

# Using WMI Scripts with BitDefender Enterprise Manager

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## WHITE PAPER

### BitDefender introduces a new Server Add-on: WMI Scripts Server Add-on

BitDefender introduces a new tool designed to facilitate administrative control over large networks. **BitDefender WMI Scripts Server Add-on** implements tasks based on WMI (Windows Management Instrumentation). These tasks can be executed across the **BitDefender Enterprise Manager** network.

Windows Management Instrumentation is the Microsoft implementation of Web-Based Enterprise Management (WBEM), an initiative to establish standards for accessing and sharing management information over an enterprise network. WMI is WBEM-compliant and provides integrated support for the Common Information Model (CIM), the data model that describes the objects that exist in a management environment.

For more information on WMI please visit:

[http://msdn.microsoft.com/library/default.asp?url=/library/en-us/wmisdk/wmi/wmi\\_start\\_page.asp](http://msdn.microsoft.com/library/default.asp?url=/library/en-us/wmisdk/wmi/wmi_start_page.asp)

Basically, this new feature allows running of script tasks across the **BitDefender Enterprise Manager** network. New task templates were added to BitDefender Enterprise Manager (available after installing **BitDefender WMI Scripts Server Add-on**).

The tasks can be deployed only on machines with WMI Services installed. Currently, WMI is included on machines running Microsoft Windows 2000, Windows XP, or Windows ME.

### Install WMI on Windows 98/NT

BitDefender offers a easy way to install WMI on stations running Windows 98 or Windows NT4.0. The WMI installation package is located in the "WMI Setup" folder, from the main **BitDefender Enterprise Manager** installation folder. This package should be installed on every Windows 98/NT station where WMI support is needed.

This package can be also downloaded from the Microsoft site:

<http://www.microsoft.com/downloads/details.aspx?FamilyID=afe41f46-e213-4cbf-9c5b-fbf236e0e875&displaylang=en>

## Requirements

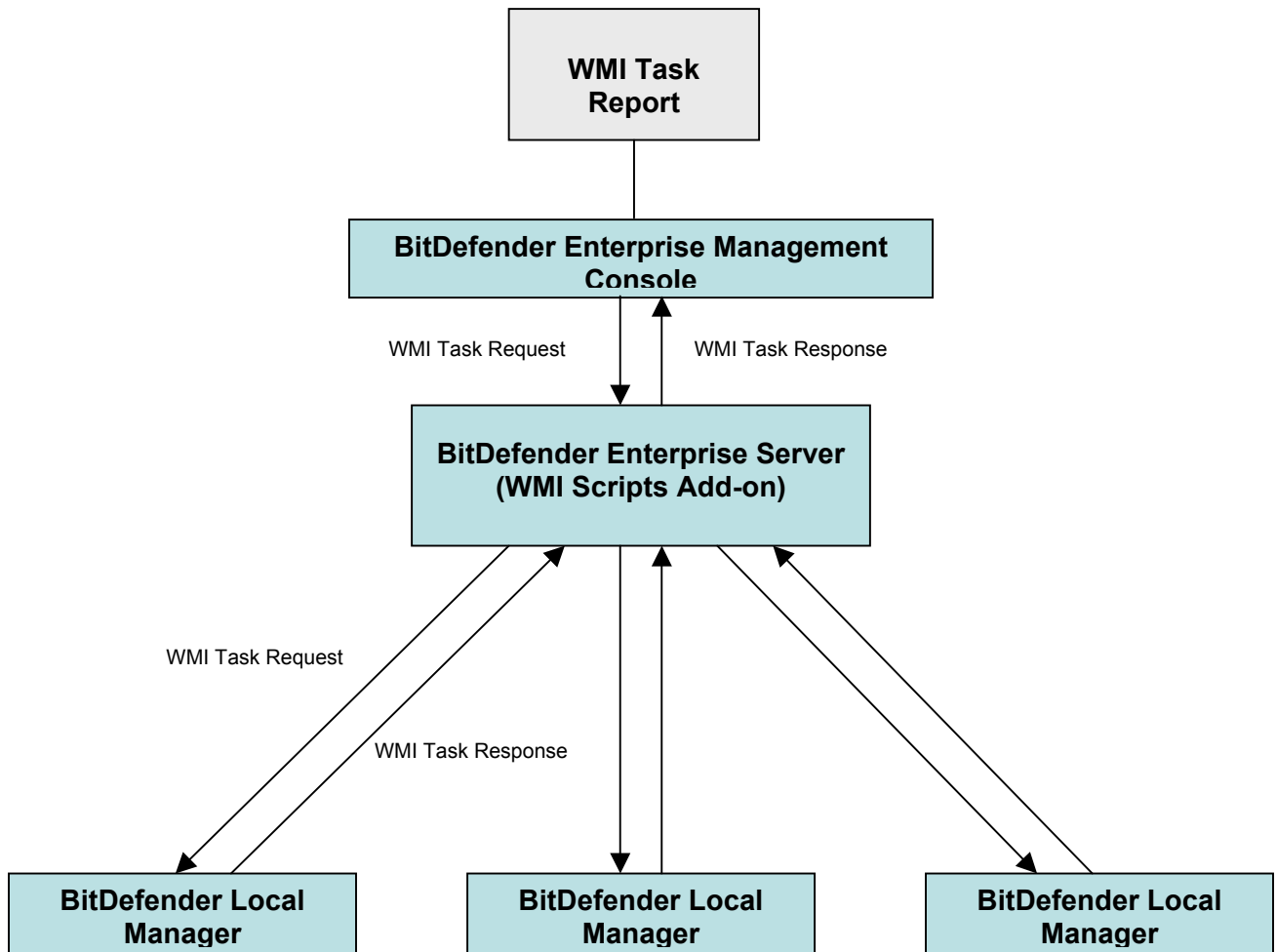
**BitDefender WMI Scripts Server Add-on** requires **BitDefender Enterprise Manager v2.2** or higher. The new **BitDefender Local Manager** is responsible for running the WMI tasks on each machine. However, there are some scripts that will not run on all Windows platforms (especially Windows 98). A table of supported scripts cross-referenced with OS versions follows:

