

About the Authentication Module

The Fore Scout® Authentication Module provides secure network access across wired, wireless, and guest networks through its RADIUS and User Directory Plugins.

The Authentication Module is a Fore Scout Base Module. Base Modules are delivered with each Fore Scout release. This module is automatically installed when you upgrade the Fore Scout version or perform a clean Fore Scout installation.

The User Directory and RADIUS Plugins are installed and rolled back with the Authentication Module.

Refer to the *Fore Scout Authentication Module Overview Guide* for more module information, such as module requirements, upgrade and rollback instructions.

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

Fore Scout Requirements

This module requires Fore Scout version 8.1.

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

About This Release

This section describes updates and important information related to components delivered in this version of the Authentication Module.

- [RADIUS Plugin 4.4](#)
- [User Directory Plugin 6.4](#)

This release also includes enhancements and fixes provided in previous releases.

RADIUS Plugin 4.4

This section describes important information about the RADIUS Plugin version 4.4.

Requirements

- Network Module version 1.1 with the following components running:
 - Switch Plugin, for wired network RADIUS-based deployment
 - Wireless Plugin, for wireless network RADIUS-based deployment

- Authentication Module version 1.1 with the User Directory Plugin running - for authentication-authorization against Microsoft Active Directory and external RADIUS.
- (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 feature enhancements for this release.

Support for Accounting Stop Packet

Support has been added for an Accounting-Request sent by the NAS server with the attribute Acct-Status-Type with a value of Stop.

[Track to DOT-3580]

Support for Aruba and HPE CWA Templates and AV Pairs

Support has been added for Aruba and HPE CWA templates and AV Pairs.

[Track to DOT-3756]

Allow Users to Switch between Multiple SSIDs

When centralized web authentication (CWA) is used, a user who successfully authenticates to one SSID is automatically authenticated to all SSIDs, even those on different Wireless LAN Controllers.

[Track to DOT-3815]

Fixed Issues

This section describes fixed issues for this release.

Issue	Description
DOT-3159	The plugin did not support the Protected EAP-TLS (PEAP-EAP-TLS) authentication protocol, and did not extract the supplicant user name (tunneled user name) used for the inner authentication phase of Protected EAP-MSCHAPv2.
DOT-3650 DOT-3760	When Accounting was enabled, the RADIUS Plugin received a Framed-IP-Address from the NAS server as an update to the endpoint address, even when the endpoint was in transition between IP addresses assignments or was off-line.

For information about the following fixed issues from the recently released RADIUS Plugin hotfixes that are incorporated into this plugin version, refer to the following:

- Hotfix 4.2.2.1:
 - DOT-3680
 - DOT-3750

<https://forescout.force.com/support/s/article/802-1X-Plugin-HF-builds-4-2-2-1xxx>

- Hotfix 4.3.0.1:
 - DOT-3618
 - DOT-3636

<https://forescout.force.com/support/s/article/802-1X-Plugin-HF-builds-4-3-0-1xxx>

- Hotfix 4.3.1.1:
 - DOT-3752

<https://forescout.force.com/support/s/article/802-1X-Plugin-HF-builds-4-3-1-1xxx>

Known Issues

This section describes known issues for this release.

Issue	Description
DOT-3518	When the default RADIUS Plugin configuration applies to all Appliances, you can perform a Join domain and/or a Test plugin configuration without having to first save (select Apply) your latest configuration updates. However, when working with a per-Appliance configuration of the RADIUS Plugin, always perform the previously mentioned tasks in the following order: <ol style="list-style-type: none"> 1. Save your latest configuration updates (select Apply). 2. Perform any of the following: <ol style="list-style-type: none"> a. Join domain. b. Test plugin configuration.
DOT-3548	Authentication Source properties that are labeled <i>NULL</i> or <i>DEFAULT</i> are not propagated to newly added Appliances. Workaround: Apply the configuration again.
DOT-3765	The Radius Plugin continues to forward requests containing a domain address to the Authentication Source even when the Authentication Source is set as 'NULL DOMAIN'.
DOT-3771	Using an additional ForeScout Appliance as a proxy RADIUS server causes the Authentication Appliance property to change unexpectedly. As a result, policies configured to match the Authenticating Appliance property might not be resolved correctly.
DOT-3795	In the <i>Troubleshoot Rejected Authentications</i> policy template, the <i>Rejected by External RADIUS Server</i> sub-rule does not work.
DOT-3796	When an Appliance is configured as a RADIUS client for itself, the User Directory Plugin sends an unexpected access request to the RADIUS server. Workaround: Uncheck <i>Use for authentication</i> in the User Directory Plugin settings for this RADIUS server.

