GImageX

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GImageX Homepage

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Introduction

GlmageX is a graphical user interface for the ImageX tool from the Windows Assessment and Deployment Kit (Windows ADK). ImageX is used to capture and apply WIM images for Windows deployments.

GImageX is a native application for the x86 and x64 platforms (Windows XP or later) that will also work in Windows PE (WinPE). There is also a COM component version included (gimagex_com.dll) that implements some of the basic functionality for direct use in languages such as VBScript.

Note: GImageX uses the Microsoft supported WIMGAPI API interface for working with WIM images.

Software License

GlmageX v2

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AppendImage

Captures and appends an image to an existing WIM file.

AppendImage()

Parameters

Set the following properties before calling:

Source	The source folder to capture.		
Destination	The name of the WIM file to capture to.		
ImageName	Name of the image.		
Description	Description of the image.		
DisplayName	Display name of the image (used in Vista setup for display purposes).		
DisplayDescription	Display description of the image (used in Vista setup for display purposes).		
Flags	"", "Ultimate", etc.		
Check	Set to TRUE to add integrity information.		
Verify	Set to TRUE to Verify the data captured.		
Bootable	Set to TRUE to make this image bootable.		

Return Value

Success: Returns 0.

Failure: Returns non-zero.

Remarks

None.

Related

CaptureImage

```
Set objWIM = WScript.CreateObject("GImageX.GImageXCtrl", "objWIM_")
objWIM.Source = "c:\test"
objWIM.Destination = "test.wim"
objWIM.ImageName = "Test WIM"
objWIM.Description = "Test Description"
objWIM.DisplayName = ""
objWIM.DisplayDescription = ""
objWIM.Flags = "Ultimate"
objWIM.Check = TRUE
objWIM.Verify = TRUE
objWIM.Bootable = FALSE
objWIM.AppendImage
WScript.DisconnectObject objWIM
Set objWIM = Nothing
Sub objWIM_Progress(Percent, TimeRemaining)
  WScript.Echo Percent & "% - " & TimeRemaining & " sec(s)"
  ' Abort the operation by using the line below
  'objWim.Abort = TRUE
End Sub
Sub objWIM_ProgressInfo(Info)
  WScript.Echo Info
End Sub
```

ApplyImage

Applies a WIM image to a folder.

ApplyImage()

Parameters

Set the following properties before calling:

Source	The source WIM file to apply.		
Destination	The destination folder to apply the image to.		
ImageIndex	The image index of the image to apply.		
Check	Set to TRUE to check integrity information.		
Verify	Set to TRUE to Verify the data applied.		

Return Value

Success: Returns 0.

Failure: Returns non-zero.

Remarks

None.

Related

AppendImage, CaptureImage

```
Set objWIM = WScript.CreateObject("GImageX.GImageXCtrl", "objWIM_")
objWIM.Source = "test.wim"
objWIM.Destination = "c:\test"
objWIM.ImageIndex = 1
objWIM.Check = TRUE
objWIM.Verify = TRUE
objWIM.ApplyImage
WScript.DisconnectObject objWIM
Set objWIM = Nothing
Sub objWIM_Progress(Percent, TimeRemaining)
  WScript.Echo Percent & "% - " & TimeRemaining & " sec(s)"
  ' Abort the operation by using the line below
  'objWim.Abort = TRUE
End Sub
Sub objWIM_ProgressInfo(Info)
  WScript.Echo Info
End Sub
```

CaptureImage

Captures an image to an existing WIM file.

CaptureImage()

Parameters

Set the following properties before calling:

Source	The source folder to capture.		
Destination	The name of the WIM file to capture to.		
ImageName	Name of the image.		
Description	Description of the image.		
Display Name of the image (used in Vista setup display purposes).			
DisplayDescription	Display description of the image (used in Vista setup for display purposes).		
Flags	"", "Ultimate", etc.		
Check	Set to TRUE to add integrity information.		
Verify	Set to TRUE to Verify the data captured.		
Bootable Set to TRUE to make this image bootable.			

Return Value

Success: Returns 0.

Failure: Returns non-zero.

Remarks

None.

Related

AppendImage

```
Set objWIM = WScript.CreateObject("GImageX.GImageXCtrl", "objWIM_")
objWIM.Source = "c:\test"
objWIM.Destination = "test.wim"
objWIM.ImageName = "Test WIM"
objWIM.Description = "Test Description"
objWIM.DisplayName = ""
objWIM.DisplayDescription = ""
objWIM.Flags = "Ultimate"
objWIM.Check = TRUE
objWIM.Verify = TRUE
objWIM.Bootable = FALSE
objWIM.CaptureImage
WScript.DisconnectObject objWIM
Set objWIM = Nothing
Sub objWIM_Progress(Percent, TimeRemaining)
  WScript.Echo Percent & "% - " & TimeRemaining & " sec(s)"
  ' Abort the operation by using the line below
  'objWim.Abort = TRUE
End Sub
Sub objWIM_ProgressInfo(Info)
  WScript.Echo Info
End Sub
```

GetImageInfo

Retrieves information about an image.

