-111-2345"
        });
        pbk.Entries.Add(entry);
    }
}
```

**Visual Basic**

```vbnet
Dim pbk As New RasPhoneBook
pbk.Open()
Dim entry As RasEntry = RasEntry.CreateDialUpEntry("Dial-Up Connection")
If entry IsNot Nothing Then
    entry.DialMode = RasDialMode.DialAll
    Dim subentry As New RasSubEntry
    subentry.PhoneNumber = "555-111-2345"
    subentry.Device = RasDevice.GetDeviceBy(oname("Internal Modem #2")
    entry.SubEntries.Add(subentry)
    pbk.Entries.Add(entry)
End If
```
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
DotRas.RasSubEntry
See Also

RasSubEntry Members
DotRas Namespace

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The **RasSubEntry** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasSubEntry</td>
<td>Initializes a new instance of the RasSubEntry class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clone</td>
<td>Creates a copy of this RasSubEntry.</td>
</tr>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
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<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the Type of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes the subentry from the phone book.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
<tr>
<td>Update</td>
<td>Updates the subentry.</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlternatePhoneNumbers</td>
<td>Gets a collection of alternate phone numbers that are dialed in the order listed if the primary number fails.</td>
</tr>
<tr>
<td>Device</td>
<td>Gets or sets the remote access device.</td>
</tr>
<tr>
<td>Owner</td>
<td>Gets the owner of the subentry.</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Gets or sets the phone number.</td>
</tr>
</tbody>
</table>
See Also

RasSubEntry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasSubEntry Constructor

RasSubEntry Class  See Also  Send Feedback

Initializes a new instance of the RasSubEntry class.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasSubEntry()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: RasSubEntry()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; RasSubEntry</code></td>
</tr>
</tbody>
</table>
See Also

- RasSubEntry Class
- RasSubEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasSubEntry** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>Creates a copy of this RasSubEntry.</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
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<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
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<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
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<tr>
<td><strong>GetType</strong></td>
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</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Remove</strong></td>
<td>Removes the subentry from the phone book.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>Update</strong></td>
<td>Updates the subentry.</td>
</tr>
</tbody>
</table>
See Also

RasSubEntry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasSubEntry.Clone Method

Creates a copy of this RasSubEntry.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public Object Clone()
```

### Visual Basic

```vbnet
Public Function Clone As Object
```

### Visual C++

```cpp
public:
virtual Object^ Clone() sealed
```

### F#

```fsharp
abstract Clone : unit -> Object
override Clone : unit -> Object
```

## Return Value

Type: `Object`

A new `RasSubEntry` object.

## Implements

`ICloneable.Clone()`
See Also

- RasSubEntry Class
- RasSubEntry Members
- DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasSubEntry.Remove Method

Removes the subentry from the phone book.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public bool Remove()
```

**Visual Basic**

```vbnet
Public Function Remove As Boolean
```

**Visual C++**

```cpp
public:
bool Remove()
```

**F#**

```fsharp
member Remove : unit -> bool
```

## Return Value

Type: [Boolean](#)

- **true** if the operation was successful, otherwise **false**.
See Also

RasSubEntry Class
RasSubEntry Members
DotRas Namespace

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Updates the subentry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public bool Update()
```

Visual Basic

```vbnet
Public Function Update As Boolean
```

Visual C++

```cpp
public:
bool Update()
```

F#

```fsharp
member Update : unit -> bool
```

Return Value

Type: [Boolean](#)

`true` if the operation was successful, otherwise `false`. 
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The collection is not associated with a phone book.</td>
</tr>
</tbody>
</table>
See Also

RasSubEntry Class
RasSubEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasSubEntry** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlternatePhoneNumbers</td>
<td>Gets a collection of alternate phone numbers that are dialed in the order listed if the primary number fails.</td>
</tr>
<tr>
<td>Device</td>
<td>Gets or sets the remote access device.</td>
</tr>
<tr>
<td>Owner</td>
<td>Gets the owner of the subentry.</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Gets or sets the phone number.</td>
</tr>
</tbody>
</table>
See Also

RasSubEntry Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasSubEntry.AlternatePhoneNumbers Property

Gets a collection of alternate phone numbers that are dialed in the order listed if the primary number fails.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public Collection&lt;string&gt; AlternatePhoneNumbers { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property AlternatePhoneNumbers As Collection&lt;string&gt;</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property Collection&lt;String^&gt;^ AlternatePhoneNumbers : Collection&lt;String^&gt;^ get ();</td>
</tr>
<tr>
<td>F#</td>
<td>member AlternatePhoneNumbers : Collection&lt;string&gt; with</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Collection](String)
See Also

RasSubEntry Class
RasSubEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasSubEntry.Device Property

Gets or sets the remote access device.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public  RasDevice  Device  {  get;  set;  }</code></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public  Property  Device  As  RasDevice  
Get  
Set` |
| **Visual C++** | `public:  
property  RasDevice^  Device  {  
   RasDevice^  get  ();  
   void  set  (RasDevice^  value);  
}  

**F#** | `member  Device :  RasDevice  with  get,  set` |

### Property Value

Type: [RasDevice](#)
Remarks

To retrieve a list of available devices, use the `GetDevices()` method.
See Also

RasSubEntry Class
RasSubEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets the owner of the subentry.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public RasEntry Owner { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property Owner As RasEntry Get</td>
</tr>
</tbody>
</table>
| **Visual C++** | public:
  property RasEntry^ Owner {
    RasEntry^ get ()
  }
| **F#**     | member Owner : RasEntry with get                                      |

### Property Value

Type: **RasEntry**
See Also

RasSubEntry Class
RasSubEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasSubEntry.PhoneNumber Property

Gets or sets the phone number.

**Namespace:** [DotRas](#)

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**  | ```csharp
public string PhoneNumber { get; set; }
``` |
| **Visual Basic** | ```vb
Public Property PhoneNumber As String
    Get
    Set
``` |
| **Visual C++** | ```cpp
public:
    property String^ PhoneNumber {
        String^ get ();
        void set (String^ value);
    }
``` |
| **F#**   | ```fsharp
member PhoneNumber : string with get, set
``` |

### Property Value
Type: String
See Also

RasSubEntry Class
RasSubEntry Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
Represents a strongly-typed collection of `RasSubEntry` objects. This class cannot be inherited.

**Namespace:** DotRas  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public sealed class RasSubEntryCollection : RasOwnedCollection</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public NotInheritable Class RasSubEntryCollection Inherits RasOwnedCollection(Of RasEntry, RasSubEntry)</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public ref class RasSubEntryCollection sealed : public</td>
</tr>
<tr>
<td>F#</td>
<td><img src="https://raw.githubusercontent.com/..." alt="F# Code" /></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
DotRas.Design.RasCollection(RasSubEntry)
DotRas.Design.RasOwnedCollection(RasEntry, RasSubEntry)
DotRas.RasSubEntryCollection
See Also

RasSubEntryCollection Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasSubEntryCollection** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Add</strong></td>
<td>Adds the item to the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Clear</strong></td>
<td>Clears the items in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Contains</strong></td>
<td>Determines whether the phone book contains the entry specified. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>CopyTo</strong></td>
<td>Copies the entries to a <strong>Array</strong> starting at a particular index. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <strong>Object</strong> is equal to the current <strong>Object</strong>. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetEnumerator</strong></td>
<td>Returns an enumerator that iterates through the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <strong>Type</strong> of the current instance. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>IndexOf</strong></td>
<td>Searches for the specified item within the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance.</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td>RemoveAt</td>
<td>Removes the entry at the specified index in the collection.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object.</td>
</tr>
</tbody>
</table>
## Properties

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<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Count</strong></td>
<td>Gets the number of entries contained in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>IsReadOnly</strong></td>
<td>Gets a value indicating whether the collection is read-only. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td><strong>Item</strong></td>
<td>Gets an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasSubEntryCollection Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasSubEntryCollection** type exposes the following members.
## Methods

