
Micro Focus Security ArcSight Connectors

Configuring FIPS for ESM and SmartConnectors

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Document Revision History

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition of a document, go to the : [ArcSight Product Documentation Community on Protect 724](#).

Document Changes

Date	Product Version	Description

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Chapter 1: What is FIPS?

Under the Information Technology Management Reform Act (Public Law 104-106), the Secretary of Commerce approves standards and guidelines that are developed by the National Institute of Standards and Technology (NIST) for Federal computer systems. These standards and guidelines are issued by NIST as Federal Information Processing Standards (FIPS) for use government-wide. NIST develops FIPS when there are compelling Federal government requirements such as for security and interoperability and there are no acceptable industry standards or solutions.

FIPS Suite B includes cryptographic algorithms for hashing, digital signatures, and key exchange. The entire suite of cryptographic algorithms is intended to protect both classified and unclassified national security systems and information.

Note: When FIPS-compliant connectors connect to a non-FIPS-compliant destination, the solution is not considered FIPS compliant. When the destination is installed in FIPS Suite B compliant mode, the SmartConnectors must also be installed in FIPS Suite B compliant mode.

Chapter 2: Installation Instructions for ESM Destination

FIPS compliance in ArcSight connectors has been enhanced by moving to a new provider, Bouncy Castle, replacing provider NSS. This certified, pure Java provider brings new benefits, such as support for Windows 64-bit operating systems. With this move comes changes to the commands for working with certificates, trust stores, key stores, etc. Regarding upgrades, certificates in the NSS store are automatically migrated to the new Bouncy Castle store. See the following sections for details.

Install a Non-FIPS Connector

A system is considered FIPS-compliant only if all members of the system operate using FIPS-compliant cryptographic modules. However, it is possible for an ArcSight ESM environment to simultaneously support both FIPS mode and non-FIPS mode components. This functionality enables phased rollouts of FIPS mode upgrades.

An ArcSight ESM instance that is running both FIPS mode and non-FIPS mode components simultaneously is considered **not** to be FIPS compliant.

To maintain SmartConnectors in non-FIPS mode during FIPS rollout, this section provides the installation and configuration steps that let the connector still authenticate with a FIPS-mode ArcSight Manager.

This section supplements the information in the SmartConnector Configuration Guide for your connector.

Import the ArcSight Manager Certificate Into a Non-FIPS Connector

If ESM was not setup with FIPS Suite B certificates, skip this section and continue with "[Client Authorization](#)".

The manager certificate will be downloaded during connector setup. Once you have installed and configured the connector with an ArcSight Manager (encrypted) destination, use the Java keytool command in a command shell to import your ArcSight Manager certificate.

Note: The following example:

- uses the default password. See the appendix for FIPS Compliant SmartConnectors in the *SmartConnector User Guide* on [Protect 724](#) to set a non-default password.
- assumes that you installed the connector at `/opt/connector/syslog` and saved the certificate to import as `/opt/connector/syslog/current/user/agent/certs/esm.cer`.
- assumes that you are on the Linux platform. For Windows platforms, use backslashes when entering commands.

Follow these steps to import the certificate to a non-FIPS keystore:

1. Navigate to the `/opt/connector/syslog/current` folder and run the Java `keytool` command to import the certificate. See the following table for a description of `keytool` parameters.

```
cd /opt/connector/syslog/current
jre/bin/keytool -importcert -file user/agent/certs/esm.cer -keystore
jre/lib/security/cacerts -storepass changeit
```

2. Enter yes when you are prompted to trust the certificate.

keytool Parameter Name	Parameter Value
file	Path to the certificate to import into the keystore.
keystore	Path to the Java keystore: <i><Installation directory>/current/jre/lib/security/cacerts</i> .
storepass	Password for the Java keystore. Default is <code>changeit</code> . For a non-default value, the value must be the same as set in <code>agent.properties</code> : <code>ssl.truststore.password</code> .
alias	A unique name for this certificate in this trust store.

Chapter 3: Client Authorization

Follow these instructions to enable Client Authorization for Connectors with ESM destinations. For any additional ESM configuration, see the *ESM Administrator's Guide* on [Protect 724](#).