GetImageInfo()

Parameters

Set the following properties before calling:

Source	The source WIM file.
ImageIndex The image index for the required image.	

Return Value

Success: Returns 0.

Failure: Returns non-zero.

After a successful call the following properties will contain information:

XML

ImageName

Description

Flags

FileCount

DirCount

Remarks

None.

Related

GetWIMInfo

```
Set objWIM = WScript.CreateObject("GImageX.GImageXCtrl")
objWIM.Source = "test.wim"
objWIM.ImageIndex = 1
objWIM.GetImageInfo
WScript.Echo objWIM.XML
WScript.Echo objWIM.ImageName
WScript.Echo objWIM.Description
WScript.Echo objWIM.DisplayName
WScript.Echo objWIM.DisplayDescription
WScript.Echo objWIM.Flags
WScript.Echo objWIM.FileCount
WScript.Echo objWIM.DirCount

Set objWIM = Nothing
```

GetOpenFileName

Gets an existing filename.

GetOpenFileName()

Parameters

None.

Return Value

Success: Returns 0.

Failure: Returns non-zero.

After a successful call the following properties will contain information:

FileName

Remarks

None.

Related

GetSaveFileName

Example

Set objWIM = WScript.CreateObject("GImageX.GImageXCtrl")

objWIM.GetOpenFileName WScript.Echo objWIM.FileName

Set objWIM = Nothing

GetSaveFileName

Gets a filename to save to.

GetSaveFileName()

Parameters

None.

Return Value

Success: Returns 0.

Failure: Returns non-zero.

After a successful call the following properties will contain information:

FileName

Remarks

None.

Related

GetOpenFileName

Example

Set objWIM = WScript.CreateObject("GImageX.GImageXCtrl")

objWIM.GetSaveFileName WScript.Echo objWIM.FileName

Set objWIM = Nothing

GetWIMInfo

Retrieves information about a WIM file.

GetWIMInfo()

Parameters

Set the following properties before calling:

Source The source WIM file.

Return Value

Success: Returns 0.

Failure: Returns non-zero.

After a successful call the following properties will contain information:

XML

ImageCount BootIndex

Remarks

None.

Related

GetWIMInfo

Set objWIM = WScript.CreateObject("GImageX.GImageXCtrl")

objWIM.Source = "test.wim"

objWIM.GetWIMInfo

WScript.Echo objWIM.XML

WScript.Echo objWIM.ImageCount

WScript.Echo objWIM.BootIndex

Set objWIM = Nothing

Properties Reference

Below is an list of all the properties available in GImageX.

Property	Read/Write	Datatype	Description
Abort	Write	BOOL	Setting this to TRUE will abort an imaging operation during a Progress event.
BootIndex	Read	LONG	The image index of the bootable image in a WIM file as returned by GetWIMInfo. 0 if none.
Bootable	Write	BOOL	Sets the image that is captured will be the bootable image in a WIM file.
Check	Write	BOOL	Adds integrity check information to a WIM file.
Compression	Write	LONG	Sets the compression level for a capture operation. 0=none, 1=fast, 2=highest.
Config	Write	STRING	The filename of a wimscript.ini file to use during a CaptureImage or AppendImage operation.
Description	Read/Write	STRING	Description of a WIM image.
Destination	Read/Write	STRING	The destination file/folder for a imaging operation.
DirCount	Read	LONG	Number of directories in a WIM image as returned by GetImageInfo.
DisplayDescription	Read/Write	STRING	Display description of a

			WIM image.
DisplayName	Read/Write	STRING	Display name of a WIM image (only usually seen during Vista setup when you choose an image).
FileCount	Read	LONG	Number of files in a WIM image as returned by GetImageInfo.
FileName	Read	LONG	The filename returned by GetOpenFileName and GetSaveFileName.
Flags	Read/Write	STRING	The flags to use in a CaptureImage operation, or as returned by GetImageInfo.
ImageIndex	Write	LONG	The image index for a ApplyImage or GetImageInfo operation.
ImageCount	Read	LONG	Number of directories in a WIM image as returned by GetWIMInfo.
ImageName	Read/Write	STRING	Name of a WIM image.
Source	Read/Write	STRING	The source file/folder for a imaging operation.
Temp	Write	STRING	The temporary folder to use during a Capturelmage or AppendImage operation.
Verify	Write	BOOL	Verify during imaging operations.
XML	Read	STRING	The raw XML information as returned by GetImageInfo or GetWIMInfo.