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<th>Description</th>
</tr>
</thead>
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<td>Clears the items in the collection. (Inherited from <a href="https://example.com">RasCollection(TObject)</a>.)</td>
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</tr>
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</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://example.com">Object</a> is equal to the current <a href="https://example.com">Object</a>. (Inherited from <a href="https://example.com">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetEnumerator</strong></td>
<td>Returns an enumerator that iterates through the collection. (Inherited from <a href="https://example.com">RasCollection(TObject)</a>.)</td>
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<tr>
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<td>Serves as a hash function for a particular type. (Inherited from <a href="https://example.com">Object</a>.)</td>
</tr>
<tr>
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<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from <a href="https://example.com">MarshalByRefObject</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://example.com">Type</a> of the current instance. (Inherited from <a href="https://example.com">Object</a>.)</td>
</tr>
<tr>
<td><strong>IndexOf</strong></td>
<td>Searches for the specified item within the collection. (Inherited from <a href="https://example.com">RasCollection(TObject)</a>.)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
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</tr>
<tr>
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<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td>RemoveAt</td>
<td>Removes the entry at the specified index in the collection.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object.</td>
</tr>
</tbody>
</table>
See Also

RasSubEntryCollection Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasSubEntryCollection` type exposes the following members.
# Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>Gets the number of entries contained in the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>IsReadOnly</td>
<td>Gets a value indicating whether the collection is read-only. (Inherited from RasCollection(TObject).)</td>
</tr>
<tr>
<td>Item</td>
<td>Gets an entry from the collection. (Inherited from RasCollection(TObject).)</td>
</tr>
</tbody>
</table>
See Also

RasSubEntryCollection Class
DotRas Namespace

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RasUpdateCredential Enumeration

Defines where user credentials can be saved for a phone book.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public enum RasUpdateCredential</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Enumeration RasUpdateCredential</td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td>public enum class RasUpdateCredential</td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td>type RasUpdateCredential</td>
<td></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>0</td>
<td>No credentials should be updated.</td>
</tr>
<tr>
<td>User</td>
<td>1</td>
<td>Update the credentials in the current user profile.</td>
</tr>
</tbody>
</table>
| AllUsers    | 2     | Update the credentials in the all users profile, if available. **Windows XP or later:** This value is supported.
See Also

DotRas Namespace

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RasVpnStrategy Enumeration

Defines the VPN strategies.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public enum RasVpnStrategy</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public Enumeration RasVpnStrategy</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public enum class RasVpnStrategy</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>type RasVpnStrategy</code></td>
<td></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>0</td>
<td>Dials PPTP first. If PPTP fails, L2TP is attempted.</td>
</tr>
<tr>
<td>PptpOnly</td>
<td>1</td>
<td>Dial PPTP only.</td>
</tr>
<tr>
<td>PptpFirst</td>
<td>2</td>
<td>Always dial PPTP first.</td>
</tr>
<tr>
<td>L2tpOnly</td>
<td>3</td>
<td>Dial L2TP only.</td>
</tr>
<tr>
<td>L2tpFirst</td>
<td>4</td>
<td>Always dial L2TP first.</td>
</tr>
<tr>
<td>SstpOnly</td>
<td>5</td>
<td>Dial SSTP only.</td>
</tr>
<tr>
<td>Windows Vista or later: This value is supported.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SstpFirst</td>
<td>6</td>
<td>Always dial SSTP first.</td>
</tr>
<tr>
<td>Windows Vista or later: This value is supported.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IkeV2Only</td>
<td>7</td>
<td>Dial IKEv2 only.</td>
</tr>
<tr>
<td>Windows 7 or later: This value is supported.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IkeV2First</td>
<td>8</td>
<td>Dial IKEv2 first.</td>
</tr>
<tr>
<td>Windows 7 or later: This value is supported.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
See Also

DotRas Namespace
StateChangedEventArgs Class

Provides data for the **StateChanged** event.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public class StateChangedEventArgs : EventArgs</code></td>
<td></td>
</tr>
</tbody>
</table>
| **Visual Basic** | `Public Class StateChangedEventArgs  
Inherits EventArgs` |  |
| **Visual C++** | `public ref class StateChangedEventArgs : public EventArgs` |  |
| **F#**   | `type StateChangedEventArgs =  
class  
inherit EventArgs  
end` |  |
Inheritance Hierarchy

System.Object
System.EventArgs
DotRas.StateChangedEventArgs
See Also

StateChangedEventArgs Members
DotRas Namespace

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StateChangedEventArgs Members

StateChangedEventArgs Class  Methods  Properties  See Also  Send Feedback

The StateChangedEventArgs type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection.   (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="#">Object</a>. (Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CallbackId</td>
<td>Gets the application defined callback id.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets the error message for the ErrorCode that occurred.</td>
</tr>
<tr>
<td>ExtendedErrorCode</td>
<td>Gets the extended error code (if any) that occurred.</td>
</tr>
<tr>
<td>Handle</td>
<td>Gets the handle of the connection.</td>
</tr>
<tr>
<td>State</td>
<td>Gets the state the remote access connection is about to enter.</td>
</tr>
<tr>
<td>SubEntryId</td>
<td>Gets the one-based index for the phone book entry associated with this connection.</td>
</tr>
</tbody>
</table>
See Also

StateChangedEventArgs Class
DotRas Namespace

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StateChangedEventArgs Methods

StateChangedEventArgs Class See Also Send Feedback

The **StateChangedEventArgs** type exposes the following members.
## Methods

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<tr>
<td><strong>GetHashCode</strong></td>
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</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>Creates a shallow copy of the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
</tbody>
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See Also

StateChangedEventArgs Class
DotRas Namespace

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The `StateChangedEventArgs` type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CallbackId</td>
<td>Gets the application defined callback id.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the error code (if any) that occurred.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets the error message for the <a href="#">ErrorCode</a> that occurred.</td>
</tr>
<tr>
<td>ExtendedErrorCode</td>
<td>Gets the extended error code (if any) that occurred.</td>
</tr>
<tr>
<td>Handle</td>
<td>Gets the handle of the connection.</td>
</tr>
<tr>
<td>State</td>
<td>Gets the state the remote access connection is about to enter.</td>
</tr>
<tr>
<td>SubEntryId</td>
<td>Gets the one-based index for the phone book entry associated with this connection.</td>
</tr>
</tbody>
</table>
See Also

StateChangedEventArgs Class
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
StateChangedEventArgs.CallbackId Property

Gets the application defined callback id.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **C#**   | ```
public IntPtr CallbackId { get; }
``` |
| **Visual Basic** | ```
Public ReadOnly Property CallbackId As IntPtr
Get
``` |
| **Visual C++** | ```
public:
property IntPtr CallbackId {
    IntPtr get ();
}
``` |
| **F#**    | ```
member CallbackId : IntPtr with get
``` |

### Property Value

Type: **IntPtr**
See Also

StateChangedEventArgs Class
StateChangedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
StateChangedEventArgs.ErrorCode Property

Gets the error code (if any) that occurred.

Namespace: DotRas

Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public int ErrorCode { get; }</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property ErrorCode As Integer Get</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: property int ErrorCode { int get (); }</td>
</tr>
<tr>
<td>F#</td>
<td>member ErrorCode : int with get</td>
</tr>
</tbody>
</table>

### Property Value
Type: **Int32**
See Also

StateChangedEventArgs Class
StateChangedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
StateChangedEventArgs.ErrorMessage Property

Gets the error message for the ErrorCode that occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

**C#**

```csharp
public string ErrorMessage { get; }
```

**Visual Basic**

```vbnet
Public ReadOnly Property ErrorMessage As String
Get
```

**Visual C++**

```cpp
public:
property String^ ErrorMessage {
    String^ get ();
}
```

**F#**

```fsharp
member ErrorMessage : string with get
```

## Property Value

Type: [String](#)
See Also

StateChangedEventArgs Class
StateChangedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
StateChangedEventArgs.ExtendedErrorCode Property

Gets the extended error code (if any) that occurred.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public int ExtendedErrorCode { get; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property ExtendedErrorCode As Integer Get</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property int ExtendedErrorCode { int get (); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member ExtendedErrorCode : int with get</td>
</tr>
</tbody>
</table>

### Property Value

Type: **Int32**
See Also

StateChangedEventArgs Class
StateChangedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
StateChangedEventArgs.Handle Property

Gets the handle of the connection.

