

Overview

Radius Test is a very useful test utility for testing installations of your RADIUS server. Through Radius Test you can simulate authentication and accounting requests and send them to the RADIUS server making Radius Test act as a NAS client.

There are enhanced features included that make Radius Test even more user-friendly. These include:

Graphical Interface

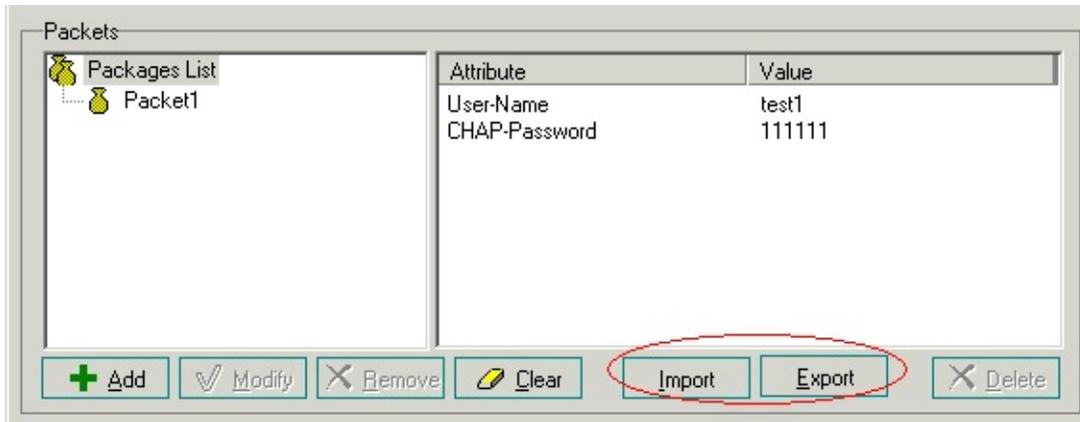
A newly designed interface to automate all functions with the click of a button.

Settings Area

You can change your settings without using menus.

We believe you will find "Radius Test" both easy to use and a major time saver. Please send all comments, suggestions, or questions to support@radutils.com

What's New in Radius Test



1. The Packages import.

2. The Packages export.

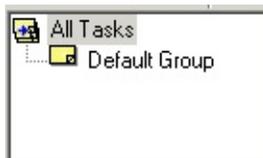
[Creating, editing and deleting task groups](#)

[Creating, editing and deleting tasks](#)

[Task execution](#)

Creating, editing and deleting task groups.

Using this *Task Group List* you can organize different tasks in task groups. This makes locating specific tasks easier.



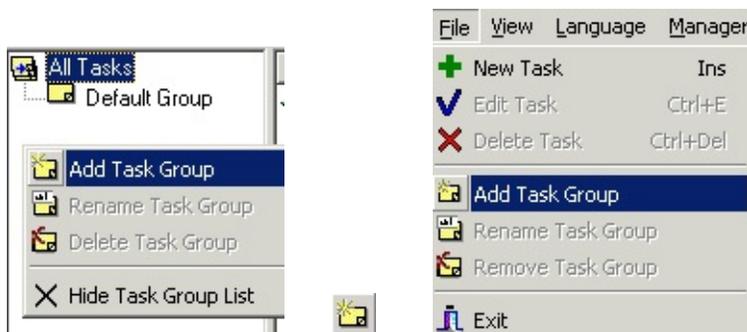
The currently selected group is marked by a *blue* arrow. The task list shows the selected groups tasks, or all existing tasks if the *All tasks* group is selected.

All Tasks

The uppermost (root) object is called *All Tasks* and cannot be deleted or renamed. Selecting this object shows all tasks regardless of their assigned groups.

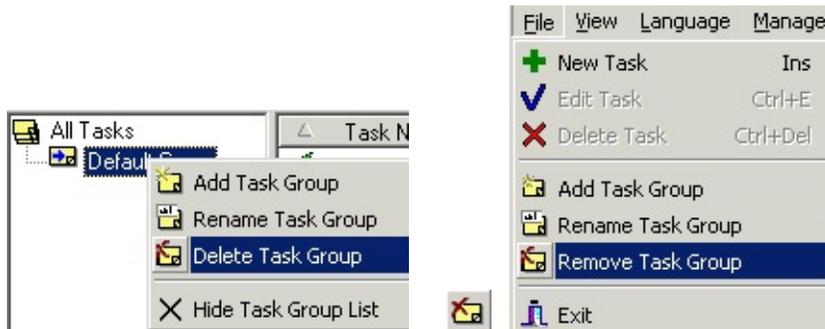
To create a new task group

Right click on the *All tasks* group, select "Add Task Group" menu item, or select "Add Task Group" button, or select "File | Add Task Group" menu item, and enter a name for the new group.



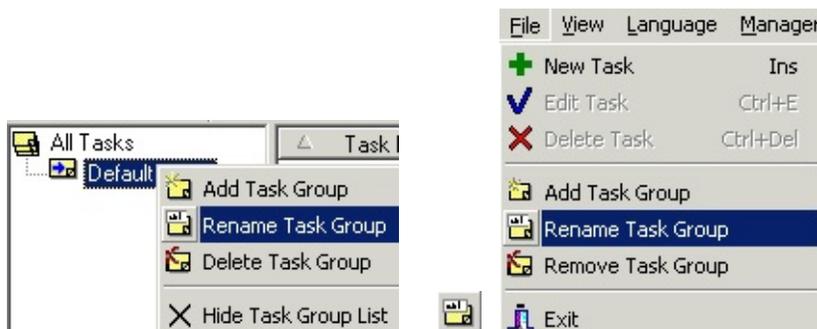
To delete a task group

Right click on the group you want to delete, select "**Remove Task Group**" menu item, or select "**Remove Task Group**" button, or select "**File | Remove Task Group**" menu item. If the group has any tasks in it they will be moved to *All Tasks* group automatically. The *All Tasks* group cannot be deleted.