**Available WMI scripts and compatibility**

Script	Win98	WinME	WinNT	Win2000	WinXP	Win2003
<b>COMPUTER MANAGEMENT</b>						
Enumerate Computer Startup Programs	YES	YES	YES	YES	YES	YES
Enumerate Computer Startup Information	YES	YES	YES	YES	YES	YES
Enumerate Installed Software (Windows Installer)	YES	YES	YES	YES	YES	NO
Enumerate Start Menu Items	YES	YES	YES	YES	YES	YES
Remove Software	YES	YES	YES	YES	YES	YES
Enumerate Installed Hot Fixes	NO	NO	YES	YES	YES	YES
Enumerate WMI Settings	YES	YES	YES	YES	YES	YES
Enumerate Motherboard Properties	YES	YES	YES	YES	YES	YES
Enumerate Monitor Properties	YES	YES	YES	YES	YES	YES
Enumerate Physical Memory Properties	YES	YES	YES	YES	YES	YES
Enumerate Processor Information	YES	YES	YES	YES	YES	YES
Enumerate Video Controller Properties	YES	YES	YES	YES	YES	YES
Get the Latest Installed Service Pack	YES	YES	YES	YES	YES	YES
Retrieve Operating System Properties	NO	NO	YES	YES	YES	YES
Retrieve System Information	YES	YES	YES	YES	YES	YES
<b>DISK AND FILE SYSTEMS</b>						
Enumerate Available Disk Space	YES	NO	YES	YES	YES	YES
Enumerate Logical Disk Drive Properties	YES	YES	YES	YES	YES	YES
Enumerate Page File Properties	YES	YES	YES	YES	YES	YES
<b>DISK AND FILE SYSTEMS</b>						
Enumerate Network Shares	YES	YES	YES	YES	YES	YES
<b>PROCESSES</b>						
Terminate a Process	YES	YES	YES	YES	YES	YES
Enumerate Computer Processes	NO	NO	NO	NO	YES	YES
<b>USERS AND GROUPS</b>						
Enumerate Computer Users	NO	NO	NO	YES	YES	YES
<b>SERVICES</b>						
Retrieve Service Status	NO	NO	YES	YES	YES	YES
<b>OTHERS</b>						
Checking Scripting Environment	YES	YES	YES	YES	YES	YES

## WMI Scripts and BitDefender Enterprise Manager

With the addition of WMI Scripts to **BitDefender Enterprise Manager**, network administrators have a powerful tool designed to facilitate administrative control over large networks.



WMI Scripts facilitates network audit, by providing the administrators with useful information about client workstations. The key benefit of using **BitDefender WMI Scripts Server Add-on** is that it centralizes all the information into one document, letting the admin focus on decision-making,

By integrating WMI scripts into **BitDefender Enterprise Manager**, scripts don't have to be run separately for each client anymore, nor is it necessary to install/activate DCOM on Windows 98 client stations.

Centralizing scripts look like this:

- Get Latest Service Pack;
- Enumerate Installed Hot Fixes.

### Get Latest Service Pack

If the administrators wish to obtain a list of installed service packs, all they have to do is to run the appropriate WMI task – a report will be generated based on the client stations' responses (see image).

### Enumerate Installed Hot Fixes

If the administrators wish to obtain a list of installed hot fixes, all they have to do is to run the appropriate WMI task – a report will be generated based on the client stations' responses (see image below).

#### Latest Service Pack

<b>bdent1</b>	12/04/2003 - 11:27:44	1.0
<b>bdent2</b>	12/04/2003 - 11:26:32	<unknown>
<b>bdent3</b>	12/04/2003 - 11:28:34	1.0
<b>bdent4</b>	12/04/2003 - 11:27:11	6.0
<b>bdent5</b>	12/04/2003 - 11:27:08	4.0
<b>bdent6</b>	12/04/2003 - 11:27:49	1.0
<b>bdent7</b>	12/04/2003 - 11:27:25	1.0
<b>bdent8</b>	12/04/2003 - 11:26:53	1.0
<b>bdent9</b>	12/04/2003 - 11:27:38	<unknown>
<b>bdent10</b>	12/04/2003 - 11:27:51	1.0

#### Installed Hot Fixes

##### bdent1

12/04/2003 - 11:28:29 Windows XP Hotfix (SP2) [See Q323255 for more information]  
Hot Fix ID : Q323255  
Install Date :  
Installed by : bdent\_user

Windows XP Hotfix (SP2) Q327979  
Hot Fix ID : Q327979  
Install Date :  
Installed by : bdent\_user

##### bdent3

12/04/2003 - 11:27:10 Windows XP Hotfix (SP2) [See Q329048 for more information]  
Hot Fix ID : Q329048  
Install Date :  
Installed by : bdent\_user

Windows XP Hotfix (SP2) [See Q329115 for more information]  
Hot Fix ID : Q329115  
Install Date :  
Installed by : bdent\_user

Windows XP Hotfix (SP2) Q329170  
Hot Fix ID : Q329170  
Install Date :  
Installed by : bdent\_user

##### bdent4

12/04/2003 - 11:29:04 Windows XP Hotfix (SP2) [See Q329048 for more information]  
Hot Fix ID : Q329048  
Install Date :  
Installed by : bdent\_user