Namespace: DotRas
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasHandle Handle { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property Handle As RasHandle Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasHandle^ Handle { RasHandle^ get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Handle : RasHandle with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasHandle](#)
See Also

StateChangedEventArgs Class
StateChangedEventArgs Members
DotRas Namespace
StateChangedEventArgs.State Property

Gets the state the remote access connection is about to enter.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public RasConnectionState State { get; }</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public ReadOnly Property State As RasConnectionState Get</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: property RasConnectionState State { RasConnectionState get (); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member State : RasConnectionState with get</code></td>
</tr>
</tbody>
</table>

### Property Value

Type: [RasConnectionState](#)
See Also

StateChangedEventArgs Class
StateChangedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
StateChangedEventArgs/SubEntryId Property

Gets the one-based index for the phone book entry associated with this connection.

**Namespace:** DotRas

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public int SubEntryId { get; }</td>
<td></td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property SubEntryId As Integer Get</td>
<td></td>
</tr>
</tbody>
</table>
| Visual C++ | public:
property int SubEntryId {
    int get ();
} |  |
| F#         | member SubEntryId : int with get |  |

## Property Value

Type: **Int32**
See Also

StateChangedEventArgs Class
StateChangedEventArgs Members
DotRas Namespace

Copyright (c) Jeff Winn. All rights reserved.
The DotRas.Design namespace contains base classes that define commonly-used value and reference data types, events and event handlers, interfaces, and attributes.
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasCollection(TObject)</td>
<td>Provides the abstract base class for a remote-capable generic collection. This class must be inherited.</td>
</tr>
<tr>
<td>RasCommonDialog</td>
<td>Specifies the base class used for displaying remote access service (RAS) dialog boxes on the screen. This class must be inherited.</td>
</tr>
<tr>
<td>RasComponent</td>
<td>Provides the base implementation for remote access service (RAS) components. This class must be inherited.</td>
</tr>
<tr>
<td>RasOwnedCollection(TOwner, TObject)</td>
<td>Provides the abstract base class for a remote-capable collection whose objects are owned by other objects. This class must be inherited.</td>
</tr>
</tbody>
</table>

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(*Object*) Class

Provides the abstract base class for a remote-capable generic collection. This class must be inherited.

**Namespace:** DotRas.Design  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public abstract class RasCollection&lt;TObject&gt; : MarshalByRefObject, ICollection&lt;TObject&gt;, IEnumerable&lt;TObject&gt;, IEnumerable&lt;TObject&gt; where TObject : class</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public MustInherit Class RasCollection(Of TObject As Class) Inherits MarshalByRefObject Implements ICollection(Of TObject), IEnumerable</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>generic&lt;typename TObject&gt; where TObject : ref class public ref class RasCollection abstract : public MarshalByRefObject ICollection&lt;TObject&gt;, IEnumerable&lt;TObject&gt;, IEnumerable&lt;TObject&gt;</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>[&lt;AbstractClassAttribute&gt;] type RasCollection&lt;'TObject&gt; when 'TObject : not struct class inherit MarshalByRefObject interface ICollection&lt;'TObject&gt; interface IEnumerable&lt;'TObject&gt; interface IEnumerable end</td>
</tr>
</tbody>
</table>
Type Parameters

 TObject
The type of object contained in the collection.
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
DotRas.Design.RasCollection(TObject)
   DotRas.Design.RasOwnedCollection(TOwner, TObject)
   DotRas.RasAutoDialAddressCollection
See Also

RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasCollection(TObject)` type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasCollection(TObject)</td>
<td>Initializes a new instance of the RasCollection(TObject) class.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Add</strong></td>
<td>Adds the item to the collection.</td>
</tr>
<tr>
<td><strong>Clear</strong></td>
<td>Clears the items in the collection.</td>
</tr>
<tr>
<td><strong>ClearItems</strong></td>
<td>Clears the items in the collection.</td>
</tr>
<tr>
<td><strong>Contains</strong></td>
<td>Determines whether the phone book contains the entry specified.</td>
</tr>
<tr>
<td><strong>CopyTo</strong></td>
<td>Copies the entries to a <a href="https://docs.microsoft.com/en-us/dotnet/api/system.array">Array</a> starting at a particular index.</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.runtime.interopservices.marshalbyrefobject">MarshalByRefObject</a>.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a> is equal to the current <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetEnumerator</strong></td>
<td>Returns an enumerator that iterates through the collection.</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.object">Object</a>.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from <a href="https://docs.microsoft.com/en-us/dotnet/api/system.runtime.interopservices.marshalbyrefobject">MarshalByRefObject</a>.)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <a href="https://docs.microsoft.com/en-us/dotnet/api/system.type">Type</a> of the current instance.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IndexOf</td>
<td>Searches for the specified item within the collection.</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>InsertItem</td>
<td>Inserts the item at the index specified.</td>
</tr>
<tr>
<td>MemberwiseClone()</td>
<td>Creates a shallow copy of the current Object.  (Inherited from Object.)</td>
</tr>
<tr>
<td>MemberwiseClone(Boolean)</td>
<td>Creates a shallow copy of the current MarshalByRefObject object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td>RemoveAt</td>
<td>Removes the entry at the specified index in the collection.</td>
</tr>
<tr>
<td>RemoveItem</td>
<td>Removes the item at the index specified.</td>
</tr>
<tr>
<td>ToString</td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>Gets the number of entries contained in the collection.</td>
</tr>
<tr>
<td>IsInitializing</td>
<td>Gets or sets a value indicating whether the collection is initializing.</td>
</tr>
<tr>
<td>IsReadOnly</td>
<td>Gets a value indicating whether the collection is read-only.</td>
</tr>
<tr>
<td>Item</td>
<td>Gets an entry from the collection.</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject) Constructor

Initialized a new instance of the RasCollection(TObject) class.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>protected RasCollection()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Protected Sub New</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>protected: RasCollection()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>new : unit -&gt; RasCollection</code></td>
</tr>
</tbody>
</table>
See Also

- RasCollection(TObject) Class
- RasCollection(TObject) Members
- DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCollection(TObject)** type exposes the following members.
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Adds the item to the collection.</td>
</tr>
<tr>
<td>Clear</td>
<td>Clears the items in the collection.</td>
</tr>
<tr>
<td>ClearItems</td>
<td>Clears the items in the collection.</td>
</tr>
<tr>
<td>Contains</td>
<td>Determines whether the phone book contains the entry specified.</td>
</tr>
<tr>
<td>CopyTo</td>
<td>Copies the entries to a <code>Array</code> starting at a particular index.</td>
</tr>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
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<tr>
<td>Finalize</td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <code>Object</code>.)</td>
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<tr>
<td>GetEnumerator</td>
<td>Returns an enumerator that iterates through the collection.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the <code>Type</code> of the current instance.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>IndexOf</strong></td>
<td>Searches for the specified item within the collection.</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>InsertItem</strong></td>
<td>Inserts the item at the index specified.</td>
</tr>
<tr>
<td><strong>MemberwiseClone()</strong></td>
<td>Creates a shallow copy of the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone(Boolean)</strong></td>
<td>Creates a shallow copy of the current MarshalByRefObject object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Remove</strong></td>
<td>Removes an entry from the collection.</td>
</tr>
<tr>
<td><strong>RemoveAt</strong></td>
<td>Removes the entry at the specified index in the collection.</td>
</tr>
<tr>
<td><strong>RemoveItem</strong></td>
<td>Removes the item at the index specified.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class  
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).Add Method

Adds the item to the collection.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#**  | public void Add(
|          |     TObject item
|          | ) |
| **Visual Basic** | Public Sub Add (item As TObject) |
| **Visual C++** | public: virtual void Add(TObject item) sealed |
| **F#**    | abstract Add : item : 'TObject -> unit |
|           | override Add : item : 'TObject -> unit |

### Parameters

*item*

Type: **TObject**

An *TObject* to add. This argument cannot be a null (**Nothing** in Visual Basic).

