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

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# Table of Contents

About the Device Profile Library ................................................................. 4  
How It Works ............................................................................................... 5  
Requirements............................................................................................... 6  
Install the Module ...................................................................................... 6  
Configure the Device Profile Library ............................................................ 7  
  Check for Policy Issues .................................................................................7  
Additional Forescout Documentation.......................................................... 8  
  Documentation Downloads .......................................................................... 8  
  Documentation Portal ................................................................................. 9  
  Forescout Help Tools ................................................................................. 9  
Appendix A: Ports and Protocols ................................................................. 10
About the Device Profile Library

The Forescout Device Profile Library is a Content Module that delivers a library of pre-defined device classification profiles, each composed of properties and corresponding values that match a specific device type. Each profile maps to a combination of values for function, operating system, and/or vendor and model. For example, the profile defined for Apple iPad considers the set of properties which includes the hostname of the device revealed by DHCP traffic, the HTTP banner, the NIC vendor and Nmap scan results. The Forescout Device Classification Engine (a component of the Forescout Core Extensions Module) classifies any endpoint with property values matching those specified in the Apple iPad classification profile as:

- **Function**: Information Technology > Mobile > Tablet
- **Operating System**: iOS
- **Vendor and Model**: Apple > Apple iDevice > Apple iPad

The classification values form a tree-structured taxonomy that ultimately describes what the endpoint is. The Device Classification Engine uses these classification profiles to classify devices that are detected in your network.

The classification profile content is updated periodically to improve the quality and breadth of profiles so that more devices types can be classified even more precisely. It is recommended to install the latest version of the Device Profile Library to take advantage of the most current classifications.
How It Works

The Device Classification Engine uses information provided by the Device Profile Library to provide the best possible classification for the device based on the properties available to Forescout eyeSight. Refer to the Forescout Core Extensions Module: Device Classification Engine Configuration Guide. See Additional Forescout Documentation for information on how to access the guide.

Each detected endpoint may be classified according to three different metrics:

- Function
- Operating System
- Vendor and Model

The taxonomy of each classification metric is based on a tree structure. Each level in the tree is more specific than the level above it. Endpoints are classified to the most specific value that eyeSight can resolve.
Requirements

The module requires the following:

- CounterACT version 8.0.1

For optimal endpoint classification, it is recommended to install the highest available versions of the following Forescout components that are compatible with CounterACT 8.0.1, and ensure they are running:

- Core Extensions Module, including the following plugins:
  - DHCP Classifier Plugin
  - Device Classification Engine
- Windows Applications Content Module
- Endpoint Module, including the following plugins:
  - HPS Inspection Engine
  - Linux Plugin, if there are Linux endpoints in your environment
  - OS X Plugin, if there are macOS/OS X endpoints in your environment
- NIC Vendor DB Content Module
- Network Module including the Switch Plugin

Install the Module

The Device Profile Library is included in the CounterACT version 8.0.1 installation. It is recommended to install the latest available version of the module to take advantage of the most current classifications.

After a new version of the Device Profile Library is installed, it is recommended to run a policy that resolves classification properties. Due to classification profile changes in the new library version, some device classifications may change. Before these changes are applied to the endpoints, you can review all the pending changes and decide if you want to apply them, modify existing policies and then apply them, or cancel the changes and roll back to a previous Device Profile Library version. For details, refer to the Forescout Core Extensions Module Device Classification Engine Configuration Guide. See Additional Forescout Documentation for information on how to access the guide.

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 CounterACT... from the Console.
2. Download the module .fpi file.
3. Save the file to the machine where the CounterACT Console is installed.

4. Log into the CounterACT 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.*

### Configure the Device Profile Library

Endpoints are classified only after the **Function**, **Operating System**, or **Vendor and Model** classification properties are used in a policy. It is recommended to use the **Primary Classification** policy template to fully leverage the Device Classification Engine technology.

### Check for Policy Issues

Each release of the Device Profile Library brings new content. Use this command line utility to parse policies and check against new content. This way you can review and adjust your policies if needed.