Enable FIPS and non-FIPS Modes for ESM 6.9.1 and SmartConnector 7.5 and Later

The following sections describe the steps to configure FIPS and non-FIPS modes for client authorization.

Note: The following examples:

- use the default password. See the appendix for FIPS Compliant SmartConnectors in the *SmartConnector User Guide* on [Protect 724](#) to set a non-default password.
- assume that you are on the Linux platform. For Windows platforms, use backslashes when entering commands.

FIPS Mode (ESM 6.9.1 and SmartConnector 7.5 and Later)

Step 1: On the Connector

1. When installing a connector, after core software is installed, you are given the choice of adding a connector or setting global parameters. Select **Set global parameters** and select **Enabled** for **Set FIPS Mode**. Exit setup.

If you had already added the connector, the **Modify Connector** window is displayed. Click **Next**, then select **Set Global Parameters**; click **Next**. Select **Enabled** for **Set FIPS Mode**. Exit setup.

2. Open a command window and navigate to the current directory, for example:

```
cd <installation directory>/current
```

3. Generate the key pair in the FIPS client key store:

For Linux platforms:

```
jre/bin/keytool -genkeypair -alias agent -keystore  
config/keystore.client.bcfks -storepass changeit -storetype BCFKS  
-providername BCFIPS -providerclass  
org.bouncycastle.jcajce.provider.BouncyCastleFipsProvider -providerpath
```



```
lib/agent/fips/bc-fips-1.0.0.jar -dname "cn=admin, ou=ArcSight, o=MF, c=US" -validity 365 -J-Djava.security.egd=file:/dev/urandom
```

On Windows platforms: Omit the `-J-Djava.security.egd=file:/dev/urandom` option.

4. Enter the key password for <agent>.
5. Click **Enter** if the key password is the same as keystore password.
6. List the certification key. This is optional to validate the entry.

```
jre/bin/keytool -list -alias agent -keystore config/keystore.client.bcfks  
-storepass changeit -storetype BCFKS -providername BCFIPS -providerclass  
org.bouncycastle.jcajce.provider.BouncyCastleFipsProvider -providerpath  
lib/agent/fips/bc-fips-1.0.0.jar
```

7. Export the certificate from the key pair:

```
jre/bin/keytool -exportcert -file ../agent.cer -alias agent -keystore  
config/keystore.client.bcfks -storepass changeit -storetype BCFKS  
-providername BCFIPS -providerclass  
org.bouncycastle.jcajce.provider.BouncyCastleFipsProvider -providerpath  
lib/agent/fips/bc-fips-1.0.0.jar
```

The certificate is stored in the <../agent.cer> file.

8. Copy the certificate to the ESM server.
9. Edit the user/agent/agent.properties file to add these lines:

```
auth.null=true  
ssl.client.auth=true  
ssl.keystore.password=changeit  
ssl.fips.keystore.path=config/keystore.client.bcfks
```

Note: The `auth.null=true` and `ssl.client.auth=true` settings imply that the authentication mode is SSL **or** password authentication. If the mode is SSL **and** password authentication, then they should be: `auth.null=false` and `ssl.client.auth=true`.

10. If a non-default password was used to create the FIPS key store, add the following property:

```
ssl.fips.keystore.password=<new password>
```

Step 2: On the ArcSight Manager

1. Navigate to the `bin` directory and run the following command to import the connector certificate, for example:

```
cd /opt/arcsight/manager/bin  
./arcsight runcertutil -A -n "agent" -t "CT,C,C" -d  
/opt/arcsight/manager/config/jetty/nssdb -i /tmp/agent.cer
```

2. Run the following commands to validate:

```
./arcsight runcertutil -L -d /opt/arcsight/manager/config/jetty/nssdb
```

Note: This example assumes that there is an account on ArcSight Manager whose external ID matches the `cn=admin` value in the connector's certificate. This value will be different for each customer. For information on the external ID string see the *ArcSight Manager Administrator's Guide*.