### Implements

**ICollection(T).Add(T)**
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>item</code> is a null reference (<strong>Nothing</strong> in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).Clear Method

Clears the items in the collection.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

public void Clear()

Visual Basic

Public Sub Clear

Visual C++

public:
virtual void Clear() sealed

F#

abstract Clear : unit -> unit
override Clear : unit -> unit

Implements

ICollection(T).Clear()
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).ClearItems Method

Clears the items in the collection.

**Namespace:** DotRas.Design  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>protected virtual void ClearItems()</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Protected Overridable Sub ClearItems</td>
</tr>
</tbody>
</table>
| **Visual C++** | protected:
|             | virtual void ClearItems() |
| **F#**     | abstract ClearItems : unit -> unit
|            | override ClearItems : unit -> unit |
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
Determines whether the phone book contains the entry specified.

**Namespace:** DotRas.Design  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public bool Contains(TObject item)</td>
</tr>
<tr>
<td>Visual Basic</td>
<td>Public Function Contains (item As TObject) As Boolean</td>
</tr>
<tr>
<td>Visual C++</td>
<td>public: virtual bool Contains(TObject item) sealed</td>
</tr>
<tr>
<td>F#</td>
<td>abstract Contains : item : 'TObject -&gt; bool override Contains : item : 'TObject -&gt; bool</td>
</tr>
</tbody>
</table>

### Parameters

**item**
Type: TObject
Required. The object to locate within the collection.

### Return Value
Type: Boolean
true if the item was found, otherwise false.

**Implements**
ICollection(T).Contains(T)
<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>System.ArgumentNullException</td>
<td>item is a null reference (Nothing in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).CopyTo Method

Copies the entries to a Array starting at a particular index.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **C#** | ```
public void CopyTo(
    TObject[] array,
    int arrayIndex
)
``` |
| **Visual Basic** | ```
Public Sub CopyTo ( 
    array As TObject(),
    arrayIndex As Integer
)
``` |
| **Visual C++** | ```
public:
virtual void CopyTo(
    array<TObject>* array,
    int arrayIndex
)
``` |
| **F#** | ```
abstract CopyTo :
    array : 'TObject[] *
    arrayIndex : int -> unit
override CopyTo :
    array : 'TObject[] *
    arrayIndex : int -> unit
``` |

### Parameters

- **array**
  - Type: `TObject[]`
The one-dimensional `Array` that is the destination of the elements copied from collection. The `Array` must have zero-based indexing.

`arrayIndex`
Type: `System.Int32`
The zero-based index in `array` at which copying begins.

**Implements**
`ICollection<T>.CopyTo(T[], Int32)`
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>array</code> is a null reference (Nothing in Visual Basic).</td>
</tr>
<tr>
<td><code>System.ArgumentOutOfRangeException</code></td>
<td><code>arrayIndex</code> is less than zero.</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace
RasCollection(TObject).GetEnumerator Method

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public IEnumerator<TObject> GetEnumerator()
```

**Visual Basic**

```vbnet
Public Function GetEnumerator As IEnumerator(Of TObject)
```

**Visual C++**

```cpp
public:
virtual IEnumerator<TObject> GetEnumerator() sealed
```

**F#**

```fsharp
abstract GetEnumerator : unit -> IEnumerator<'TObject>
```

### Return Value

Type: `IEnumerator<TObject>`

An `IEnumerator<TObject>` to iterate through the collection.

### Implements

`IEnumerable<T>.GetEnumerator()`
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).IndexOf Method

Searches for the specified item within the collection.

**Namespace:** DotRas.Design

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public int IndexOf( TObject item</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function IndexOf ( item As TObject</td>
</tr>
<tr>
<td>) As Integer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visual C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: int IndexOf( TObject item</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>member IndexOf : item : 'TObject -&gt; int</td>
</tr>
</tbody>
</table>

### Parameters

*item*

Type: TObject

Required. The item to locate.

### Return Value

Type: Int32

The zero-based index of the item if found; otherwise, -1.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>item</code> is a null reference (Nothing in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
Inserts the item at the index specified.

**Namespace:** DotRas.Design  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
protected virtual void InsertItem(
    int index,
    TObject item
)
```

### Visual Basic

```vbnet
Protected Overridable Sub InsertItem (  
    index As Integer,  
    item As TObject  
)
```

### Visual C++

```cpp
protected:
virtual void InsertItem(
    int index,  
    TObject item  
)
```

### F#

```fsharp
abstract InsertItem :  
    index : int  
    item : 'TObject -> unit
override InsertItem :  
    index : int  
    item : 'TObject -> unit
```

### Parameters

*index*

Type: System.Int32
The zero-based index at which the item will be inserted.

*item*
Type: TObject
An TObject to insert.
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).Remove Method

Remove an entry from the collection.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool Remove(TObject item)
```

### Visual Basic

```vbnet
Public Function Remove(item As TObject) As Boolean
```

### Visual C++

```cpp
public:
virtual bool Remove(TObject item) sealed
```

### F#

```fsharp
abstract Remove : item : 'TObject -> bool
override Remove : item : 'TObject -> bool
```

## Parameters

- **item**  
  Type: **TObject**  
  Required. The item to remove.

## Return Value

- Type: **Boolean**
true if the item was removed successfully, otherwise false.

**Implements**

`ICollection<T>.Remove(T)`
### Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>item</code> is a null reference (<code>Nothing</code> in Visual Basic).</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).RemoveAt Method

Removes the entry at the specified index in the collection.

**Namespace:** DotRas.Design

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public void RemoveAt(int index)</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub RemoveAt (index As Integer)</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>public: void RemoveAt(int index)</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member RemoveAt : index : int -&gt; unit</code></td>
</tr>
</tbody>
</table>

### Parameters

- **index**
  - Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)
  - The zero-based index of the entry to remove.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>System.InvalidOperationException</code></td>
<td>The phone book of the entry collection has not been opened.</td>
</tr>
<tr>
<td><code>System.UnauthorizedAccessException</code></td>
<td>The caller does not have the required permission to perform the action requested.</td>
</tr>
</tbody>
</table>
See Also

- RasCollection(TObject) Class
- RasCollection(TObject) Members
- DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).RemoveItem Method

Removes the item at the index specified.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>protected virtual void RemoveItem(int index)</code></td>
</tr>
<tr>
<td>Visual Basic</td>
<td><code>Protected Overridable Sub RemoveItem (index As Integer)</code></td>
</tr>
<tr>
<td>Visual C++</td>
<td><code>protected: virtual void RemoveItem(int index)</code></td>
</tr>
</tbody>
</table>
| F#         | `abstract RemoveItem : index : int -> unit`  
              `override RemoveItem : index : int -> unit` |

### Parameters

- **index**
  
  Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)

  The zero-based index of the item to remove.
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The `RasCollection(TObject)` type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Count</strong></td>
<td>Gets the number of entries contained in the collection.</td>
</tr>
<tr>
<td><strong>IsInitializing</strong></td>
<td>Gets or sets a value indicating whether the collection is initializing.</td>
</tr>
<tr>
<td><strong>IsReadOnly</strong></td>
<td>Gets a value indicating whether the collection is read-only.</td>
</tr>
<tr>
<td><strong>Item</strong></td>
<td>Gets an entry from the collection.</td>
</tr>
</tbody>
</table>
See Also

RasCollection(TObject) Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).Count Property

Gets the number of entries contained in the collection.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

#### C#

