

About the Endpoint Module

The ForeScout® Endpoint Module provides connectivity, visibility, and control to network endpoints through the following ForeScout components:

- HPS Agent Manager
- HPS Inspection Engine
- Hardware Inventory Plugin
- Linux Plugin
- Microsoft SMS/SCCM Plugin
- OS X Plugin

The Endpoint Module is a ForeScout Base Module. Base Modules are delivered with each ForeScout release. This module is automatically installed when you upgrade the ForeScout version or perform a clean installation of the ForeScout platform.

Components listed above are installed and rolled back with the Endpoint Module.

Refer to the relevant configuration guides for detailed information about how to work with and configure components included with this module. See [Additional ForeScout Documentation](#) for information about how to access these guides, and other documentation.

ForeScout Requirements

This module requires ForeScout version 8.1.2.

Components described in this document may have additional requirements and dependencies.

About This Release

This section describes updates and important information related to the components delivered in this version of the Endpoint Module. This release also includes enhancements and fixes provided in previous versions. See [Previous Module Versions](#).

The following table identifies the components that are updated in this module version:

Plugin	Requirements	New Features / Enhancements	Fixed Issues	Known Issues	Upgrade Considerations
Hardware Inventory Plugin 1.1					
HPS Agent Manager Plugin 1.0.2			✓	✓	✓
HPS Inspection Engine 11.0.2			✓	✓	
Linux Plugin 1.4.1			✓	✓	
Microsoft SMS/SCCM Plugin 2.4.1		✓	✓		
OS X Plugin 2.2.1			✓	✓	

Only components providing new features/enhancements are released with an updated configuration guide (help) that matches the updated version number of the component.

Hardware Inventory Plugin 1.1

This plugin is not updated and retains its existing version number.

Requirements

The HPS Inspection Engine must be running.

HPS Agent Manager Plugin 1.0.2

The HPS Agent Manager performs various background functions to support the endpoint discovery and management activities of the Endpoint Module.

Currently, no configuration is required for this component.

Requirements

There are no unique requirements for this plugin.

Feature Enhancements

There are no feature enhancements provided in this version.

Fixed Issues

This section identifies the fixed issues for this version of the Plugin.

- [Merged Hotfixes](#)
- [Fixed for This Version](#)

Merged Hotfixes

The following previously released hotfixes are merged into this release:

Hotfix	Fix Content
10.8.1.2	Refer to Hotfix 10.8.1.2 Release Notes

Fixed for This Version

The following issues are newly fixed in this version of the HPS Agent Manager Plugin:

Issue	Description
EPM-132	Code fix for corruption of German language letters with umlaut.
EPM-116	Policy check stopped working following upgrade to 8.1

Known Issues

Issue	Description
CA-22813	In some cases, after upgrade of Endpoint Module, the HPS Agent Manager Plugin might remain in the CounterACT Stop state or will appear to be running even though it is not actually functioning. All SecureConnector clients are disconnected. If this issue occurs, restart the HPS Agent Manager plugin (stop & start). This will resume normal operation.

Upgrade Considerations

See [Known Issues](#).

HPS Inspection Engine 11.0.2

This section describes important information about the HPS Inspection Engine version 11.0.2.

Requirements

- Core Extensions Module version 1.1.0 including the DNS Client Plugin
- The following Content Modules:
 - Windows Applications version 19.0.1
 - NIC Vendor DB version 19.0.2
 - Windows Vulnerability DB version 19.0.1

- (Flexx licensing) A valid Forescout eyeControl (ForeScout CounterACT Control) license, to use enforcement actions provided by the plugin/component. If you do not have this license, these actions will be disabled in the Console. Refer to the *ForeScout Flexx Licensing How-to Guide* for more information about managing Flexx licenses and how to request/purchase this license.

Feature Enhancements

There are no feature enhancements provided in this release.

Fixed Issues

This section identifies the fixed issues for this version of the Plugin.

- [Merged Hotfixes](#)

Merged Hotfixes

The following previously released hotfixes are merged into this version:

Hotfix	Fix Content
10.7.3.1	Refer to Hotfix 10.7.3.1 Release Notes
10.8.1.2	Refer to Hotfix 10.8.1.2 Release Notes

Known Issues

This section describes known issues for this version of the Plugin.