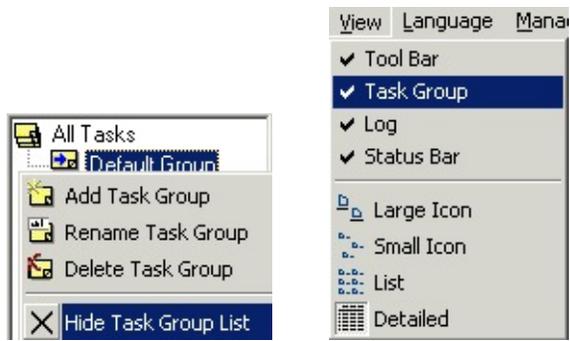
To rename a task group

Right click on the group item you want to rename, select "**Rename Task Group**" menu item, or select "**Rename Task Group**" button, or select "**File | Rename Task Group**" menu item. and enter a new name for the group. The *All Tasks* group can not be renamed.



To hide task group list

Right click on the group item you want to rename, select "**Hide Task Group List**" menu item, or select "**View | Task Group**" menu item.



See also:

[Creating, editing, viewing and deleting tasks](#)

Creating, editing, viewing and deleting tasks

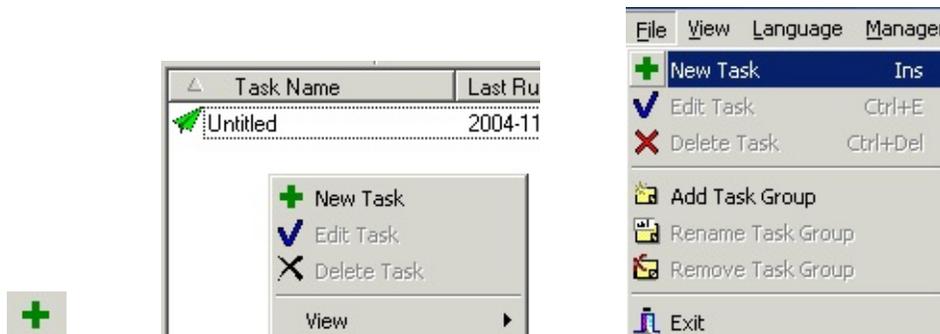
This list displays the tasks of the current task group, or all of your tasks if *All tasks* is selected:

Task Name	Last Run Time	Next Run Time	Server IP
test1	2004-11-16 21:04:00	Manually	192.168.16.149
test2	2004-11-16 21:05:13	2004-11-16 21:35:13	192.168.16.116

In order to test, you must first create a task list.

To create a new task

To create a Task List you must define a Task Name, Radius Packages and other settings. Right click in the Task list, or click the "New Task" button, or select "File | New Task" menu item:



Then the "Task Properties" window will be displayed:

The 'Task Properties' dialog box is shown with the following fields and settings:

- Task Name: AuthTest(PAP)
- Task ID: 437873
- Server IP: 192.168.16.149
- Secret Key: [Redacted]
- Request Type: Auth
- Port: 1812
- Code: 1
- Mode: PAP

There are three tabs: 'Setting' (selected), 'Additional Packages', and 'Schedule'. The 'Setting' tab is divided into two sections:

- General:**
 - Reply Timeout [sec.]: 3
 - RetryTimes: 3
- Additional Options:**
 - RadReqStartId: 0
 - Repeat Times: 1
 - NumReqsInPar: 1
 - NumReqsPerSec: 0

Buttons for 'OK' and 'Cancel' are at the bottom right.

- **Task Name** - Type the Task Name that you want for the task.

Task Name:

- **Server IP** - Type or select the RADIUS server internet protocol address that you want for the task.
- **Secret key** - Type the RADIUS secret key that you want for the task.

Server IP: Secret Key:

- **Request Type** - Select the Request Type that you want for the task.
- **Port** - Assign RADIUS server port.
- **Code** - Display RADIUS Codes (decimal), if "**Request Type**" is "**User Defined**", you can assign RADIUS Codes (decimal)
- **Mode** - Select the Auth Type that you want for the task. If you select "PAP", you must explicitly enter the "User-Password" attribute in the request attribute list, if you select "CHAP", you must explicitly enter the "CHAP-Password" attribute in the request attribute list, if you select "EAP-MD5", you must explicitly enter the "EAP-MD5-Password" attribute in the request attribute list.

Request Type: Port: Code: Mode:

1. Setting window

General

Reply Timeout [sec.]:

RetryTimes:

Additional Options

RadReqStartId:

Repeat Times:

NumReqsInPar:

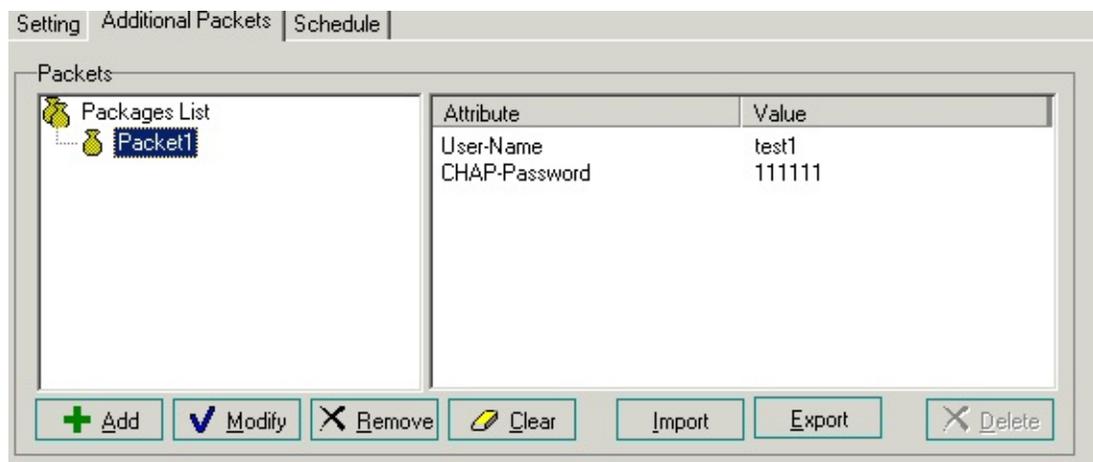
NumReqsPerSec:

- **Reply Timeout [sec.]** - Set the reply timeout.
- **Retry Times** - Set the retry parameter when reply timeout.
- **RadReqStartId** - Set the Radius request start id.
- **Repeat Times** - Set each packet repeat send times.
- **NumReqInPar** - Set send packet requests number in parallel, without waiting for a response for each one. By default (**Default value is 1**), Radius

Test sends the first request listed in a task, waits for the response, and once the response is received, sends the second request. This option allows you to send many requests at a time. Once requests number in parallel are sent, Radius Test waits for all of the responses to arrive (or for the requests to time out), before sending any more packets.

- **NumReqsPerSec** - Set send requests number per second, evenly spaced over time. By default (**Default value is 0**), the requests are sent as fast as possible. This option allows you to slow down the rate at which Radius Test sends requests.

2. Additional Packet window

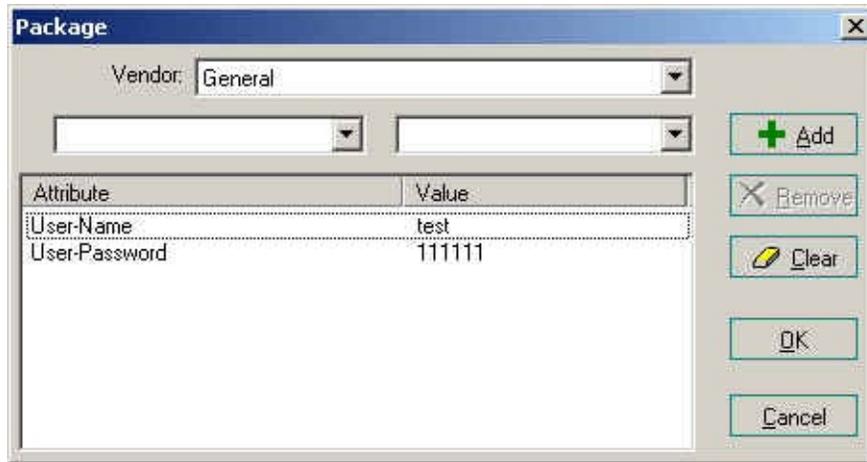


Packets List - the packets will be displayed in the list of "Packets List".

Attributes List - the attributes will be displayed in the list of "Attributes List" of each selected packet.

To add a Packet

1. Click on the **"Add"** button and the "Packet" window will be displayed:



you can add as many Radius attributes as you like to your request. The list of available attributes and the relevant values in the two dropdown boxes depend on the dictionary file.

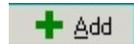
1. Find the name of the vendor you wish to view in the list of "Vendor Name".



2. Select the attribute name from the attribute name dropdown list, or enter the attribute name.



3. Select the attribute value from the attribute value drop down list, or enter the attribute value, and click "**Add**" button to add the attribute to attribute list.



4. To remove an attribute that currently resides in the attribute list, select the attribute record and click "Remove" button.



5. To clear the attribute list, click "Clear" button.

After that you can press the "**OK**" button to save the packet, or press the "**Cancel**" to cancel the packet.

To Modify a Packet

If you wish to modify a packet that currently resides in the **Packets list**:

1. Select the packet record from the **Packets list**.
2. Click the "Modify" button.

To delete a Packet

If you wish to delete a packet that currently resides in the **Packets list**:

1. Select the packet record from the **Packets list**.
2. Click the "Remove" button.

To Import Packets List

1. Click the "Import" button.
2. Select your packet file.

The file format, for example:

```
#Packet1
Acct-Authentic = RADIUS
Acct-Authentic = Local
Acct-Delay-Time = 1000
Acct-Input-Octets = "temp; temp"

#Packet2
Acct-User-Name = "Mr Test"
Acct-Tunnel-Packets-Lost = "test, test"
Acct-Delay-Time = 200
```

To Export Packets List

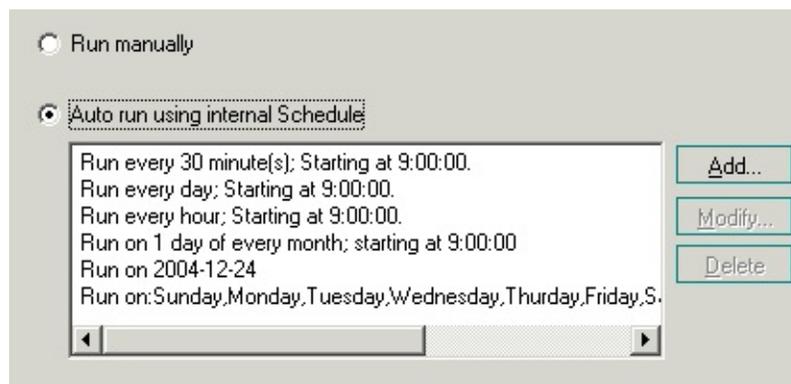
1. Click the "Export" button.
2. Select path and enter your file name.