```csharp
public int Count { get; }
```

#### Visual Basic

```vbnet
Public ReadOnly Property Count As Integer
    Get
```

#### Visual C++

```cpp
public:
    virtual property int Count { 
        int get () sealed;
    }
```

#### F#

```fsharp
abstract Count : int with get
override Count : int with get
```

### Property Value

Type: `[Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)

### Implements

- `[ICollection<T>.Count](https://docs.microsoft.com/en-us/dotnet/api/system.collections.ICollection-1.Count)" role="external-link"`)
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace
RasCollection( TObject ).IsInitializing Property

Gets or sets a value indicating whether the collection is initializing.

**Namespace:** DotRas.Design

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>protected bool IsInitializing { get; set; }</code></td>
</tr>
</tbody>
</table>
| Visual Basic | `Protected Property IsInitializing As Boolean
Get
Set`                  |
| Visual C++ | `protected:
property bool IsInitializing {
    bool get ();
    void set (bool value);
} `                   |
| F#         | `member IsInitializing : bool with get, set`                        |

### Property Value

Type: [Boolean](#)
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
Gets a value indicating whether the collection is read-only.

**Namespace:**  [DotRas.Design](#)

**Assembly:**  DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public bool IsReadOnly { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Property IsReadOnly As Boolean
Get
```

### Visual C++

```cpp
public:
virtual property bool IsReadOnly {
    bool get () sealed;
}
```

### F#

```fsharp
abstract IsReadOnly : bool with get
override IsReadOnly : bool with get
```

## Property Value

Type: [Boolean](#)

## Implements

[ICollection(T).IsReadOnly](#)
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCollection(TObject).Item Property

Gets an entry from the collection.

**Namespace:** DotRas.Design

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public TObject this[int index] { get; }
```

### Visual Basic

```vbnet
Public ReadOnly Default Property Item (index As Integer) As TObject
    Get
```

### Visual C++

```cpp
public:
    property TObject default [int index] {
        TObject get (int index);
    }
```

### F#

```fsharp
member Item : 'TObject with get
```

## Parameters

`index`

Type: `System.Int32`

The zero-based index of the entry to get.

## Return Value

Type: `TObject`

An `TObject` object.
See Also

RasCollection(TObject) Class
RasCollection(TObject) Members
DotRas.Design Namespace

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RasCommonDialog Class

Specifies the base class used for displaying remote access service (RAS) dialog boxes on the screen. This class must be inherited.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
<th><strong>Visual Basic</strong></th>
<th><strong>Visual C++</strong></th>
<th><strong>F#</strong></th>
</tr>
</thead>
</table>
| `public abstract class RasCommonDialog : CommonDialog` | `Public MustInherit Class RasCommonDialog Inherits CommonDialog` | `public ref class RasCommonDialog abstract : public CommonDialog` | `[<AbstractClassAttribute>] type RasCommonDialog =
  class
    inherit CommonDialog
  end` |
Inheritance Hierarchy

System.Object
System.MarshalByRefObject
System.ComponentModel.Component
DotRas.Design.RasCommonDialog
  DotRas.RasDialog
  DotRas.RasEntryDialog
  DotRas.RasPhoneBookDialog
See Also

RasCommonDialog Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The RasCommonDialog type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasCommonDialog</td>
<td>Initializes a new instance of the RasCommonDialog class.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>Dispose()</strong></td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>Dispose(Boolean)</strong></td>
<td>Releases the unmanaged resources used by the Component and optionally releases the managed resources. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Releases unmanaged resources and performs other cleanup operations before the Component is reclaimed by garbage collection. (Inherited from Component.)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td><strong>GetService</strong></td>
<td>Returns an object that represents a service provided by the Component.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GetType</td>
<td>Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td>HookProc</td>
<td>Defines the common dialog box hook procedure that is overridden to add specific functionality to a common dialog box. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td>MemberwiseClone()</td>
<td>Creates a shallow copy of the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td>MemberwiseClone(Boolean)</td>
<td>Creates a shallow copy of the current <code>MarshalByRefObject</code> object. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td>OnError</td>
<td>Raises the <code>Error</code> event.</td>
</tr>
<tr>
<td>OnHelpRequest</td>
<td>Raises the <code>HelpRequest</code> event. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
<tr>
<td>OwnerWndProc</td>
<td>Defines the owner window procedure that is overridden to add specific functionality to a common dialog box. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets all <code>RasCommonDialog</code> properties to their default values. (Overrides <code>CommonDialog.Reset()</code>.)</td>
</tr>
<tr>
<td>RunDialog</td>
<td>When overridden in a derived class, specifies a common dialog box.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>ShowDialog()</code></td>
<td>Runs a common dialog box with a default owner.</td>
</tr>
<tr>
<td><code>ShowDialog(IWin32Window)</code></td>
<td>Runs a common dialog box with the specified owner.</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a <a href="#">String</a> containing the name of the <a href="#">Component</a>, if any. This method should not be</td>
</tr>
<tr>
<td></td>
<td>overridden.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanRaiseEvents</td>
<td>Gets a value indicating whether the component can raise an event. (Inherited from Component.)</td>
</tr>
<tr>
<td>Container</td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>DesignMode</td>
<td>Gets a value that indicates whether the Component is currently in design mode. (Inherited from Component.)</td>
</tr>
<tr>
<td>Events</td>
<td>Gets the list of event handlers that are attached to this Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Location</td>
<td>Gets or sets the coordinates of the upper-left corner of the dialog box.</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Tag</td>
<td>Gets or sets an object that contains data about the control. (Inherited from CommonDialog.)</td>
</tr>
</tbody>
</table>
### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disposed</strong></td>
<td>Occurs when the component is disposed by a call to the Dispose() method.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from Component.)</td>
</tr>
<tr>
<td><strong>Error</strong></td>
<td>Occurs when the dialog has encountered an error.</td>
</tr>
<tr>
<td><strong>HelpRequest</strong></td>
<td>Occurs when the user clicks the Help button on a common dialog box.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from CommonDialog.)</td>
</tr>
</tbody>
</table>
See Also

RasCommonDialog Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCommonDialog Constructor

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>protected RasCommonDialog()</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Protected Sub New</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>protected: RasCommonDialog()</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>new : unit -&gt; RasCommonDialog</code></td>
<td></td>
</tr>
</tbody>
</table>
See Also

RasCommonDialog Class
RasCommonDialog Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCommonDialog** type exposes the following members.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Inherited from</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
<td>Component</td>
</tr>
<tr>
<td>Dispose()</td>
<td>Releases all resources used by the Component. (Inherited from Component.)</td>
<td>Component</td>
</tr>
<tr>
<td>Dispose(Boolean)</td>
<td>Releases the unmanaged resources used by the Component and optionally releases the managed resources. (Inherited from Component.)</td>
<td>Component</td>
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<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
<td>Component</td>
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<tr>
<td>Finalize</td>
<td>Releases unmanaged resources and performs other cleanup operations before the Component is reclaimed by garbage collection. (Inherited from Component.)</td>
<td>Component</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
<td>Object</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
<td>Component</td>
</tr>
<tr>
<td>GetService</td>
<td>Returns an object that represents a service provided by the Component.</td>
<td>Component</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the <strong>Type</strong> of the current instance. (Inherited from <strong>Object</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>HookProc</strong></td>
<td>Defines the common dialog box hook procedure that is overridden to add specific functionality to a common dialog box. (Inherited from <strong>CommonDialog</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from <strong>MarshalByRefObject</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>MemberwiseClone()</strong></td>
<td>Creates a shallow copy of the current <strong>Object</strong>. (Inherited from <strong>Object</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>MemberwiseClone(Boolean)</strong></td>
<td>Creates a shallow copy of the current <strong>MarshalByRefObject</strong> object. (Inherited from <strong>MarshalByRefObject</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>OnError</strong></td>
<td>Raises the <strong>Error</strong> event.</td>
<td></td>
</tr>
<tr>
<td><strong>OnHelpRequest</strong></td>
<td>Raises the <strong>HelpRequest</strong> event. (Inherited from <strong>CommonDialog</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>OwnerWndProc</strong></td>
<td>Defines the owner window procedure that is overridden to add specific functionality to a common dialog box. (Inherited from <strong>CommonDialog</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>Reset</strong></td>
<td>Resets all <strong>RasCommonDialog</strong> properties to their default values. (Overrides <strong>CommonDialog.Reset()</strong>.)</td>
<td></td>
</tr>
<tr>
<td><strong>RunDialog</strong></td>
<td>When overridden in a derived class, specifies a common dialog box.</td>
<td></td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td><strong>ShowDialog()</strong></td>
<td>Runs a common dialog box with a default owner. (Inherited from CommonDialog.)</td>
<td></td>
</tr>
<tr>
<td><strong>ShowDialog(IWin32Window)</strong></td>
<td>Runs a common dialog box with the specified owner. (Inherited from CommonDialog.)</td>
<td></td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a String containing the name of the Component, if any. This method should not be overridden. (Inherited from Component.)</td>
<td></td>
</tr>
</tbody>
</table>
See Also

RasCommonDialog Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCommonDialog.OnError Method

Raises the Error event.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
protected void OnError(
    RasErrorEventArgs e
)
```