Issue	Description
HPS-1927, 62969	The Disable External Device action does not work with Seagate portable external drives.
64724	When the Start SecureConnector action is applied to an endpoint running Windows XP, SecureConnector cannot be installed as a Dissolvable or Application deployment using remote installation.
HPS-2806, 73636	This release supports Kerberos authentication for Remote Inspection of endpoints. When the Forescout platform has previously logged in successfully to an endpoint using Kerberos, and the endpoint is removed from the Domain and then rejoins, the Forescout platform cannot reconnect to the endpoint until the domain controller renews the Ticket-Granting Ticket (TGT) used for Kerberos authentication; typically the TGT is renewed every 10 hours. During this period, resolution of properties and other Remote Inspection tasks are not performed for the endpoint.
HPS-2112, 75461	Following removal of SecureConnector, disabled external devices remain disabled.
HPS-5317	SecureConnector is not successfully installed on endpoints running Windows 7 or Windows 10 when the Endpoint Remote Inspection Method is set to <i>Using MS-RRP</i> and scripts are run using Windows Task Scheduler.

Issue	Description
HPS-5318	When actions such as Kill AntiVirus or Kill Instant Messaging are first applied to an endpoint, the Console indicates this by reporting that processes were killed – even if the applications specified in the action were not yet detected on the endpoint.
HPS-5383	When you upgrade to this release, SecureConnector instances that are installed as a Permanent application may not be updated correctly. In addition, some SecureConnector update tasks may remain in Pending state after upgrade.

Linux Plugin 1.4.1

This section describes important information about Linux Plugin version 1.4.1.

Requirements

This section lists requirements for this component.

ForeScout Requirements

- Endpoint Module version 1.1.0 with the following components:
 - OS X Plugin
 - HPS Inspection Engine
- (Flexx licensing) A valid ForeScout eyeControl (ForeScout CounterACT Control) license, to use enforcement actions provided by the plugin/component. If you do not have this license, these actions will be disabled in the Console. Refer to the *ForeScout Flexx Licensing How-to Guide* for more information about managing Flexx licenses and how to request/purchase this license.

Networking Requirements

SecureConnector creates an encrypted tunnel from the endpoint to the Appliance through TCP port 10006. This port must be open on enterprise firewalls to support communication between SecureConnector and the Appliance.

Endpoint Requirements

When Remote Inspection is used to manage endpoints, Python 2.7 or above is required on endpoints.

Endpoints must run one of the following Linux operating systems:

- CentOS version 6
- Debian version 8
- Fedora version 18
- Kali version 4.6.0 (32 bit)
- Mint version 4.4.4 (64 bit)
- Red Hat Enterprise Linux version 6

- Red Hat Enterprise Linux Desktop version 7
- Red Hat version 7.2
- OpenSUSE version 12
- SUSE Enterprise version 11
- Ubuntu version 12.04

Feature Enhancements

There are no feature enhancements provided in this version.

Fixed Issues

This section identifies the fixed issues for this version of the Linux Plugin.

- [Merged Hotfixes](#)
- [Fixed for This Version](#)

Merged Hotfixes

The following previously released hotfixes are merged into this version of the Linux Plugin:

Hotfix	Fix Content
1.1.0.1	Refer to Hotfix 1.1.0.1 Release Notes
1.1.0.2	Refer to Hotfix 1.1.0.2 Release Notes
1.1.1.1	Refer to Hotfix 1.1.1.1 Release Notes
1.2.1.1	Refer to Hotfix 1.2.1.1 Release Notes
1.4.0.1	Refer to Hotfix 1.4.0.1 Release Notes

Fixed for This Version

The following issues are newly fixed in this version of the Linux plugin:

Issue	Description
LNX-382	The /tmp folder is accessible to all users, which could cause local privilege escalation. Therefore, all Remote Inspections scripts now run in a dedicated, protected folder, accessible only by owner and/or root users.
LNX-516	SecureConnector installation failed on Debian 8 operating systems when Dissolvable deployment and Show systray icon options were selected.

Known Issues

This section describes known issues for this version of the Linux Plugin.

