IBM Endpoint Manager Version 9.1

Patch Management for HP-UX User's Guide



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Note

Before using this information and the product it supports, read the information in "Notices" on page 17.

This edition applies to version 9, release 1, modification level 0 of IBM Endpoint Manager (product number 5725-C45) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Overview

IBM[®] Endpoint Manager Patch Management for HP-UX keeps your clients current with the latest updates and service packs.

For each new patch or update that becomes available, Endpoint Manager releases a Fixlet[®] that can identify and remediate all the computers in your enterprise that need it. With a few keystrokes, the Endpoint Manager Console Operator can apply the patch to all the relevant computers and visualize its progress as it deploys throughout the network. The Endpoint Manager agent checks the operating system version, file versions, the language of the system and other relevant factors to determine when and if a patch is necessary.

Using Fixlets, you can manage large numbers of updates and patches with comparative ease, enabling automated, highly targeted deployment on any schedule that you want. Large downloads can be phased to optimize network bandwidth and the entire deployment process can be monitored, graphed, and recorded for inventory or audit control.

Supported platforms and updates

Endpoint Manager Patch Management for HP-UX supports various HP-UX versions and updates to ensure that your endpoints are protected.

Fixlet Site Name	Supported Platform	Type of Update
Patches for HP-UX	HP-UX 11.11 (HP-UX 11i Version 1)	BUNDLE11i patch bundle Feature Enablement Pack
L I I I I I I I I I I I I I I I I I I I	HP-UX 11.23 (HP-UX 11i Version 2)	• Gold Quality Pack patch
	HP-UX 11.31 (HP-UX 11i Version 3)	bundleHardware Enablement Pack patch bundle
		Quality Pack patch bundle

Table 1. Supported platforms and patches for the Patch Management for HP-UX

Chapter 2. Setup

Setting up your environment for patch management.

Site subscription

Sites are collections of Fixlet messages that are created internally by you, by IBM, or by vendors.

Subscribe to a site to access the Fixlet messages to patch systems in your deployment.

You can add a site subscription by acquiring a Masthead file from a vendor or from IBM or by using the Licensing Dashboard. For more information about subscribing to Fixlet sites, see the *IBM Endpoint Manager Installation Guide*.

For more information about sites, see the *IBM Endpoint Manager Console Operator's Guide*.

Download plug-ins

Download plug-ins are executable programs that download a specified patch from the website of the patch vendor. To ease the process of caching, Fixlets have an incorporated protocol that uses download plug-ins.

For the Fixlet to recognize the protocol, the related download plug-in must be registered. You must use the Manage Download Plug-ins dashboard to register the download plug-in. After you register the plug-in, you can run the Fixlets to download, cache, and deploy patches from the IBM Endpoint Manager console.

If you already registered the plug-in, you can use the Manage Download Plug-ins dashboard to run the update. You must use the dashboard also to unregister and configure the download plug-in. For more information about the dashboard, see the following topics.

Note: Use the official mirror server configuration when you plan to download large amounts of packages. Specify the mirror server URL and credentials during the download plug-in registration or configuration to avoid being locked out of your account.

Note: If you install the download plug-in on relays, it is suggested that you also install it on the server.

Manage Download Plug-ins dashboard

Use the Manage Download Plug-ins dashboard to oversee and manage download plug-ins in your deployment.

You can use the Manage Download Plug-ins dashboard to register, unregister, configure, and upgrade the download plug-ins for different patch vendors. For more information about these features, see the following topics.

You must subscribe to the Patching Support site to gain access to this dashboard. To view the Manage Download Plug-ins dashboard, go to **Patch Management domain** > **All Patch Management** > **Dashboards** > **Manage Download Plug-ins**.

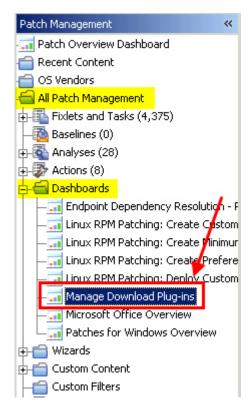


Figure 1. Patch Management navigation tree

The dashboard displays all the servers and windows-only relays in your deployment. Select a server or relay to view all the plug-ins for that computer. The dashboard shows you also the version and status for each plug-in in one consolidated view.

	lanage	Download	Plug-ins
--	--------	----------	----------

Manage Download Plug-ins

You can use this dashboard to manage download plug-ins for different vendor sites on servers and relays.