### Visual Basic

```vbnet
Protected Sub OnError (  
    e As RasErrorEventArgs  
)
```

### Visual C++

```cpp
protected:
void OnError(
    RasErrorEventArgs^ e
)
```

### F#

```fsharp
member OnError :  
    e : RasErrorEventArgs -> unit
```

## Parameters

### e

Type: `DotRas.RasErrorEventArgs`

An `RasErrorEventArgs` containing event data.
See Also

RasCommonDialog Class
RasCommonDialog Members
DotRas.Design Namespace
RasCommonDialog.Reset Method

Resets all RasCommonDialog properties to their default values.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

**C#**

```csharp
public override void Reset()
```

**Visual Basic**

```vbnet
Public Overrides Sub Reset
```

**Visual C++**

```cpp
public:
virtual void Reset() override
```

**F#**

```fsharp
abstract Reset : unit -> unit
override Reset : unit -> unit
```
See Also

RasCommonDialog Class
RasCommonDialog Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasCommonDialog** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| **CanRaiseEvents** | Gets a value indicating whether the component can raise an event.  
(Inherited from Component.) |
| **Container**   | Gets the.IContainer that contains the Component.  
(Inherited from Component.)         |
| **DesignMode**  | Gets a value that indicates whether the Component is currently in design mode.  
(Inherited from Component.) |
| **Events**      | Gets the list of event handlers that are attached to this Component.  
(Inherited from Component.)          |
| **Location**    | Gets or sets the coordinates of the upper-left corner of the dialog box. |
| **Site**        | Gets or sets the ISite of the Component.  
(Inherited from Component.)               |
| **Tag**         | Gets or sets an object that contains data about the control.  
(Inherited from Component.)         |
See Also

RasCommonDialog Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCommonDialog.Location Property

Gets or sets the coordinates of the upper-left corner of the dialog box.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public Point Location { get; set; }</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Location As Point Get Set</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td>public: property Point Location { Point get (); void set (Point value); }</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>member Location : Point with get, set</td>
</tr>
</tbody>
</table>

### Property Value

Type: [Point](#)
See Also

RasCommonDialog Class
RasCommonDialog Members
DotRas.Design Namespace
The **RasCommonDialog** type exposes the following members.
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🕵️ <strong>Disposed</strong></td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>🕵️ <strong>Error</strong></td>
<td>Occurs when the dialog has encountered an error.</td>
</tr>
<tr>
<td>🕵️ <strong>HelpRequest</strong></td>
<td>Occurs when the user clicks the Help button on a common dialog box. (Inherited from <code>CommonDialog</code>.)</td>
</tr>
</tbody>
</table>
See Also

RasCommonDialog Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasCommonDialog.Error Event

Occurs when the dialog has encountered an error.

**Namespace:** DotRas.Design  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public event EventHandler&lt;RasErrorEventArgs&gt; Error</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Event Error As EventHandler(Of RasErrorEventArgs)</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public: event EventHandler&lt;RasErrorEventArgs^&gt;^ Error { void add (EventHandler&lt;RasErrorEventArgs^&gt;^ value) void remove (EventHandler&lt;RasErrorEventArgs^&gt;^) }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Error : IEvent&lt;EventHandler&lt;RasErrorEventArgs,RasErrorEventArgs&gt;&gt;</code></td>
</tr>
</tbody>
</table>

### Value

Type: `System.EventHandler<RasErrorEventArgs>`
See Also

RasCommonDialog Class
RasCommonDialog Members
DotRas.Design Namespace

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RasComponent Class

Provides the base implementation for remote access service (RAS) components. This class must be inherited.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public abstract class RasComponent : Component</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>`Public MustInherit Class RasComponent</td>
</tr>
<tr>
<td></td>
<td>Inherits Component`</td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td><code>public ref class RasComponent abstract : public Component</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>`[&lt;AbstractClassAttribute&gt;] type RasComponent =</td>
</tr>
<tr>
<td></td>
<td>class</td>
</tr>
<tr>
<td></td>
<td>inherit Component</td>
</tr>
<tr>
<td></td>
<td>end</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
  System.MarshalByRefObject
    System.ComponentModel.Component
      DotRas.Design.RasComponent
        DotRas.RasConnectionWatcher
        DotRas.RasDialer
        DotRas.RasPhoneBook
See Also

RasComponent Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasComponent** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>RasComponent()</code></td>
<td>Initializes a new instance of the <code>RasComponent</code> class.</td>
</tr>
<tr>
<td><code>RasComponent(IContainer)</code></td>
<td>Initializes a new instance of the <code>RasComponent</code> class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateObjRef</td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>Dispose()</td>
<td>Releases all resources used by the Component.</td>
</tr>
<tr>
<td>Dispose(Boolean)</td>
<td>Releases the unmanaged resources used by the Component and optionally releases the managed resources. (Inherited from Component.)</td>
</tr>
<tr>
<td>Equals</td>
<td>Determines whether the specified Object is equal to the current Object. (Inherited from Object.)</td>
</tr>
<tr>
<td>Finalize</td>
<td>Releases unmanaged resources and performs other cleanup operations before the Component is reclaimed by garbage collection. (Inherited from Component.)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Serves as a hash function for a particular type. (Inherited from Object.)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from MarshalByRefObject.)</td>
</tr>
<tr>
<td>GetService</td>
<td>Returns an object that represents a service provided by the Component or by its Container.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>Gets the <code>Type</code> of the current instance.</td>
</tr>
<tr>
<td><code>InitializeComponent</code></td>
<td>Initializes the component.</td>
</tr>
<tr>
<td><code>InitializeLifetimeService</code></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance.</td>
</tr>
<tr>
<td><code>MemberwiseClone()</code></td>
<td>Creates a shallow copy of the current <code>Object</code>.</td>
</tr>
<tr>
<td><code>MemberwiseClone(Boolean)</code></td>
<td>Creates a shallow copy of the current <code>MarshalByRefObject</code> object.</td>
</tr>
<tr>
<td><code>OnError</code></td>
<td>Raises the <code>Error</code> event.</td>
</tr>
<tr>
<td><code>RaiseEvent(TEventArgs)</code></td>
<td>Raises the event specified by <code>method</code> with the event data provided.</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Returns a <code>String</code> containing the name of the <code>Component</code>, if any. This method should not be overridden.</td>
</tr>
</tbody>
</table>

(Inherited from `Component`.)

(Inherited from `Object`.)