3. Export the ArcSight Manager certificate:

```
./arcsight runcertutil -L -r -d /opt/arcsight/manager/config/jetty/nssdb/  
-n mykey -o /tmp/manager.cer
```

4. Copy the `manager.cer` file to the connector installation directory.

5. Stop, then restart ArcSight Manager:

```
/etc/init.d/arcsight_services stop manager  
/etc/init.d/arcsight_services start manager  
/etc/init.d/arcsight_services status all
```

Step 3: On the Connector

1. Navigate to the current directory and import the ArcSight Manager certificate to the Connector FIPS trust store, for example:

```
cd <installation directory>/current/  
jre/bin/keytool -importcert -file ../manager.cer -keystore  
"user/agent/fips/bcfips_ks" -storepass changeit -storetype BCFKS  
-providername BCFIPS -providerclass  
org.bouncycastle.jcajce.provider.BouncyCastleFipsProvider -providerpath  
"lib/agent/fips/bc-fips-1.0.0.jar" -J-Djava.security.egd=file:/dev/urandom  
-alias esm
```

On Windows platforms: Omit the `-J-Djava.security.egd=file:/dev/urandom` option.

2. Enter **yes** to trust the certificate.

For Connector version 7.5 only: If you plan to upgrade from ESM, follow these steps:

- a. Navigate to the current directory and import the ArcSight Manager certificate to the connector FIPS key store, for example:

```
cd <install dir>/current/  
jre/bin/keytool -importcert -file ../manager.cer -keystore  
"config/keystore.client.bcfks" -storepass changeit -storetype BCFKS  
-providername BCFIPS -providerclass  
org.bouncycastle.jcajce.provider.BouncyCastleFipsProvider  
-providerpath "lib/agent/fips/bc-fips-1.0.0.jar"  
-J-Djava.security.egd=file:/dev/urandom -alias esm
```

On Windows platforms: Omit the `-J-Djava.security.egd=file:/dev/urandom` option.

- b. Enter **yes** to trust the certificate.

3. Navigate to the `bin` directory and run agent setup:
- ```
cd <installation directory>/current/bin
./runagentsetup.sh
```

**On Windows platforms:** Run the `runagentsetup.bat` executable.

4. Select the connector to add. Enter connector configuration parameter values as required. Click **Next** to proceed to destination selection.
5. Add the ESM destination. For FIPS Ciphers, select the option that matches how the target ESM is configured (Default (140-2), FIPS-128, and so on). This should match how ESM is configured. If ESM is in SSL-Only mode, do not enter anything for username and password. See the following table for details. For more information on these configuration modes, see the *ESM Administrator's Guide* on [Protect 724](#).

| ESM Configuration | Username    | Password       |
|-------------------|-------------|----------------|
| SSL-Only          | Leave blank | Leave blank    |
| Password and SSL  | Enter name  | Enter password |
| Password or SSL   | Leave blank | Leave blank    |

6. Wait until connector registration completes. The next window displays:
- Following are the added connector details: Connector Name [the name you provided], Connector Type [syslog]
7. When you are given the choice to **Continue** or **Exit** the wizard, click Exit.

## Non-FIPS Mode (ESM 6.9.1 and SmartConnector 7.5 and Later)

### Step 1: On the Connector

1. After the connector core software is installed, you are given the choice of adding a connector or setting global parameters. Select **Set global parameters** and select **Disabled** for **Set FIPS Mode**. Exit setup.
- If you have already added the connector, the **Modify Connector** window is displayed. Click **Next**, then select **Set Global Parameters**; click **Next**. Select **Disabled** for **Set FIPS Mode**. Exit setup.
2. Open a command window and navigate to the `current` directory, for example:

```
cd <installation directory>/current
```

3. Generate the key pair in FIPS client key store, for example:

```
jre/bin/keytool -genkeypair -keystore config/keystore.client -storetype
JKS -storepass changeit -dname "cn=admin, ou=ArcSight, o=MF, c=US" -alias
admin -validity 365
```

4. Enter key password for <agent>.
5. Click **Enter** if the key password is the same as keystore password.
6. List the certification key. This is optional to validate the entry.

```
jre/bin/keytool -list -keystore config/keystore.client -storepass changeit
```

7. Export the certificate from key pair:

```
jre/bin/keytool -exportcert -keystore config/keystore.client -alias admin
-storepass changeit -file ../agent.cer
```

The certificate is stored in the <../agent.cer> file.

