

HP Server Automation

for the HP-UX, IBM AIX, Red Hat Enterprise Linux, Solaris, SUSE Linux Enterprise Server, VMware, and Windows® operating systems

Software Version: 7.50

Technical Note: MBSA 2.1 Installation for SA 7.50

Document Release Date: August 2009
Software Release Date: September 2008



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Document Changes

Date	Version	Changes
August 2009	7.50	<ul style="list-style-type: none">• Added Windows Update Agent (WUA) 3.0 Requirement
	7.50	<ul style="list-style-type: none">• Changed Windows Update Agent 3.0 download requirements
	7.50	<ul style="list-style-type: none">• Changed fresh install file locations
	7.50	<ul style="list-style-type: none">• Added MBSA 2.0.1 to 2.1 upgrade procedure

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Technical Note: MBSA 2.1 Installation for SA 7.50

Windows Patch Management Requirements

The SA Windows Patch Management feature requires that, before running the Installer, you obtain several files from the Microsoft software download repository and copy them to a directory that will be accessible during the SA installation. During the installation process, the Installer will prompt you to enter the fully qualified path to the Microsoft files in this directory and will fail if the files do not exist at the specified location.

Supported Platforms

- Windows 2000
- Windows XP
- Windows Server 2003 x86 and x64
- Windows Server 2008 x86 and x64
- Windows Server 2008 x86 Server Core and Windows 2008 x64 Server Core



In order to apply patches to Managed Servers running Windows Server 2000 SP4 and Windows Server 2003 RTM, you must first ensure that the Microsoft update MS04-011 (or a subsequent update) has been applied to those servers. This update is required for MBSA 2.1 to run properly.

Requirements

The Managed Servers meet the following Windows patching requirements:

- Windows Installer 3.1 must be installed
- MSXML 3+ must be installed
- Windows Update Agent (WUA) 3.0 must be installed
- The Windows (Automatic) Update service must *not* be disabled but must be set to *never* check for updates.



As of Windows Server 2008, the Automatic Update service was renamed the Windows Update service.

Installing MBSA 2.1 for SA 7.50

To obtain the required Windows patch management files, perform the following tasks:

1 Obtain the following files from Microsoft:

- `qchain.exe`

The `qchain.exe` utility is a command-line program that chains hotfixes together. When you chain updates, you install multiple updates without restarting the computer between each installation.

To download the package containing `qchain.exe`, search for “`qchain.exe`” at <http://www.microsoft.com>. Install the package on a Windows machine and note the location of the `qchain.exe` file.

- `wsusscn2.cab`

The `wsusscn2.cab` file contains the Microsoft patch database. To download the package containing `wsusscn2.cab`, search for “`wsusscn2.cab`” at <http://www.microsoft.com>.

- `WindowsUpdateAgent30-x86.exe`

The `WindowsUpdateAgent30-x86.exe` file is required by the `mbsacli.exe` utility. To download the package containing Windows Update Agent (WUA) 3.0, search for “`WindowsUpdateAgent30`” at <http://www.microsoft.com>. After downloading the Windows Update Agent 3.0 binary, and before importing to the SA Core, the file should be renamed `WindowsUpdateAgent20-x86.exe`.

- `WindowsUpdateAgent30-x64.exe`

The `WindowsUpdateAgent30-x64.exe` file is required by the `mbsacli.exe` utility. To download the package containing `WindowsUpdateAgent20 x64.exe`, search for “`WindowsUpdateAgent30`” at <http://www.microsoft.com>. After downloading the Windows Update Agent 3.0 binary, and before importing to the SA Core, the file should be renamed `WindowsUpdateAgent20-x64.exe`.

- `mbsacli.exe` (**version 1.2.1**)

Packaged with the MBSA 1.2.1 software, the `mbsacli.exe` utility is a command-line program that performs security scans. To download the package containing MBSA 1.2.1, search for “`MBSA 1.2.1`” at <http://www.microsoft.com>.

After the download, on a Windows machine run `MBSASetup-EN.msi` to install MBSA 1.2.1.

In the directory where you installed MBSA 1.2.1, note the location of the `mbsacli.exe` file. By default, the file is installed here:

```
%program files%\Microsoft Baseline Security Analyzer\mbsacli.exe
```

- `mbsacli.exe` (**version 2.1**)

This file is packaged with the MBSA 2.1 setup file, `MBSASetup-x86-EN.msi`, that you must download by searching for “`MBSA 2.1`” at <http://www.microsoft.com>.