Select a server or relay to view the applicable download plug-ins.

		🔎 Computer N
Name	Operating System	Type Encryption Er
ACROBATX-XP-X64	WinXP-2003 5.2.3790	Relay Yes
TEM-NW-BESSRV	Win2008R2 6.1.7600	Server Yes
Plug-ins		
Register	er Configure Upgrade	Plug-in Nam
Plug-in Name	Plug-in Versi	on Status
Plug-in Name AIX Plug-in	Plug-in Versi 1.8.0.0	New Version Available
AIX Plug-in CentOS Plug-in	1.8.0.0	New Version Available
AIX Plug-in CentOS Plug-in HP-UX Plug-in	1.8.0.0 N/A	New Version Available Not Supported
AIX Plug-in	1.8.0.0 N/A 2.0.0.0	New Version Available Not Supported Up-To-Date

Figure 2. Manage Download Plug-ins dashboard

A plug-in can be in one of the following states:

- Not Installed
- New Version Available
- Up-To-Date
- · Not Supported

Note: CentOS and SUSE Linux download plug-ins are not supported in relays.

The dashboard has a live keyword search capability. You can search based on the naming convention of the servers, relays, and plug-ins.

Registering the HP-UX download plug-in

Use the Manage Download Plug-ins dashboard to register the download plug-in for HP-UX.

You must complete the following tasks:

- Subscribe to the **Patching Support** site to gain access to the Manage Download Plug-ins dashboard.
- Enable the **Encryption for Clients** Fixlet on servers and relays for which you want to register the download plug-in.
- Activate the Encryption Analysis for Clients analysis and Download Plug-in Versions analysis.

R

When you register the download plug-in on a computer without the plug-in, the plug-in is automatically installed and the configuration file is created.

If the download plug-in is already installed on the computer, the configuration file is overwritten.

- From the Patch Management domain, click All Patch Management > Dashboards > Manage Download Plug-ins dashboard.
- 2. From the Servers and Relays table, select the server or relay on which the download plug-in is to be registered.
- 3. From the Plug-ins table, select HP-UX Plug-in.
- 4. Click Register. The Register HP-UX Plug-in wizard displays.

Register HP-UX Plug-in				
This wizard installs and configures the HP-UX Plug-in.				
Existing configurations are over	written.			
HF	^o Credentials			
HP Username	*			
HP Password	*			
Confirm HP Password	*			
Ргоху	Server Settings			
Proxy URL	http://proxy.example.com/proxy			
Proxy Username				
Proxy Password				
Confirm Proxy Password				
OK Cancel				

Figure 3. Register HP-UX download plug-in wizard

- 5. Enter the HP credentials that you use to log on to the HP Support site.
 - **HP** Username

Your HP account user name to the HP Support site. It must have a valid support identifier to download patches.

HP Password

Your HP account password to the HP Support site.

Confirm HP Password

Your HP account password for confirmation.

6. Optional: Enter the proxy parameters if the downloads must go through a proxy server.

Proxy URL

The URL of your proxy server. It must be a well-formed URL, which contains a protocol and a host name. The URL is usually the IP address or DNS name of your proxy server and its port, which is separated by a colon. For example: http://192.168.100.10:8080.

Proxy Username

Your proxy user name if your proxy server requires authentication. It is usually in the form of domain\username.

Proxy Password

Your proxy password if your proxy server requires authentication.

Confirm Proxy Password

Your proxy password for confirmation.

- 7. Click **OK**. The Take Action dialog displays.
- 8. Select the target computer.
- 9. Click OK.

You successfully registered the HP-UX download plug-in.

Unregistering the HP-UX download plug-in

Use the Manage Download Plug-ins dashboard to unregister the download plug-in for HP-UX.

- From the Patch Management domain, click All Patch Management > Dashboards > Manage Download Plug-ins dashboard.
- 2. From the Servers and Relays table, select the server or relay on which the download plug-in is to be unregistered.
- 3. From the Plug-ins table, select HP-UX Plug-in.
- 4. Click Unregister.