(Inherited from `MarshalByRefObject`.)
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanRaiseEvents</td>
<td>Gets a value indicating whether the component can raise an event. (Inherited from Component.)</td>
</tr>
<tr>
<td>Container</td>
<td>Gets the.IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>DesignMode</td>
<td>Gets a value that indicates whether the Component is currently in design mode. (Inherited from Component.)</td>
</tr>
<tr>
<td>Events</td>
<td>Gets the list of event handlers that are attached to this Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>SynchronizingObject</td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component.</td>
</tr>
</tbody>
</table>
## Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️ Disposed</td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>⚠️ Error</td>
<td>Occurs when the component has encountered an error.</td>
</tr>
</tbody>
</table>
See Also

RasComponent Class
DotRas.Design Namespace

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RasComponent Constructor

RasComponent Class  See Also  Send Feedback
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasComponent()</td>
<td>Initializes a new instance of the RasComponent class.</td>
</tr>
<tr>
<td>RasComponent(IContainer)</td>
<td>Initializes a new instance of the RasComponent class.</td>
</tr>
</tbody>
</table>
See Also

RasComponent Class
RasComponent Members
DotRas.Design Namespace

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RasComponent Constructor

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>protected RasComponent()</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Protected Sub New</code></td>
<td></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>protected: RasComponent()</code></td>
<td></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td></td>
</tr>
<tr>
<td><code>new : unit -&gt; RasComponent</code></td>
<td></td>
</tr>
</tbody>
</table>
See Also

RasComponent Class
RasComponent Members
RasComponent Overload
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasComponent Constructor (IContainer)

RasComponent Class  See Also  Send Feedback

Initializes a new instance of the RasComponent class.

**Namespace:** DotRas.Design

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| C#       | ```
protected RasComponent(
   .IContainer container
)
``` |
| Visual Basic | ```
Protected Sub New (
    container As IContainer
)
``` |
| Visual C++ | ```
protected: RasComponent(
    IContainer^ container
)
``` |
| F#       | ```
new : container : IContainer -> RasComponent
``` |

### Parameters

*container*

Type: [System.ComponentModel.IContainer](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.icontainer)

An [IContainer](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.icontainer) that will contain this component.
See Also

RasComponent Class
RasComponent Members
RasComponent Overload
DotRas.Design Namespace

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The **RasComponent** type exposes the following members.
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CreateObjRef</code></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td><code>Dispose()</code></td>
<td>Releases all resources used by the <code>Component</code>. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td><code>Dispose(Boolean)</code></td>
<td>Releases the unmanaged resources used by the <code>Component</code> and optionally releases the managed resources. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td><code>Equals</code></td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><code>Finalize</code></td>
<td>Releases unmanaged resources and performs other cleanup operations before the <code>Component</code> is reclaimed by garbage collection. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>Serves as a hash function for a particular type. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><code>GetLifetimeService</code></td>
<td>Retrieves the current lifetime service object that controls the lifetime policy for this instance. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td><code>GetService</code></td>
<td>Returns an object that represents a service provided by the <code>Component</code> or by its <code>Container</code>.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Get</strong>Type</td>
<td>Gets the <em>Type</em> of the current instance. (Inherited from <em>Object</em>.)</td>
</tr>
<tr>
<td><strong>InitializeComponent</strong></td>
<td>Initializes the component.</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance. (Inherited from <em>MarshalByRefObject</em>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone()</strong></td>
<td>Creates a shallow copy of the current <em>Object</em>. (Inherited from <em>Object</em>.)</td>
</tr>
<tr>
<td><strong>MemberwiseClone(Boolean)</strong></td>
<td>Creates a shallow copy of the current <em>MarshalByRefObject</em> object. (Inherited from <em>MarshalByRefObject</em>.)</td>
</tr>
<tr>
<td><strong>OnError</strong></td>
<td>Raises the <em>Error</em> event.</td>
</tr>
<tr>
<td><strong>RaiseEvent(TEventArgs)</strong></td>
<td>Raises the event specified by <em>method</em> with the event data provided.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Returns a <em>String</em> containing the name of the <em>Component</em>, if any. This method should not be overridden. (Inherited from <em>Component</em>.)</td>
</tr>
</tbody>
</table>
See Also

RasComponent Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasComponent.InitializeComponent Method

RasComponent Class  See Also  Send Feedback

Initializes the component.

**Namespace:** DotRas.Design

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><code>protected virtual void InitializeComponent()</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><code>Protected Overridable Sub InitializeComponent</code></td>
</tr>
<tr>
<td><strong>Visual C++</strong></td>
</tr>
<tr>
<td><code>protected: virtual void InitializeComponent()</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
</tr>
<tr>
<td><code>abstract InitializeComponent : unit -&gt; unit</code>&lt;br&gt;<code>override InitializeComponent : unit -&gt; unit</code></td>
</tr>
</tbody>
</table>
See Also

- RasComponent Class
- RasComponent Members
- DotRas.Design Namespace

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RasComponent.OnError Method

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)

Raises the Error event.
## Syntax

### C#

```csharp
protected void OnError(
    ErrorEventArgs e
)
```

### Visual Basic

```vbnet
Protected Sub OnError (  
    e As ErrorEventArgs
)
```

### Visual C++

```cpp
protected:
void OnError(
    ErrorEventArgs^ e
)
```

### F#

```fsharp
member OnError :
    e : ErrorEventArgs -> unit
```

## Parameters

- **e**
  - Type: `System.IO.ErrorEventArgs`
  - An `ErrorEventArgs` containing event data.
See Also

RasComponent Class
RasComponent Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasComponent.RaiseEvent(TEventArgs) Method

 Raises the event specified by method with the event data provided.

**Namespace:** DotRas.Design

**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
protected void RaiseEvent<TEventArgs>(
    EventHandler<TEventArgs> method,
    TEventArgs e
)
where TEventArgs : EventArgs
```

Visual Basic

```vbnet
Protected Sub RaiseEvent(Of TEventArgs As EventArgs)
    method As EventHandler(Of TEventArgs),
    e As TEventArgs
)
```

Visual C++

```cpp
protected:
    template<typename TEventArgs>
    where TEventArgs : EventArgs
    void RaiseEvent(
        EventHandler<TEventArgs>^ method,
        TEventArgs e
    )
```

F#

```fsharp
member RaiseEvent :
    method : EventHandler<'TEventArgs> *
    e : 'TEventArgs -> unit when 'TEventArgs :
```

Parameters

*method*
Type: `System.EventHandler<TEventArgs>()`
The event delegate being raised.

e
Type: **EventArgs**
An **EventArgs** containing event data.
Type Parameters

TEventArgs
The EventArgs used by the event delegate.
See Also

RasComponent Class
RasComponent Members
DotRas.Design Namespace

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The **RasComponent** type exposes the following members.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanRaiseEvents</td>
<td>Gets a value indicating whether the component can raise an event. (Inherited from Component.)</td>
</tr>
<tr>
<td>Container</td>
<td>Gets the IContainer that contains the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>DesignMode</td>
<td>Gets a value that indicates whether the Component is currently in design mode. (Inherited from Component.)</td>
</tr>
<tr>
<td>Events</td>
<td>Gets the list of event handlers that are attached to this Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>Site</td>
<td>Gets or sets the ISite of the Component. (Inherited from Component.)</td>
</tr>
<tr>
<td>SynchronizingObject</td>
<td>Gets or sets the object used to marshal event-handler calls that are issued by the component.</td>
</tr>
</tbody>
</table>
See Also

RasComponent Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasComponent.SynchronizingObject Property

Gets or sets the object used to marshal event-handler calls that are issued by the component.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
Syntax

C#

```csharp
public ISynchronizeInvoke SynchronizingObject { get; }
```

Visual Basic

```vbnet
Public Property SynchronizingObject As ISynchronizeInvoke
    Get
    Set
```

Visual C++

```cpp
public:
property ISynchronizeInvoke^ SynchronizingObject { 
    ISynchronizeInvoke^ get ();
    void set (ISynchronizeInvoke^ value);
}
```

F#