After the download, on a Windows machine run `MBSASetup-x86-EN.msi` to install MBSA 2.1. In the directory where you installed MBSA 2.1, locate the `mbsacli.exe` file. By default, the file is installed here:

```
%program files%\Microsoft Baseline Security Analyzer 2\mbsacli.exe
```

Copy the MBSA version 2.1 `mbsacli.exe` file to a file named `mbsacli20.exe`.



The renaming of the `mbsacli.exe` file is required for legacy reasons. Although the file name has changed, you will be running the MBSA 2.1 version of `mbsacli.exe`.

- `wusscan.dll`

The `wusscan.dll` file is in the directory where you installed MBSA 2.1. By default, the file is here:

```
%program files%\Microsoft Baseline Security Analyzer 2\wusscan.dll
```

2 Install/upgrade MBSA:

Fresh Install

- a Copy the files you obtained in the preceding steps to a directory that will be accessible by the HP BSA Installer during the Software Repository installation. For example, you might copy the files to the following directory:

```
/opsw/win_util
```

- b Verify that the destination directory contains all these files:

```
mbsacli.exe  
mbsacli20.exe  
WindowsUpdateAgent20-x86.exe  
WindowsUpdateAgent20-x64.exe  
qchain.exe  
wsusscn2.cab  
wusscan.dll
```

- c Write down the name of the directory containing the files. When you run the Installer, during the Software Repository installation, you will be prompted to provide the fully qualified directory path. The location you provide will be stored in the parameter, `windows_util_loc`.

These patch management files will be copied to Windows servers during SA Agent deployment.

Upgrade an existing MBSA 2.0.1 Installation

If you have MBSA 2.0.1 installed, you can import the MBSA 2.1 and Windows Update Agent 3.0 binaries using the following procedure:

- a From the SA Client, navigate to **Administration**.
- b Select **Patch Settings**.
- c Under **Patch Utilities**, click `mbsacli20.exe`, then **Import Utility Update** to import the binary.
- d Under **Patch Utilities**, click `wusscan.dll`, then **Import Utility Update** to import the file.
- e Under **Patch Utilities**, click `WindowsUpdateAgent20-x86.exe` or `WindowsUpdateAgent20-x64.exe`, then **Import Utility Update** to import the binary.

- 3 On managed servers with SA 7.50 and older agents, after you import the MBSA 2.1 and Windows Update Agent 3.0 binaries into SA, Windows Update Agent 3.0 must be installed manually. To do this, you can use the distributed script (DSE) feature to invoke the following commands:

```
CALL "%SYSTEMDRIVE%\Program Files\Opware\agent\pylibs\cog\bs_software.bat"
CD "%SYSTEMDRIVE%\Program Files\Opware\agent\bin"
dir WindowsUpdateAgent*.exe
IF EXIST WindowsUpdateAgent20-x64.exe GOTO X64

:X86
WindowsUpdateAgent20-x86.exe /wuforce /quiet /norestart
IF ERRORLEVEL 1 GOTO ERROREND
ECHO WindowsUpdateAgent x86 installed
GOTO END

:X64
WindowsUpdateAgent20-x64.exe /wuforce /quiet /norestart
IF ERRORLEVEL 1 GOTO ERROREND
ECHO WindowsUpdateAgent x64 installed
GOTO END

:ERROREND
ECHO Windows Update Agent installation failed with exit code: %ERRORLEVEL%
EXIT 1

:END
```

- When the Windows Update Agent successfully installs, the script displays the message:
WindowsUpdateAgent x86 installed
or
WindowsUpdateAgent x64 installed
- If the script fails to install the Windows Update Agent, it displays a message similar to:
Windows Update Agent installation failed with exit code: 32
“32” is the exit code most commonly seen when upgrading the Windows Update Agent.
“32” indicates that the Windows Update Agent files are still in use by the system and that you must reboot before the Windows Update Agent can be upgraded.
You may see other exit codes, in which case you can get additional information about the exit code by running the following command from a Windows command window:
net helpmsg <exit_code>
If you need additional help with the Windows Update Agent exit codes, see <http://www.microsoft.com>.



For more information about Windows Patch Management, see the *SA User's Guide: Application Automation*.