To clear Packets List

If you wish to clear all packet that currently resides in the **Packets list**:

1. Click the "Clear" button.

2. Schedule window

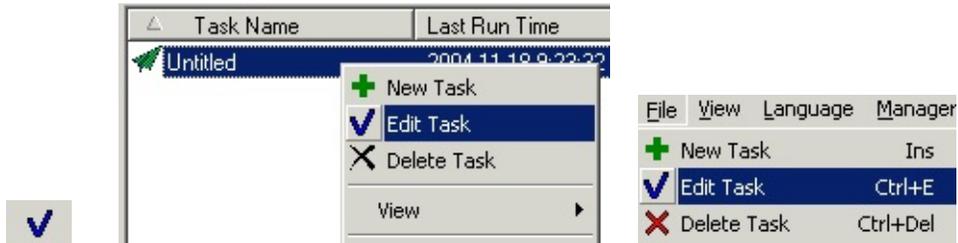


Run manually - Select "Run manually" if you do not want Radius Test send packet automatically.

Auto run using internal Schedule - If you want to make test according to a schedule, Radius Test provides practically [all possible variants](#).

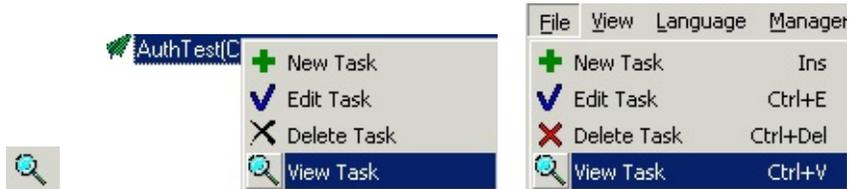
To Edit a task

Right click on the task you want to delete, select "**Edit Task**" menu item, or select "**Edit Task**" button, or select "**File | Edit Task**" menu item.



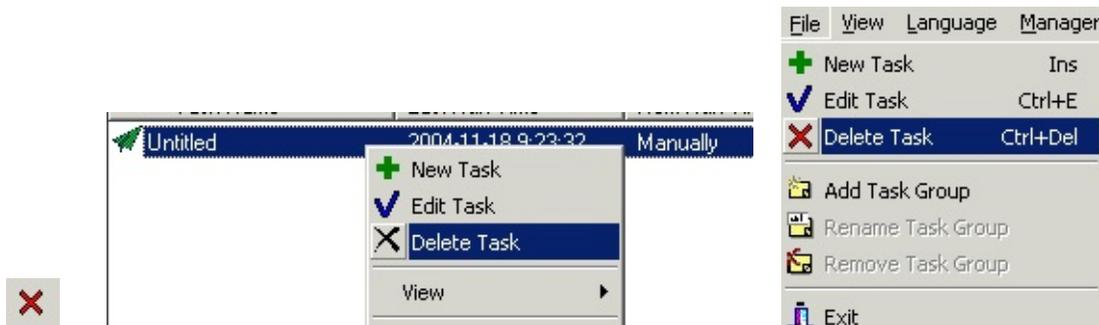
To View a task

Right click on the task you want to view, select "**View Task**" menu item, or select "**View Task**" button, or select "**File | View Task**" menu item.



To delete a task

Right click on the task you want to delete, select "**Delete Task**" menu item, or select "**Delete Task**" button, or select "**File | Delete Task**" menu item.



See also:

[Creating, editing and deleting task groups](#)

[Schedule Tasks](#)

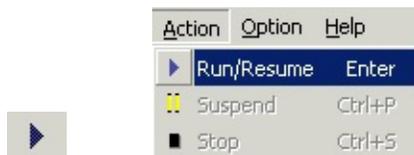
To start task, choose the task in the tasks list and click the "**Run/Resume**" button, or select "**Action | Run/Resume**" menu item:



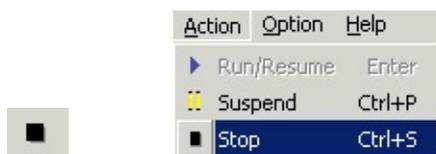
To Suspend task (running only) choose the task in the tasks list and click the "**Suspend**" button, or select "**Action | Suspend**" menu item:



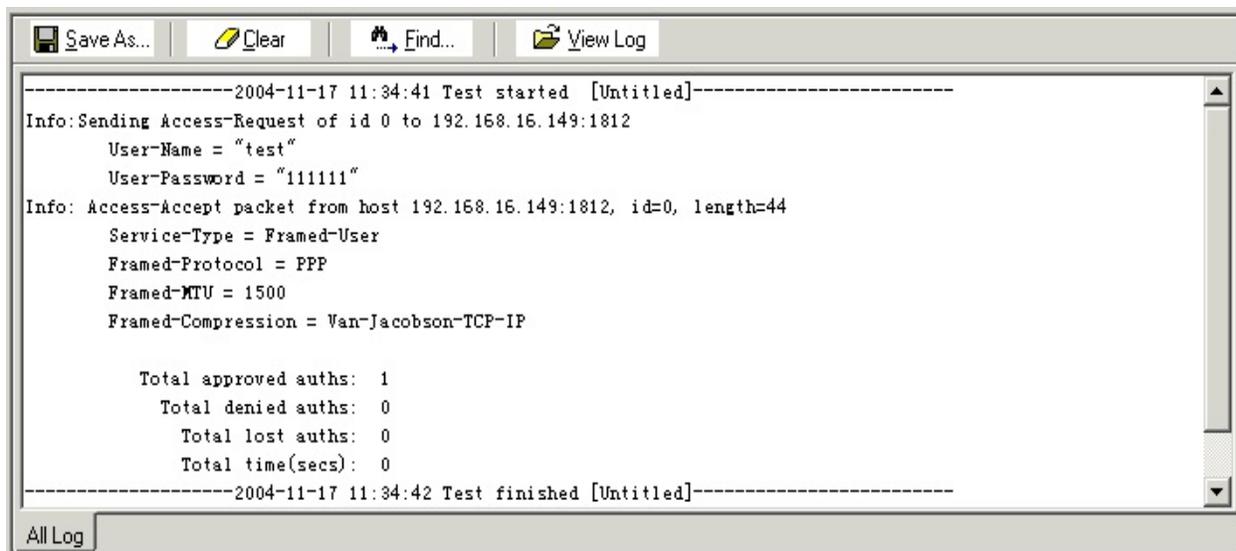
To Resume task, choose the task in the tasks list and click the "**Run/Resume**" button, or select "**Action | Run/Resume**" menu item:



To stop task (running only) choose the task in the tasks list and click the "**Stop**" button, or select "**Action | Stop**" menu item:



After task has been completed, all test information can be viewed in the **Log** screen:



Schedule tasks

Radius Test provides a great variety of recurrence options if you want to make test according to a schedule.