This check can be run from the Forescout appliance command line terminal:

```bash
dstoool profiles do_policy_scan
```

Example of output if errors are found in the policies:

```
POLICY ERRORS FOUND:

Policy: FS Lab Devices
    Main Rule
    Obsolete values for property 'Vendor and Model':
        GE/GE Healthcare/GE Signa MRI Scanner/GE Signa Excite Profile
```
Obsolete values for action 'Set OS Classification':
  ProCurve R.11.25
Sub-Rule: FS Lab Siemens devices
  Obsolete values for property 'Vendor and Model':
  Siemens/Siemens SIPLUS PCS 7 CPU410-5H
Sub-Rule: FS Lab Checkpoint devices
  Obsolete values for property 'Operating System':
  Check Point IPSO/Check Point R75
Sub-Rule: Set FS Lab device
  Obsolete values for action 'Set Vendor and Model Classification':
  IBM iConnect Access Version 7.0
Policy: Primary Classification
Sub-Rule: Macintosh
  Obsolete values for property 'Operating System':
  Macintosh

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, and 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:

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.

To access the Documentation Portal:
- Go to https://updates.forescout.com/support/files/counteract/docs_portal/.

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).
## Appendix A: Ports and Protocols

The following table lists all the destination ports that may be queried on endpoints during the classification process.

<table>
<thead>
<tr>
<th>Port</th>
<th>Protocol</th>
<th>Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>TCP</td>
<td>Network Attached Storage Device</td>
</tr>
<tr>
<td>22</td>
<td>TCP</td>
<td>Network Attached Storage Device</td>
</tr>
<tr>
<td>80</td>
<td>TCP</td>
<td>Temperature Monitor</td>
</tr>
<tr>
<td>102</td>
<td>TCP</td>
<td>PLC Device</td>
</tr>
<tr>
<td>104</td>
<td>TCP</td>
<td>DICOM Server</td>
</tr>
<tr>
<td>111</td>
<td>TCP</td>
<td>Printer</td>
</tr>
<tr>
<td>161</td>
<td>UDP</td>
<td>Networking Device</td>
</tr>
<tr>
<td>161</td>
<td>UDP</td>
<td>Printer</td>
</tr>
<tr>
<td>443</td>
<td>TCP</td>
<td>Network Attached Storage Device</td>
</tr>
<tr>
<td>500</td>
<td>UDP</td>
<td>Medication Dispensing System</td>
</tr>
<tr>
<td>515</td>
<td>TCP</td>
<td>Printer</td>
</tr>
<tr>
<td>554</td>
<td>TCP</td>
<td>IP Camera</td>
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<tr>
<td>1720</td>
<td>TCP</td>
<td>VoIP Device</td>
</tr>
<tr>
<td>1732</td>
<td>UDP</td>
<td>Patient Monitor</td>
</tr>
<tr>
<td>1801</td>
<td>TCP</td>
<td>Medication Dispensing System</td>
</tr>
<tr>
<td>1950</td>
<td>TCP</td>
<td>Patient Monitor</td>
</tr>
<tr>
<td>2000</td>
<td>TCP</td>
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</tr>
<tr>
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<td>TCP</td>
<td>Medical Cart</td>
</tr>
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<td>TCP</td>
<td>Patient Monitor</td>
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<tr>
<td>2100</td>
<td>TCP</td>
<td>Patient Monitor</td>
</tr>
<tr>
<td>2150</td>
<td>TCP</td>
<td>Patient Monitor</td>
</tr>
<tr>
<td>2222</td>
<td>UDP</td>
<td>PLC Device</td>
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<tr>
<td>5247</td>
<td>UDP</td>
<td>Networking Device</td>
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<td>5684</td>
<td>UDP</td>
<td>IKEA Gateway</td>
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<tr>
<td>8080</td>
<td>TCP</td>
<td>Network Attached Storage Device</td>
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<tr>
<td>9007</td>
<td>TCP</td>
<td>Printer</td>
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<tr>
<td>9100</td>
<td>TCP</td>
<td>Printer</td>
</tr>
<tr>
<td>24000</td>
<td>TCP</td>
<td>Philips Intellivue Device</td>
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<tr>
<td>24001</td>
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<td>Port</td>
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<td>Device</td>
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<tr>
<td>24005</td>
<td>TCP</td>
<td>Philips Intellivue Device</td>
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<td>44818</td>
<td>TCP</td>
<td>PLC Device</td>
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<td>51243</td>
<td>TCP</td>
<td>Infusion Pump</td>
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<td>53213</td>
<td>UDP</td>
<td>Printer</td>
</tr>
<tr>
<td>62078</td>
<td>TCP</td>
<td>Mobile Device</td>
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