```fsharp
member SynchronizingObject : ISynchronizeInvoke with
```

**Property Value**
Type: ISynchronizeInvoke
Remarks

This property is only required if you need to marshal events raised by the component back to another thread. Typically this is only needed if you're using a user interface, applications like Windows services do not require any thread marshaling.
See Also

RasComponent Class
RasComponent Members
DotRas.Design Namespace

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The **RasComponent** type exposes the following members.
## Events

<table>
<thead>
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<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>☢️ <strong>Disposed</strong></td>
<td>Occurs when the component is disposed by a call to the <code>Dispose()</code> method. (Inherited from <code>Component</code>.)</td>
</tr>
<tr>
<td>☢️ <strong>Error</strong></td>
<td>Occurs when the component has encountered an error.</td>
</tr>
</tbody>
</table>
See Also

RasComponent Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasComponent.Error Event

Occurs when the component has encountered an error.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public event EventHandler&lt;ErrorEventArgs&gt; Error</code></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Event Error As EventHandler(Of ErrorEventArgs)</code></td>
</tr>
</tbody>
</table>
| **Visual C++** | `public:  
event EventHandler<ErrorEventArgs^>^ Error {  
    void add (EventHandler<ErrorEventArgs^>^ value)  
    void remove (EventHandler<ErrorEventArgs^>^ value)  
}  
` |
| **F#**   | `member Error : IEvent<EventHandler<ErrorEventArgs>, ErrorEventArgs>` |

### Value

Type: `System.EventHandler<ErrorEventArgs>`
See Also

RasComponent Class
RasComponent Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasOwnedCollection(TOwner, TObject) Class

Provides the abstract base class for a remote-capable collection whose objects are owned by other objects. This class must be inherited.

**Namespace:** DotRas.Design  
**Assembly:** DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
public abstract class RasOwnedCollection<TOwner, TObject>
    where TOwner : class
    where TObject : class
```

### Visual Basic

```vbnet
Public MustInherit Class RasOwnedCollection(Of TOwner)
    Inherits RasCollection(Of TObject)
```

### Visual C++

```cpp
generic<typename TOwner, typename TObject>
    where TOwner : ref class
    where TObject : ref class
public ref class RasOwnedCollection abstract : public
```

### F#

```fsharp
[<AbstractClassAttribute>]
type RasOwnedCollection<'TOwner, 'TObject when 'TOwner : class
    inherit RasCollection<'TObject>
end
```
Type Parameters

TOwner
The type of object that owns the objects in the collection.

TObject
The type of object contained in the collection.
Inheritance Hierarchy

- **System.Object**
- **System.MarshalByRefObject**
- **DotRas.Design.RasCollection(TObject)**
- **DotRas.Design.RasOwnedCollection(TOwner, TObject)**
- **DotRas.RasEntryCollection**
- **DotRas.RasSubEntryCollection**
See Also

RasOwnedCollection(TOwner, TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasOwnedCollection(TOwner, TObject)** type exposes the following members.
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RasOwnedCollection(TOwner, TObject)</td>
<td>Initializes a new instance of the RasOwnedCollection(TOwner, TObject) class.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>Add</strong></td>
<td>Adds the item to the collection. (Inherited from <code>RasCollection(TObject)</code>.)</td>
</tr>
<tr>
<td><strong>Clear</strong></td>
<td>Clears the items in the collection. (Inherited from <code>RasCollection(TObject)</code>.)</td>
</tr>
<tr>
<td><strong>ClearItems</strong></td>
<td>Clears the items in the collection. (Inherited from <code>RasCollection(TObject)</code>.)</td>
</tr>
<tr>
<td><strong>Contains</strong></td>
<td>Determines whether the phone book contains the entry specified. (Inherited from <code>RasCollection(TObject)</code>.)</td>
</tr>
<tr>
<td><strong>CopyTo</strong></td>
<td>Copies the entries to a <code>Array</code> starting at a particular index. (Inherited from <code>RasCollection(TObject)</code>.)</td>
</tr>
<tr>
<td><strong>CreateObjRef</strong></td>
<td>Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from <code>MarshalByRefObject</code>.)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>Determines whether the specified <code>Object</code> is equal to the current <code>Object</code>. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <code>Object</code>.)</td>
</tr>
<tr>
<td><strong>GetEnumerator</strong></td>
<td>Returns an enumerator that iterates through the collection.</td>
</tr>
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<td>Method</td>
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</tr>
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<tr>
<td><strong>GetHashCode</strong></td>
<td>Serves as a hash function for a particular type.</td>
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<tr>
<td><strong>GetLifetimeService</strong></td>
<td>Retrieves the current lifetime service object that controls the lifetime</td>
</tr>
<tr>
<td></td>
<td>policy for this instance.</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>Gets the Type of the current instance.</td>
</tr>
<tr>
<td><strong>IndexOf</strong></td>
<td>Searches for the specified item within the collection.</td>
</tr>
<tr>
<td><strong>InitializeLifetimeService</strong></td>
<td>Obtains a lifetime service object to control the lifetime policy for this instance.</td>
</tr>
<tr>
<td><strong>InsertItem</strong></td>
<td>Inserts the item at the index specified.</td>
</tr>
<tr>
<td><strong>MemberwiseClone()</strong></td>
<td>Creates a shallow copy of the current Object.</td>
</tr>
<tr>
<td><strong>MemberwiseClone(Boolean)</strong></td>
<td>Creates a shallow copy of the current MarshalByRefObject object.</td>
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<td><strong>Remove</strong></td>
<td>Removes an entry from the collection.</td>
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<td><strong>RemoveAt</strong></td>
<td>Removes the entry at the specified index in the collection. (Inherited from RasCollection(TObject).)</td>
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<tr>
<td><strong>ToString</strong></td>
<td>Returns a string that represents the current object. (Inherited from Object.)</td>
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<td>IsInitializing</td>
<td>Gets or sets a value indicating whether the collection is initializing. (Inherited from RasCollection TObject.)</td>
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<tr>
<td>IsReadOnly</td>
<td>Gets a value indicating whether the collection is read-only. (Inherited from RasCollection TObject.)</td>
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<tr>
<td>Item</td>
<td>Gets an entry from the collection. (Inherited from RasCollection TObject.)</td>
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<tr>
<td>Owner</td>
<td>Gets the owner of the collection.</td>
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See Also

RasOwnedCollection(TOwner, TObject) Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasOwnedCollection(TOwner, TObject) Constructor

Initializes a new instance of the RasOwnedCollection(TOwner, TObject) class.

Namespace: DotRas.Design
Assembly: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
### Parameters

**owner**

Type: `TOwner`

The owner of the collection.
### Exceptions

<table>
<thead>
<tr>
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</tr>
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<tr>
<td><code>System.ArgumentNullException</code></td>
<td><code>owner</code> is a null reference (Nothing in Visual Basic).</td>
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See Also

RasOwnedCollection(TOwner, TObject) Class
RasOwnedCollection(TOwner, TObject) Members
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
The **RasOwnedCollection**(TOwner, TObject) type exposes the following members.
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See Also

RasOwnedCollection(TOwner, TObject) Class
DotRas.Design Namespace
The **RasOwnedCollection**(TOwner, TObject) type exposes the following members.
## Properties

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See Also

RasOwnedCollection(TOwner, TObject) Class
DotRas.Design Namespace

Copyright (c) Jeff Winn. All rights reserved.
RasOwnedCollection(TOwner, TObject).Owner Property

RasOwnedCollection(TOwner, TObject) Class See Also Send Feedback

Gets the owner of the collection.

**Namespace**: DotRas.Design

**Assembly**: DotRas (in DotRas.dll) Version: 1.3.5166.33435 (1.3.0.0)
## Syntax

### C#

```csharp
protected TOwner Owner { get; }
```

### Visual Basic

```vbnet
Protected ReadOnly Property Owner As TOwner
Get
```

### Visual C++

```cpp
protected:
property TOwner Owner {
    TOwner get ();
}
```

### F#

```fsharp
member Owner : 'TOwner with get
```

## Property Value

Type: TOwner
See Also

RasOwnedCollection(TOwner, TObject) Class
RasOwnedCollection(TOwner, TObject) Members
DotRas.Design Namespace

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