Issue	Description
DOT-3801	<p>When one Appliance is used for managing segments and a different Appliance is used for managing user authentication, the authentication endpoint properties are not resolved if a user logs into the Appliance that manages segments.</p> <p>Workaround: Use the same Appliance for authentication and for managing segments.</p>
DOT-3882	<p>If the authentication method is EAP-TLS authentication using certificates, and the LDAP-Group criterion is used in a pre-admission authorization rule in the RADIUS Plugin, authentication fails.</p> <p>Workarounds:</p> <ul style="list-style-type: none"> ▪ Use the regular username authentication. ▪ Check the LDAP-Group in the policy rather than in a pre-admission authorization rule.

User Directory Plugin 6.4

This section describes important information about the User Directory Plugin version 6.4.

Requirements

This section describes requirements for this component.

ForeScout Requirements

- Appliance or Enterprise Manager access to the User Directory servers.
- (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.

Supported Guest Management Portal Browsers

The Guest Management Portal can be accessed using any of the following browsers:

- Internet Explorer 11x, Edge
- Safari 9.0 and above on MAC OS; Safari 8.3 and above on iOS
- Chrome 46 and above
- Firefox 43.0 and above
- Android Browser 1.5 and above

Supported Servers

The following user directory and authentication servers are supported:

- Microsoft Active Directory

- Novell eDirectory
- Oracle Directory
- IBM Lotus Notes
- OpenLDAP Server
- RADIUS
- TACACS

You can work with more than one server type simultaneously. For example, if your organization uses Microsoft Active Directory for retrieving user details and a RADIUS server for verifying authentication, you can configure the plugin to work with both these server types.

Feature Enhancements

This section describes feature enhancements for this release.

Support for Login Using the Domain Name

To speed up the login process in multi-domain networks, a new option is available in the HTTP Login > Corporate tab to require corporate users to enter their domain together with their User Name. This option is enabled by default.

[Track to UD-1770]

Fixed Issues

This section describes fixed issues for this release.

Issue	Description
UD-1239	During switch-over, tags were not copied from the Enterprise Manager to the Recovery Enterprise Manager.

Known Issues

This section describes known issues for this release.

Issue	Description
UD-1581	The help icon in the "Log In to the Network" page is not supported.
UD-1222	The status in the ForeScout Console is not updated properly when a registered guest logs in following endpoint proxy server configuration for HTTP Login that does not include the "X-Forwarded-For" HTTP header.
UD-1240	Pending Self-Registration guest list is not copied properly after switch-over to a Recovery Manager.
UD-1427	The User Directory Plugin does not support IPv6 TACACS authentication servers.
UD-1638	Sponsors can access the Guest Management Portal from an Enterprise Manager but not from a Recovery Manager.

Issue	Description
UD-1668	The session ID is not changed after a user changes their password in the Guest Management Portal.
UD-1670	If both DNS Detection and Include parent groups are selected in the Microsoft Active Directory configuration for User Directory, Console login fails.
UD-1760	If the user is unable to log in to the Console and the error message says that the connection and authentication to the Console failed but that the certificate was valid, the certificate might actually be invalid.

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.
- Upgrading to this module (or one of its components) from a version released prior to Forescout 8.1.

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.

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

Documentation downloads can be accessed 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 will 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 quickly access information about the tasks and topics you are working with.

ForeScout Administration Guide

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

Plugin Help Files

- After the plugin is installed, 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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