History

Here is the public history for GImageX.

22nd January 2014 - v2.1.1

GImageX:

- Removed spurious INFO messages with Err=282. These are just warnings that extended attributes are not captured. This is how DISM works but it suppresses the messages. The messages were causing confusion.
- Error and warning messages now provide the string description rather than an error code.

GImageX COM:

• Updated to work with the Windows 8.1 and Windows ADK 8.1 versions.

Note: Please use this version of GImageX with the Windows ADK for Windows 8.1.

21st November 2013 - v2.1.0

GImageX:

• Updated to work with the Windows 8.1 and Windows ADK 8.1 versions.

GImageX COM:

• Updated to work with the Windows 8.1 and Windows ADK 8.1 versions.

Note: Please use this version of GImageX with the Windows ADK for

Windows 8.1.

19th September 2009 - v2.0.17

GImageX:

• Updated to work with the Windows 7 and WAIK 2.0 RTM versions.

GImageX COM:

• Updated to work with the Windows 7 and WAIK 2.0 RTM versions.

Note: Please use this version of GImageX with the Windows AIK for Windows 7.

11th May 2009 - v2.0.16 BETA

GImageX:

• Updated to work with the Windows 7 and WAIK 2.0 RC versions.

GImageX COM:

• Updated to work with the Windows 7 and WAIK 2.0 RC versions.

Note: Please only use this beta version of GImageX with WAIK 2.0 beta.

<u>3rd February 2009 - v2.0.15 BETA</u>

GImageX:

- Updated to work with the Windows 7 and WAIK 2.0 BETA versions.
- Mount operations now use the progress dialog as mounting from the network or USB could sometimes take a while and it would look like

GImageX had crashed.

Added support for the NORPFIX image capture option.

GImageX COM:

Updated to work with the Windows 7 and WAIK 2.0 BETA versions.

2nd October 2008 - v2.0.14

 Added the ability to add/change DisplayName and DisplayDescription XML tags. These determine how images are displayed within Windows Setup.

4th July 2008 - v2.0.13

GImageX:

Captures are now correctly generating the <WINDOWS> XML tags.

GImageX COM:

Captures are now correctly generating the <WINDOWS> XML tags.

<u>26th March 2008 - v2.0.12</u>

GImageX:

Compiled against the latest WAIK 1.1 to ensure compatibility.

GImageX COM:

Compiled against the latest WAIK 1.1 to ensure compatibility.

20th Jan 2008 - v2.0.11

GImageX:

• No changes.

GImageX COM:

• Due to troubles in HTAs, renamed the properties: **Image** to **ImageIndex**, and **Name** to **ImageName**.

1st Jan 2008 - v2.0.10 BETA

GImageX:

• No changes.

GImageX COM:

• Allowed WScript.ConnectObject type operations to work.

27th Dec 2007 - v2.0.9 BETA

GImageX:

• No changes.

GImageX COM:

• Fixed MSVC runtime dependency - really!

21st Dec 2007 - v2.0.8 BETA

GImageX:

• No changes.

GImageX COM:

- Added methods: GetOpenFileName, GetSaveFileName
- Added methods: GetWIMInfo, GetImageInfo

20th Dec 2007 - v2.0.7 BETA

GImageX:

No changes.

GImageX COM:

COM component no longer need Visual Studio runtimes installed.
 Oops!

17th Dec 2007 - v2.0.6 BETA

GImageX:

• No changes.

GImageX COM:

 Added a COM component for use in VBScript/other applications, currently just Capture/Append/Apply are implemented - testing appreciated.

15th Dec 2007 - v2.0.5 BETA

• Image selection screen was not working properly when an image did not contain both a name and description

2nd Dec 2007 - v2.0.4 BETA

• Improved mount/unmount interface.

2nd Dec 2007 - v2.0.3 BETA

• Improved image selection interface.

1st Dec 2007 - v2.0.2 BETA

- Added Delete tab.
- Added Export tab.
- Some internal improvements to XML handling.

16th Oct 2007 - v2.0.0 BETA

- Added Change tab
- Added Mount tab
- Fixed bug with Capture+verify (wasn't verifying).
- Check option added to Apply.
- Automatic temp folder chosen during capture now consistent with imagex.exe

15th Oct 2007 - v2 ALPHA

- Added /check options.
- Supports a wimscript.ini config file for exclusions.
- Allows manual setting of the temporary directory for capture.

12th Oct 2007 - v2 ALPHA

• Initial native C++ Version using the WIM API directly.

2006 - GlmageX v1 (Autolt wrapper)