- Every **Minutes/Hours/Days** :
 - **Within Minutes** - Run every few minutes enter minutes
 - **Within Hours** - Every few hours enter hours
 - **Within Days** - Every few days enter days
- **Within Weeks** - Run on:
 - Mondays *
 - Tuesdays *
 - Wednesdays *
 - Thursdays *
 - Fridays *
 - Saturdays *
 - Sundays *
- **Within Months** - Run on Nth day of the month(s), **or** Nth day of the [first | second | third | fourth | last] weekday of the month(s):
 - January
 - February
 - March
 - April
 - May
 - June
 - July
 - August
 - September
 - October
 - November
 - December
- **Once** select the date and time when you wish test to start

* Select the days of the week on which Radius Test should not run the Task. This is useful if, for instance, you want to skip the weekends.

****** The wait time is needed to mitigate processor/HDD overload on startup.

See also:

[Creating, editing, viewing and deleting tasks](#)

Radius Server Configure:

Before you send the request to the RADIUS server, you need to define a RADIUS client (usually a NAS) and the shared secret in the server clients file.

Before you send the request to the RADIUS server, you need to define a Radius user and the password in the server users file.

All the other parameters are optional.

Radius Test Configure:

Radius Test act as a NAS client.

You can force Radius Test to issue a authentication requests, on authenticating requests, you must explicitly enter the "User-Name" and "CHAP-Password" or "User-Password" or "EAP-MD5-Password" attribute in the request attribute list, Radius Test can issue a PAP authentication requests if you add the "User-Password" attribute, Radius Test can issue a CHAP authentication requests if you add the "CHAP-Password" attribute, Radius Test can issue a EAP-MD5 authentication requests if you add the "EAP-MD5-Password" attribute.

You can force Radius Test to issue an accounting request, on accounting requests, you must explicitly enter the "Acct-Session-Id" and "Acct-Status-Type" attribute in the request attribute list, depending on the value of "Acct-Status-Type", Radius Test can issue accounting start, stop or update request.

In the lower listbox you can add as many Radius attributes as you like to your request. The list of available attributes and the relevant values in the two dropdown boxes depend on the dictionary file.

In the Log listbox you will get results about the Radius request, along with a complete dump of all the returned Radius attributes.

How to Update from a old Version to a new Version of Radius Test? What is the best way to do this?

It can't be update from the 1.x to the 2.x version. But It will be possible from the 2.x to the final version. You can:

- 1.Backup the old version's **RadiusTest.dat** file and **script** folder in the application install directory.



RadiusTest.dat -- The Radius Test database file to store catalog data.

script folder -- The script files to store RADIUS attribute/value pairs for each Task. Filename format is TaskID.txt.

- 2.Uninstall the old version **Radius Test**.



- 3.Install the newer version **Radius Test**.
- 4.Use the old version's **RadiusTest.dat** file and **script** folder to replace the **RadiusTest.dat** file and **script** folder in application install directory.

Menu Items

- **File**
 - **New Task** - Create a new task.
 - **Edit Task** - Edit the task that you selected.
 - **Delete Task** - Delete the task that you selected.
 - **View Task** - View the task that you selected.
 - **Add Task Group** - Add a new task group.
 - **Rename Task Group** - Rename the task group that you selected.
 - **Remove Task Group** - Delete the task group that you selected.
 - **Exit** - Quits program.
- **View**
 - **Tool Bar** - Display/Hide tool bar.
 - **Task Group** - Display/Hide task group window.
 - **Log** - Display/Hide Log window.
 - **Status Bar** - Display/Hide status bar.
 - **Large Icon** - Display task items by using large icons.
 - **Small Icon** - Display task items by using small icons.
 - **List** - Display task items in a list.
 - **Detailed** - Display information about each task item in window.
- **Language**
 - **Chinese**-switch GUI language to Chinese.
 - **English**-switch GUI language to English.
- **Manager**
 - **Server Manager**-You can add and delete your Radius Server information.
 - **Dictionary Manager**-You can add, edit and delete your dictionary file.
- **Action**
 - **Run/Resume**-Run/Resume the task that you selected.
 - **Suspend**-Suspend the task that you selected.
 - **Stop**-Stop the task that you selected.
- **Option**
 - **Option** - brings up the **Options** dialog box.
- **Help**
- **Contents** - Opens the help window.
- **About** - Opens a window with information about Radius Test.

- **Register Online** - takes you directly to Radius Test online register page.
- **Enter Register Code** - opens the window for entering the registration key.
- **Home page** - Takes you directly to Radius Test Homepage.
- **Register Online** - takes you directly to Radius Test online register page.