Plug-ins Register Unregister Configure Upgrade Plug-in Name				
Plug-in Name	Plug-in Version	Status		
AIX Plug-in	2.0.0.0	Up-To-Date		
CentOS Plug-in	N/A	Not Supported		
HP-UX Plug-in	2.0.0.0	Up-To-Date		
RedHat Plug-in	2.0.0.0	Up-To-Date		
Solaris Plug-in	2.0.0.0	Up-To-Date		
SUSE Plug-in	N/A	Not Supported		

Figure 4. Unregister the HP-UX download plug-in

The Take Action dialog displays.

- 5. Select the target computer.
- 6. Click OK.

You successfully unregistered the HP-UX download plug-in.

Configuring the HP-UX download plug-in

Use the Manage Download Plug-ins dashboard to configure the download plug-in for HP-UX.

You might want to take note of your existing configuration for the download plug-in. Existing configurations are overwritten when you configure the download plug-in.

- From the Patch Management domain, click All Patch Management > Dashboards > Manage Download Plug-ins dashboard.
- 2. From the Servers and Relays table, select the server or relay on which the download plug-in is to be configured.
- 3. From the Plug-ins table, select HP-UX Plug-in.
- 4. Click **Configure**. The Configure HP-UX Plug-in wizard displays.

Configure HP-UX Plug-in		
This wizard configures the HP-	UX Plug-in.	
Existing configurations are ove	rwritten.	
н	P Credentials	
HP Username	*	
HP Password	*	
Confirm HP Password	*	
Prox	y Server Settings	
Proxy URL	http://proxy.example.com/proxy	
Proxy Username		
Proxy Password		
Confirm Proxy Password		
OK Cancel		

Figure 5. Configure HP-UX download plug-in wizard

5. Enter the HP credentials that you use to log on to the HP Support site.

HP Username

Your HP account user name to the HP Support site. It must have a valid support identifier to download patches.

HP Password

Your HP account password to the HP Support site.

Confirm HP Password

Your HP account password for confirmation.

6. Optional: Enter the proxy parameters if the downloads must go through a proxy server.

Proxy URL

The URL of your proxy server. It must be a well-formed URL, which contains a protocol and a host name. The URL is usually the IP address or DNS name of your proxy server and its port, which is separated by a colon. For example: http://192.168.100.10:8080.

Proxy Username

Your proxy user name if your proxy server requires authentication. It is usually in the form of domain\username.

Proxy Password

Your proxy password if your proxy server requires authentication.

Confirm Proxy Password

Your proxy password for confirmation.

- 7. Click **OK**. The Take Action dialog displays.
- 8. Select the target computer.
- 9. Click OK.

You successfully configured the HP-UX download plug-in.

Migrating the HP-UX download plug-in

You must migrate the download plug-in if the plug-in version is earlier than 2.0.0.0. You only need to do this once. The download plug-in is upgraded to the latest version after migration.

You might want to take note of your existing configuration for the download plug-in. Existing configurations are overwritten when you migrate the download plug-in.

- From the Patch Management domain, click All Patch Management > Dashboards > Manage Download Plug-ins dashboard.
- 2. From the Servers and Relays table, select the server or relay on which the download plug-in is to be migrated.
- 3. From the Plug-ins table, select HP-UX Plug-in.
- 4. Click Migrate. The Migrate HP-UX Plug-in wizard displays.
- 5. Enter the HP credentials that you use to log on to the HP Support site.

HP Username

Your HP account user name to the HP Support site. It must have a valid support identifier to download patches.

HP Password

Your HP account password to the HP Support site.

Confirm HP Password

Your HP account password for confirmation.

6. Optional: Enter the proxy parameters if the downloads must go through a proxy server.

Proxy URL

The URL of your proxy server. It must be a well-formed URL, which contains a protocol and a host name. The URL is usually the IP address or DNS name of your proxy server and its port, which is separated by a colon. For example: http://192.168.100.10:8080.

Proxy Username

Your proxy user name if your proxy server requires authentication. It is usually in the form of domain\username.

Proxy Password

Your proxy password if your proxy server requires authentication.

Confirm Proxy Password

Your proxy password for confirmation.

- 7. Click OK. The Take Action dialog displays.
- 8. Select the target computer on which the download plug-in is to be upgraded.
- 9. Click OK.

You successfully migrated and upgraded the HP-UX download plug-in.

Upgrading the HP-UX download plug-in

Use the Manage Download Plug-ins dashboard to upgrade the download plug-in for HP-UX.