Issue	Description
LNX-517	The SecureConnector icon does not display in Ubuntu operating systems when Dissolvable or visible daemon deployment is selected. Upon reboot, the icon is visible with visible daemon deployments.
LNX-680	After upgrade to this release, evaluation of policies that use the Linux Expected Script Result property may be delayed due to mishandling of property resolution.

Microsoft SMS/SCCM Plugin 2.4.1

This section describes important information about Microsoft SMS/SCCM Plugin version 2.4.1.

Requirements

- (Flexx licensing) A valid ForeScout eyeControl (ForeScout CounterACT Control) license, to use enforcement actions provided by the plugin/component. If you do not have this license, these actions will be disabled in the Console. Refer to the *ForeScout Flexx Licensing How-to Guide* for more information about managing Flexx licenses and how to request/purchase this license.

Feature Enhancements

This section describes the new features and/or feature enhancements for this version of the Microsoft SMS/SCCM Plugin.

New Menu Items for Configuration Manager Version

When adding a Microsoft SMS/SCCM server, there are new menu items for SCCM 18xx and SCCM 19xx in the drop-down menu for **Configuration Manager Version**.

Fixed Issues

This section identifies the fixed issues for this version of the Microsoft SMS/SCCM Plugin.

- [Merged Hotfixes](#)

Merged Hotfixes

The following previously released hotfixes are merged into this version of the Microsoft SMS/SCCM Plugin:

Hotfix	Fix Content
2.3.0.1	Refer to Hotfix 2.3.0.1 Release Notes

OS X Plugin 2.2.1

This section describes important information about the OS X Plugin version 2.2.1.

Requirements

This section lists requirements for this component.

ForeScout Requirements

- Endpoint Module version 1.1.0 including the following components:
 - Linux Plugin
 - HPS Inspection Engine
- (Flexx licensing) A valid ForeScout eyeControl (ForeScout CounterACT Control) license, to use enforcement actions provided by the plugin/component. If you do not have this license, these actions will be disabled in the Console. Refer to the *ForeScout Flexx Licensing How-to Guide* for more information about managing Flexx licenses and how to request/purchase this license.

Networking Requirements

SecureConnector creates an encrypted tunnel from the endpoint to the Appliance through TCP port 10005. This port must be open on enterprise firewalls to support communication between SecureConnector and the ForeScout platform.

Endpoint Requirements

This plugin supports OS X operating software versions 10.8 through 10.13.

Feature Enhancements

There are no feature enhancements for this version of the OS X Plugin.

Fixed Issues

This section identifies the fixed issues for this version of the OS X Plugin.

- [Merged Hotfixes](#)

Merged Hotfixes

The following previously released hotfixes are merged into this version of the OS X Plugin:

Hotfix	Fix Content
2.0.3.1	Refer to Hotfix 2.0.3.1 Release Notes
2.1.1.1	Refer to Hotfix 2.1.1.1 Release Notes
2.2.0.1	Refer to Hotfix 2.2.0.1 Release Notes

Known Issues

This section describes known issues for this version of the Plugin.

Issue	Description
OSX-281, 72965	Script files used for the Macintosh Expected Script Result property or <i>Run Script on Macintosh</i> action must be formatted with UNIX line endings, otherwise script execution on the endpoint may fail.

Upgrading the Module


New module releases may become available between ForeScout releases. This section describes how to install the module when a new release becomes available.


To install the module:

1. Navigate to one of the following ForeScout download portals, depending on the licensing mode your deployment is using:
 - [Product Updates Portal](#) - **Per-Appliance Licensing Mode**
 - [Customer Portal, Downloads Page](#) - **Flexx Licensing Mode**

To identify your licensing mode, select **Help > About ForeScout** from the Console.

2. Download the module `.fpi` file.
3. Save the file to the machine where the Console is installed.
4. Log into the Console and select **Options** from the **Tools** menu.
5. Select **Modules**. The Modules pane opens.
6. Select **Install**. The Open dialog box opens.
7. Browse to and select the saved module `.fpi` file.
8. Select **Install**. The Installation screen opens.
9. Select **I agree to the License Agreement** to confirm that you have read and agree to the terms of the License Agreement, and select **Install**. The installation will not proceed if you do not agree to the license agreement.