Radius Test support value types are:

string - 0-253 octets

ipaddr - 4 octets in network byte order

integer - 32 bit value in big endian order (high byte first)

date - 32 bit value in big endian order - seconds since 00:00:00 GMT, Jan. 1, 1970

ifid - 8 octets in network byte order

ipv6addr - 16 octets in network byte order

ipv6prefix - 18 octets in network byte order

Radius Test support extended value types which are not defined in RFC 2865 or RFC 2869, or RFC 3162:

octets - raw octets, printed and input as hex strings. e.g.: 0x123456789abcdef

For example:

VENDOR Microsoft 311

BEGIN-VENDOR Microsoft

ATTRIBUTE MS-CHAP-Response	1	octets
ATTRIBUTE MS-CHAP-Error	2	string
ATTRIBUTE MS-CHAP-CPW-1	3	octets
ATTRIBUTE MS-CHAP-CPW-2	4	integer
ATTRIBUTE MS-CHAP-LM-Enc-PW	5	integer
ATTRIBUTE MS-CHAP-NT-Enc-PW	6	octets

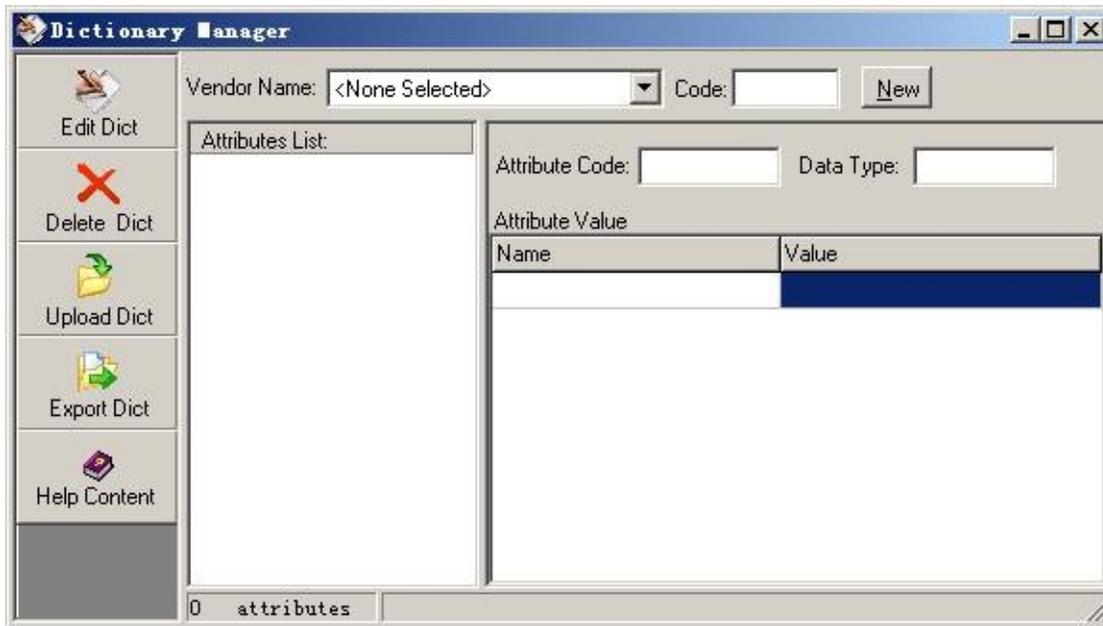
VALUE MS-CHAP-Response Not-Allowed	0
------------------------------------	---

VALUE MS-CHAP-Error Allowed	1
-----------------------------	---

VALUE MS-CHAP-CPW-1 Required	2
------------------------------	---

END-VENDOR Microsoft

Dictionary Manager Utility

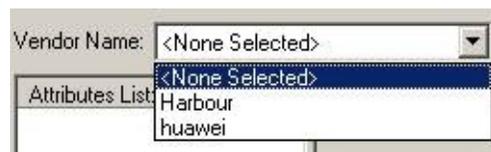


Use Dictionary Manager Utility to view, add and delete Vendor Dictionaries from the Radius Test. This will provide access to the associated Vendor Specific Attributes for use in Functional and Performance tests.

To view an existing dictionary

If you wish to view a dictionary that currently resides on the Radius Test, click on the "Edit Dict" section.

1. Find the name of the dictionary you wish to view in the list of "Vendor Name".



2. Click on the dictionary name and the attributes will be displayed in the list of "Attributes List".

Attributes List:	Attribute Code: <input type="text"/>	Data Type: <input type="text"/>				
hw-Input-Peak-Rate	Attribute Value					
hw-Input-Average-Rate	<table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>		Name	Value		
Name	Value					
hw-Input-Basic-Rate						
hw-Output-Peak-Rate						
hw-Output-Average-Rate						
hw-Output-Basic-Rate						
hw-Remanent-Volume						
hw-Version						
hw-Product-ID						

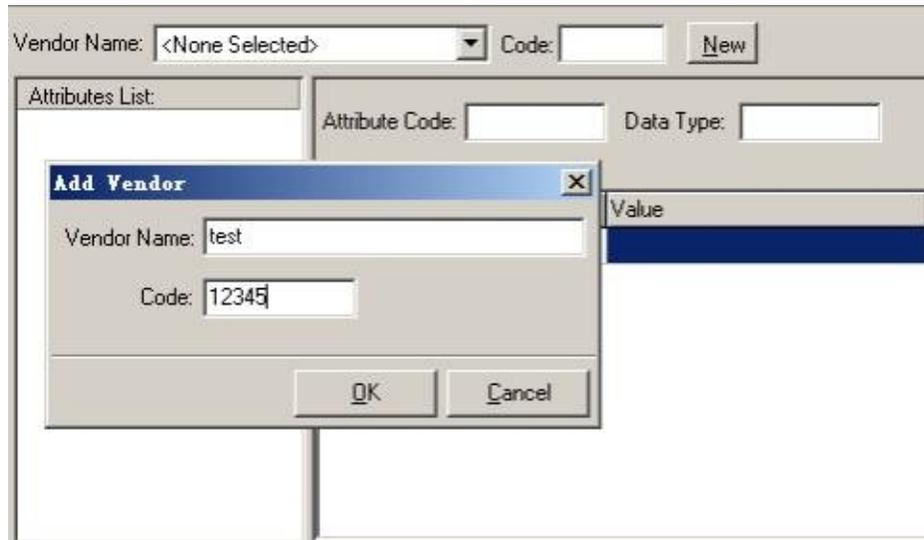
3. Click on the attribute name and the attribute information will be displayed in the list of "Attributes Information".