- From the Patch Management domain, click All Patch Management > Dashboards > Manage Download Plug-ins dashboard.
- 2. From the Servers and Relays table, select the server or relay on which the download plug-in is to be upgraded.
- 3. From the Plug-ins table, select HP-UX Plug-in.
- 4. Click Upgrade. The Take Action dialog displays.
- 5. Select the target computer.
- 6. Click OK.

You now have the latest version of the HP-UX download plug-in installed.

HP-UX download cacher overview

The HP_UX Download Cacher is command-line tool that is designed to automatically download and cache HP-UX patch bundles on the IBM Endpoint Manager server to facilitate the deployment of HP-UX Fixlets.

Important: Use the download cacher tool only if you are using an air-gapped environment or if the total number of packages is too large. You can also use the tool if you want to cache all the downloads for faster execution of actions. Otherwise, use the download plug-in. The preferred method of HP-UX patch caching is to register the HP-UX Download Plug-in from the Manage Download Plug-ins dashboard. For more information about registration, see "Registering the HP-UX download plug-in" on page 5.

The tool downloads large files and by default, stores them in the sha1 cache folder. You can also choose to store the files in a different existing directory.

You can access the tool by downloading and running it manually. For more information, see the technote in http://www-01.ibm.com/support/docview.wss?uid=swg21655276.

Chapter 3. Patching Using Fixlets

You can apply HP-UX bundled patches to your deployment by using the available Fixlets in the Patches for HP-UX site.

- Ensure that you are subscribed to the Patches for HP-UX site.
- Register the HP-UX download plug-in. For more information, see "Registering the HP-UX download plug-in" on page 5.
- From the Patch Management domain, click OS Vendors > Hewlett-Packard HP-UX.
- **2**. In the content that is displayed in the list panel, click the Fixlet that you want to deploy. The Fixlet opens in the work area.
- 3. Click the tabs at the top of the window to review details about the Fixlet.

Important: View the readme file concerning the patch bundle before installation.

- 4. Click **Take Action** to deploy the Fixlet. You can also click the appropriate link in the Actions box.
- 5. Optional: You can set more parameters in the Take Action dialog.

For detailed information about setting parameters with the Take Action dialog, see the *IBM Endpoint Manager Console Operator's Guide*.

- 6. Click OK.
- 7. Enter your Private Key Password when necessary.

The action propagates across your network, installing the designated patch on the computers that you specified and according to the schedule that you selected. You can monitor and graph the results of this action to see exactly which computers were remediated to ensure compliance.

Appendix A. Support

For more information about this product, see the following resources:

- http://pic.dhe.ibm.com/infocenter/tivihelp/v26r1/topic/com.ibm.tem.doc_9.1/ welcome/welcome.html
- IBM Endpoint Manager Support site
- IBM Endpoint Manager wiki
- Knowledge Base
- Forums and Communities

Appendix B. Frequently asked questions

Learn from these questions and answers that are designed to help you better understand Patch Management for HP-UX.

What are superseded patches?

Superseded Fixlets are Fixlets that contain outdated packages. If a Fixlet is superseded, then there exists a newer Fixlet with newer versions of the packages. The newer Fixlet ID can be found in the description of the superseded Fixlet.

How do I verify if the download plug-in was registered correctly?

Run a Fixlet with an action task to verify if the download plug-in is registered correctly. Verify that the patch download is successful. Otherwise, you might need to unregister the download plug-in and register it again.

How do I register a download plug-in? Do I use the register download plug-in task or the Manage Download Plug-in dashboard?

To register a download plug-in, you must use the Manage Download Plug-in dashboard in the Patching Support site. Existing register download plug-in tasks are being deprecated. To learn more about plug-in registration, see "Registering the HP-UX download plug-in" on page 5.

Note: You must also use the Manage Download Plug-in dashboard to unregister, configure, and upgrade download plug-ins. The existing unregister and edit download plug-in tasks are being deprecated. For more information about the dashboard, see the topic on *Manage Download Plug-ins dashboard*.

I was expecting the password to be obfuscated, but it's still in clear text. Why is that?

Check if your download plug-in version is earlier than 2.0. If so, you are still using an old version of the download plug-in that stores credentials in clear text. To encrypt credentials, upgrade your download plug-in to version 2.0 or later from the Manage Download plug-ins dashboard in the Patching Support site.

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