 *The installation will begin immediately after selecting Install, and cannot be interrupted or canceled.*

 *In modules that contain more than one component, the installation proceeds automatically one component at a time.*

10. When the installation completes, select **Close** to close the window. The installed module is displayed in the Modules pane.

 *Some components are not automatically started following installation.*

Module and Component Rollback

The following rollback/upgrade activities are not supported:

- Rolling back this module (or one of its components) to a version released prior to Forescout 8.1.
- If you are running a version of Forescout lower than 8.1 with the corresponding version of this module installed, you cannot upgrade to this module version (or one of its components).

If you upgrade to a newer module or component version that becomes available after this release, you may be able to roll it back. When rollback is supported, the Rollback button is enabled in the Console.

Modules/components on Appliances connected to the Enterprise Manager are rolled back to the selected version. Modules/components on Appliances that are not connected to the Enterprise Manager during the rollback are rolled back when the Enterprise Manager next reconnects to the Appliances.

To roll back the module or component:

1. Select **Options** from the Console **Tools** menu.
2. Navigate to the **Modules** folder.
3. In the Modules pane, select the module or component to be rolled back.
4. Select **Rollback**. A dialog box opens listing the versions to which you can roll back.
5. Select a version and select **OK**. A dialog box opens showing you the rollback progress.

Previous Module Versions

Installing this module version also installs fixes and enhancements provided in the previous module versions listed in this section. To view Release Notes for previous module versions, see:

<https://www.forescout.com/company/resources/endpoint-module-1-1-1-release-notes/>

<https://www.forescout.com/company/resources/endpoint-module-1-1-release-notes/>

Additional Forescout Documentation

For information about other Forescout features and modules, refer to the following resources:

- [Documentation Downloads](#)
- [Documentation Portal](#)
- [Forescout Help Tools](#)

Documentation Downloads

Access documentation downloads from the [Forescout Resources Page](#), or one of two Forescout portals, depending on which licensing mode your deployment is using.

- **Per-Appliance Licensing Mode** – [Product Updates Portal](#)
- **Flexx Licensing Mode** – [Customer Portal](#)

 *Software downloads are also available from these portals.*

To identify your licensing mode:

- From the Console, select **Help > About Forescout**.

Forescout Resources Page

The Forescout Resources Page provides links to the full range of technical documentation.

To access the Forescout Resources Page:

- Go to <https://www.Forescout.com/company/resources/>, select **Technical Documentation**, and search for documents.

Product Updates Portal

The Product Updates Portal provides links to Forescout version releases, Base and Content Modules, and eyeExtend products, as well as related documentation. The portal also provides a variety of additional documentation.

To access the Product Updates Portal:

- Go to <https://updates.forescout.com/support/index.php?url=counteract> and select the version you want to discover.

Customer Portal


The Downloads page on the Forescout Customer Portal provides links to purchased Forescout version releases, Base and Content Modules, and eyeExtend products, as well as related documentation. Software and related documentation only appear on the Downloads page if you have a license entitlement for the software.

To access documentation on the Forescout Customer Portal:

- Go to <https://Forescout.force.com/support/> and select **Downloads**.

Documentation Portal

The ForeScout Documentation Portal is a searchable, web-based library containing information about ForeScout tools, features, functionality, and integrations.

 *If your deployment is using Flexx Licensing Mode, you may not have received credentials to access this portal.*

To access the Documentation Portal:

- Go to https://updates.forescout.com/support/files/counteract/docs_portal/ and use your customer support credentials to log in.

ForeScout Help Tools

Access information directly from the Console.

Console Help Buttons

Use context-sensitive *Help* buttons to access information about tasks and topics quickly.

ForeScout Administration Guide

- Select **ForeScout Help** from the **Help** menu.

Plugin Help Files

- After installing the plugin, select **Tools** > **Options** > **Modules**, select the plugin, and then select **Help**.

Online Documentation

- Select **Online Documentation** from the **Help** menu to access either the [ForeScout Resources Page](#) (Flexx licensing) or the [Documentation Portal](#) (Per-Appliance licensing).

Contact Information

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About the Documentation

- Refer to the Resources page on the Forescout website for additional technical documentation: <https://www.forescout.com/company/resources/>
- Have feedback or questions? Write to us at documentation@forescout.com

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