Vendor Name: <input type="text" value="huawei"/>	Code: <input type="text" value="2011"/>	<input type="button" value="New"/>				
Attributes List:	Attribute Code: <input type="text" value="6"/>	Data Type: <input type="text" value="integer"/>				
hw-Input-Peak-Rate	Attribute Value					
hw-Input-Average-Rate	<table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>		Name	Value		
Name	Value					
hw-Input-Basic-Rate						
hw-Output-Peak-Rate						
hw-Output-Average-Rate						
hw-Output-Basic-Rate						
hw-Remanent-Volume						
hw-Version						
hw-Product-ID						

To edit a new or an existing dictionary

If you wish to edit a new or and an existing dictionary, click on the "Edit Dict" section. If you wish to edit an existing dictionary, skip to step 2.

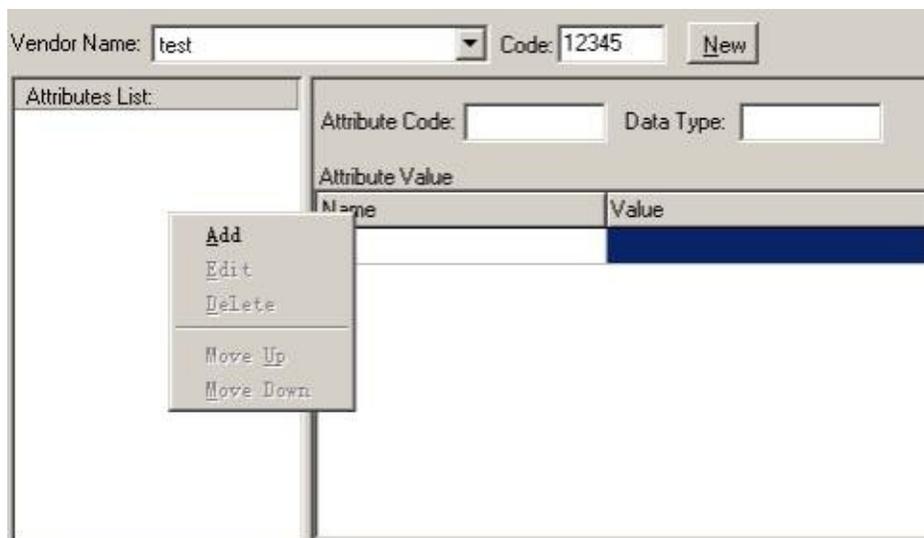
1. Click on the "New" button and the "Add vendor" window will be displayed, enter a name and a code for the new Vendor.



2. Find the name of the dictionary you wish to edit in the list of "Vendor Name".



3. Right click in the "Attributes List" and the pop menu will be displayed. You can add,edit and delete attributes information.



To add a attribute, select "Add" menu item, then enter a name and a code for the new attribute, select the " Date Type " from the drop down

list, add values for the new attribute. The attribute should be added to the list of current attributes list after click on the "OK" button.

Attribute

Attribute Name: att1

Attribute Code: 1 Data Type: integer

Attribute Value(Press ↓ key to add a row)

Name	Value
t1	1
t2	2

OK Cancel

To edit a attribute, select "Edit" menu item, enter new values for the existing attribute.

Attribute

Attribute Name: att1

Attribute Code: 1 Data Type: integer

Attribute Value(Press ↓ key to add a row)

Name	Value
t1	1
t2	2

OK Cancel

To delete a attribute, select the attribute in the list of " attributes list" then select "Delete" menu item.

To delete a dictionary

If you wish to delete a dictionary that currently resides on the Radius Test, click

on the "Delete Dict" section.

1. Select the dictionary name from the drop down list.
2. Click the "Delete" button.

To upload a dictionary

If you wish to upload a vendor dictionary to the Radius Test, click on the "Upload Dict" section.

1. Select the "Browse" button.
2. Browse to the dictionary you wish to upload.
3. Select the "Upload" button.

To export a dictionary

If you wish to export a dictionary that currently resides on the Radius Test, click on the "Export Dict" section.

1. Select the dictionary name from the drop down list.
2. Click the "Export" button.

Supported Dictionary Format

The dictionary that you upload, must be in the following format.

```
#=====  
#Header  
#=====  
VENDOR      VendorName      VendorCode  
  
#=====  
#Vendor Specific Attribute Section  
#=====  
BEGIN-VENDOR VendorName  
ATTRIBUTE    AttributeName      AttributeCode      DataType  
...  
  
#=====  
#Enum Value Section  
#=====  
VALUE        AttributeName      ValueName          ValueCode  
...  
END-VENDOR VendorName
```

Example:

```
VENDOR      Microsoft 311

BEGIN-VENDOR Microsoft
ATTRIBUTE   MS-CHAP-Response      1  octets
ATTRIBUTE   MS-CHAP-Error      2  string
ATTRIBUTE   MS-CHAP-CPW-1      3  octets
ATTRIBUTE   MS-CHAP-CPW-2      4  integer
ATTRIBUTE   MS-CHAP-LM-Enc-PW  5  integer
ATTRIBUTE   MS-CHAP-NT-Enc-PW  6  octets

VALUE       MS-CHAP-Response    Not-Allowed  0
VALUE       MS-CHAP-Error       Allowed      1
VALUE       MS-CHAP-CPW-1       Required     2

END-VENDOR Microsoft
```

radclient - A command line tool to send packets to a RADIUS server and show reply.

Command line syntax:

```
radclient [-c count] [-f file] [-i id] [-n num_requests_per_second] [-p num_requests_in_parallel] [-r num_retries] [-s] [-t timeout] [-qx] server {acct|auth|status|disconnect} secret
```

-c count

Send each packet count times.

-f file

File to read the attribute/value pairs from. If this is not specified, they are read from stdin.

-i id

Use id as the RADIUS request Id.

-n num_requests_per_second

Send num requests per second, evenly spaced over time. By default (Default value is 0), the requests are sent as fast as possible. This option allows you to slow down the rate at which radclient sends requests.

