About the Authentication Module

The Forescout Authentication Module provides secure network access across wired, wireless, and guest networks through the following plugin integrations:

- RADIUS Plugin
- User Directory Plugin

The Authentication 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 Forescout installation.

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

Refer to the Forescout 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 Forescout Documentation for information about how to access these guides, and other documentation.

Forescout Requirements

This module requires a minimum of Forescout 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 the components delivered in this version of the Authentication Module. This release also includes enhancements and fixes provided in previous releases.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Requirements</th>
<th>Feature Enhancements</th>
<th>Fixed Issues</th>
<th>Known Issues</th>
<th>Upgrade Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADIUS Plugin 4.4.2</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>User Directory Plugin 6.4.2</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

*Only components providing new features/enhancements are released with an updated configuration guide (help) that matches the updated version number of the component.*
RADIUS Plugin 4.4.2

This section describes important information about the RADIUS Plugin version 4.4.2.

Requirements

- Minimum of 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
- Minimum of Authentication Module version 1.1 with the User Directory Plugin running - for authentication-authorization against Microsoft Active Directory and external RADIUS.
- If you are using Flexx licensing, ensure that you have a valid Forescout eyeControl (ForeScout CounterACT Control) license, to use enforcement actions provided by the component. Refer to the Forescout Flexx Licensing How-to Guide for more information about managing Flexx licenses.

Feature Enhancements

This section describes the new features and/or feature enhancements for this release of the Radius Plugin.

Allow computer authentication for endpoint with additional DNS suffix on host name.

Description

The Radius plugin provides support for DNS suffix in endpoint authentication. To enable DNS suffix support, run the following CLI command:

`fstool dot1x set_property config.dnssuffixauth.allowed true`

- A DNS suffix cannot be added as an alias within the User Directory plugin.

Limitation

This feature supports only one level of DNS suffix.

Supported:
- machine1.suffix.domain.local

Not Supported:
- machine1.dnssuffix1.dnssuffix2.domain.local
- machine1.mytet.local.dnsprefix

The 802.1x Requested Domain Property is not populated due to limitations preventing the plugin from determining the correct value.
**Fixed Issues**

This section identifies the fixed issues for this release of the RADIUS Plugin.

- Merged Hotfixes

**Merged Hotfixes**

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

<table>
<thead>
<tr>
<th>Hotfix</th>
<th>Fix Content</th>
<th>Up to Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2.3.1</td>
<td>Refer to Hotfix 4.2.3.1 Release Notes</td>
<td>6.2.3.1009</td>
</tr>
<tr>
<td>4.3.1.1</td>
<td>Refer to Hotfix 4.3.1.1 Release Notes</td>
<td>4.3.1.1024</td>
</tr>
<tr>
<td>4.4.1.1</td>
<td>Refer to Hotfix 4.4.1.1 Release Notes</td>
<td>4.4.1.1009</td>
</tr>
</tbody>
</table>

**Known Issues**

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

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-3795</td>
<td>In the Troubleshoot Rejected Authentications policy template, the Rejected by External RADIUS Server sub-rule does not work.</td>
</tr>
<tr>
<td>DOT-3796</td>
<td>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 Use for authentication in the User Directory Plugin settings for this RADIUS server.</td>
</tr>
</tbody>
</table>
| DOT-3882  | 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. Workarounds:  
- Use the regular username authentication.  
- Check the LDAP-Group in the policy rather than in a pre-admission authorization rule. |

**User Directory Plugin 6.4.2**

This section describes important information about the User Directory Plugin version 6.4.2.

**Requirements**

This section describes requirements for this component.

**Forescout Requirements**

- Appliance or Enterprise Manager access to the User Directory servers.
If you are using Flexx licensing, ensure that you have a valid Forescout eyeControl (ForeScout CounterACT Control) license, to use enforcement actions provided by the component. Refer to the Forescout Flexx Licensing How-to Guide for more information about managing Flexx licenses.

**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**
There are no feature enhancements for this release.

**Fixed Issues**
This section identifies the fixed issues for this release of the User Directory Plugin.

- **Fixed for This Version**
- **Merged Hotfixes**

**Fixed for This Version**
The following issues are newly fixed in this version of the User Directory Plugin:
Issue | Description
---|---
UD-1829 | The guest account immediately expired, preventing the guest from accessing the network when the sponsor did not specify when the guest account should expire and didn't allow, or the guest didn't request a duration. The default behavior no longer sets an unlimited duration when a time limit is not specified. Instead, if the duration is not specified, it defaults to 8 hours.

Merged Hotfixes
The following, previously released hotfixes are merged into this version of the User Directory Plugin:

<table>
<thead>
<tr>
<th>Hotfix</th>
<th>Fix Content</th>
<th>Up to Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.3.1.1</td>
<td>Refer to <a href="#">Hotfix 6.3.1.1 Release Notes</a></td>
<td>6.3.1.1065</td>
</tr>
<tr>
<td>6.4.0.1</td>
<td>Refer to <a href="#">Hotfix 6.4.0.1 Release Notes</a></td>
<td>6.4.0.1006</td>
</tr>
</tbody>
</table>

Known Issues
This section describes known issues for this version of the User Directory Plugin.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UD-1222</td>
<td>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 &quot;X-Forwarded-For&quot; HTTP header.</td>
</tr>
<tr>
<td>UD-1240</td>
<td>Pending Self-Registration guest list is not copied properly after switch-over to a Recovery Manager.</td>
</tr>
<tr>
<td>UD-1427</td>
<td>The User Directory Plugin does not support IPv6 TACACS authentication servers.</td>
</tr>
<tr>
<td>UD-1668</td>
<td>The session ID is not changed after a user changes their password in the Guest Management Portal.</td>
</tr>
<tr>
<td>UD-1760</td>
<td>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.</td>
</tr>
</tbody>
</table>

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 cannot proceed unless you agree to the license agreement.

   The installation begins 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.x.

- 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:


### Additional Forescout Documentation

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

- [Documentation Downloads](https://www.forescout.com/company/resources/authentication-module-1-1-release-notes/)
- [Documentation Portal](https://www.forescout.com/company/resources/authentication-module-1-1-release-notes/)
- [Forescout Help Tools](https://www.forescout.com/company/resources/authentication-module-1-1-release-notes/)

### 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](https://www.forescout.com/company/resources/authentication-module-1-1-release-notes/)
- **Flexx Licensing Mode** – [Customer Portal](https://www.forescout.com/company/resources/authentication-module-1-1-release-notes/)

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:**

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
Forescout Technologies, Inc.
190 West Tasman Drive
San Jose, CA 95134 USA
https://www.forescout.com/support/
Toll-Free (US): 1.866.377.8771
Tel (Intl): 1.408.213.3191
Support: 1.708.237.6591

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

Legal Notice
© 2019 Forescout Technologies, Inc. All rights reserved. Forescout Technologies, Inc. is a Delaware corporation. A list of our trademarks and patents can be found at https://www.forescout.com/company/legal/intellectual-property-patents-trademarks. Other brands, products, or service names may be trademarks or service marks of their respective owners.