-p num_requests_in_parallel

Send num requests in parallel, without waiting for a response for each one. By default (Default value is 1), radclient sends the first request listed in a file, waits for the response, and once the response is received, sends the second request. This option allows you to send many requests at a time. Once num_requests_in_parallel are sent, radclient waits for all of the responses to arrive (or for the requests to time out), before sending any more packets.

-r num_retries

Try to send each packet num_retries times, before giving up on it. The default is 3.

-s Print out debug information.

-t timeout

Wait timeout seconds before deciding that the NAS has not responded to a request, and re-sending the packet. The default timeout is 3.

-q Go to quiet mode, and do not print out anything.

-x Print out extra debugging information.

server[:port]

The hostname or IP address of the remote server. Optionally a UDP port can be specified. If no UDP port is specified, 1813 for accounting packets and 1812 for all other requests.

acct | auth | status | disconnect

Use auth to send an authentication packet (Access-Request), acct to send an accounting packet (Accounting-Request), status to send an status packet (Status-Server), or disconnect to send a disconnection request. Instead of these values, you can also use a decimal code here.

code 1 is Access-Request.

code 4 is Accounting-Request.

code 12 is Status-Server

code 40 is Disconnection-Request.

secret The shared secret for this client. It needs to be defined on the radius server side too, for the IP address you are sending the radius packets from.

Example:

1.A sample session that queries the remote server for a PAP Access-Request

```
"C:\Program Files\RadUtils\RadiusTest\radclient.exe" -c 1 -f "test.txt" -i 0 -n 0 -p 1 -r 3 -t 3 -sx 192.168.16.100:1812 auth testing123
```

where attribute/value pairs from test.txt is:

User-Name = "test"

User-Password= "111111"

2.A sample session that queries the remote server for a CHAP Access-Request

```
"C:\Program Files\RadUtils\RadiusTest\radclient.exe" -c 1 -f "test.txt" -i 0 -n 0 -p 1 -r 3 -t 3 -sx 192.168.16.100:1812 auth testing123
```

where attribute/value pairs from test.txt is:

User-Name = "test"

CHAP-Password= "111111"

3.A sample session that queries the remote server for a PAP Access-Request

```
"C:\Program Files\RadUtils\RadiusTest\radclient.exe" -c 1 -i 0 -n 0 -p 1 -r 3 -t 3 -sx 192.168.16.100:1812 auth testing123
```

where attribute/value pairs read from stdin.

```
E:\Program Files\RadUtils\RadiusTest>radclient -c 1 -i 0 -n 0 -p 1 -r 3 -t 3
-sx 192.168.16.100:1812 auth testing123
User-Name="test"
Password=111111
User-Name=test2
Password=111111
^Z
Info:Sending Access-Request of id 0 to 192.168.16.100:1812
      User-Name = "test"
      Password = "111111"
```

After you have input attribute/value pairs, you must input CTRL+Z (standard input EOF) to end the attribute/value pairs input, and press ENTER to run radclient.

radeapclient - A command line tool to send packets to a RADIUS server and show reply.

Command line syntax:

```
radeapclient [-c count] [-f file] [-i id] [-r num_retries] [-s] [-t timeout] [-qx]  
server {acct|auth|status|disconnect} secret
```

-c count

Send each packet count times.

-f file

File to read the attribute/value pairs from. If this is not specified, they are read from stdin.

-i id

Use id as the RADIUS request Id.

-r num_retries

Try to send each packet num_retries times, before giving up on it. The default is 3.

-s Print out debug information.

-t timeout

Wait timeout seconds before deciding that the NAS has not responded to a request, and re-sending the packet. The default timeout is 3.

-q Go to quiet mode, and do not print out anything.

-x Print out extra debugging information.

server[:port]

The hostname or IP address of the remote server. Optionally a UDP port can be specified. If no UDP port is specified, 1813 for accounting packets and 1812 for all other requests.

acct | auth | status | disconnect

Use **auth** to send an authentication packet (Access-Request), **acct** to send an accounting packet

(Accounting-Request), **status** to send an status packet (Status-Server), or **disconnect** to send a

disconnection request. Instead of these values, you can also use a decimal code here.

code 1 is Access-Request.

code 4 is Accounting-Request.

code 12 is Status-Server

code 40 is Disconnection-Request.

secret The shared secret for this client. It needs to be defined on the radius server side too, for the IP address you are sending the radius packets from.

Example:

1.A sample session that queries the remote server for a EAP Access-Request

```
"C:\Program Files\RadUtils\RadiusTest\radeapclient.exe" -c 1 -f "test.txt" -i 0  
-r 3 -t 3 -sx 192.168.16.100:1812 auth testing123
```

where attribute/value pairs from test.txt is:

User-Name = "testcap"

EAP-MD5-Password = "111111"

EAP-Code = Response

EAP-Id = 210

EAP-Type-Identity = "testcap"

Message-Authenticator = 0x00

2.A sample session that queries the remote server for a EAP Access-Request

```
"C:\Program Files\RadUtils\RadiusTest\radeapclient.exe" -c 1 -i 0 -r 3 -t 3 -sx  
192.168.16.100:1812 auth testing123
```

where attribute/value pairs read from stdin.

```
E:\Program Files\RadUtils\RadiusTest>radeapclient -c 1 -i 0 -r 3 -t 3 -sx 1
92.168.16.121 auth testing123

User-Name = "testead"
EAP-MD5-Password = "111111"
EAP-Code = Response
EAP-Id = 210
EAP-Type-Identity = "testead"
Message-Authenticator = 0x00

^Z
```

After you have input attribute/value pairs, you must input CTRL+Z (standard input EOF) to end the attribute/value pairs input, and press ENTER to run radeapclient.

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Radius Test Version 2.5

Many new features are in development. They include:

- EAP-TLS authentication methods support

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