8. Copy the certificate to the ESM server.
9. Edit the user/agent/agent.properties file to add these lines:

```
auth.null=true
ssl.client.auth=true
ssl.keystore.password=changeit
```

**Note:** The auth.null=true and ssl.client.auth=true settings imply that the authentication mode is SSL **or** password authentication. If the mode is SSL **and** password authentication, then they should be: auth.null=false and ssl.client.auth=true.

## Step 2: On the ArcSight Manager

1. Navigate to the bin directory and run the following command to import the connector certificate, for example:

```
cd /opt/arcsight/manager/bin
./arcsight keytool -store managercerts -importcert -alias agent -file
/opt/agent.cer
```

2. Enter yes to trust the certificate.  
If you receive an error that the alias already exists, change the value of alias.

3. Run the following command to export the ESM manager certificate:

```
./arcsight keytool -exportcert -store managerkeys -alias mykey -file
/opt/arcsight/manager.cer
```

4. Copy manager.cer to the connector installation directory.
5. Stop, then restart ArcSight Manager:

```
/etc/init.d/arcsight_services stop manager
/etc/init.d/arcsight_services start manager
/etc/init.d/arcsight_services status all
```

## Step 3: On the Connector

1. Navigate to the current directory and run the following commands to import the ArcSight Manager certificate to the Connector FIPS trust store, for example:

```
cd <installation directory>/current
jre/bin/keytool -keystore jre/lib/security/cacerts -storepass changeit
-importcert -file ../manager.cer
```

Enter **yes** to trust the certificate.

2. Navigate to the bin directory and run agent setup:

```
cd <installation directory>/current/bin
./runagentsetup.sh
```

**On Windows platforms:** Run the runagentsetup.bat executable.

3. Select the connector to add. Enter connector configuration parameter values as required. Click **Next** to proceed to destination selection.

4. Add the ESM destination.

If ESM is in SSL-Only mode, do not enter anything for username or password. See the following table for details. For more information on these configuration modes, see the *ESM Administrator's Guide* on [Protect 724](#).

| ESM Configuration | Username    | Password       |
|-------------------|-------------|----------------|
| SSL-Only          | Leave blank | Leave blank    |
| Password and SSL  | Enter name  | Enter password |
| Password or SSL   | Leave blank | Leave blank    |

5. Wait until connector registration completes. The next window displays:

Following are the added connector details: Connector Name [the name you provided], Connector Type [syslog]

6. Exit the setup wizard.

# Enable FIPS and non-FIPS Mode for ESM 6.11 and SmartConnector 7.4 and Earlier

The following sections describe the steps to configure FIPS and non-FIPS modes for client authorization.

**Note:** The following examples:

- use the default password. See the appendix for FIPS Compliant SmartConnectors in the *SmartConnector User Guide* on [Protect 724](#) to set a non-default password.
- assume that you are on the Linux platform. For Windows platforms, use backslashes when entering commands.

## FIPS Mode (ESM 6.11 and SmartConnector 7.4 and Earlier)

### Step 1: On the Connector

1. When installing a connector, after core software is installed, you are given the choice of adding a connector or setting global parameters. Select **Set global parameters** and select **Enabled** for **Set FIPS Mode**. Exit setup.

If you had already added the connector, the **Modify Connector** window is displayed. Click **Next**, then select **Set Global Parameters**; click **Next**. Select **Enabled** for **Set FIPS Mode**. Exit setup.

2. Open a command window and navigate to the current directory, for example:

```
cd <installation directory>/current
```

3. Generate the key pair in the FIPS client key store:

- **For FIPS Default (140-2):**

```
bin/arcsight runcertutil -S -s "CN=admin" -v 1 -n agent -k rsa -x -t "C,C,C" -m 1234 -d user/agent/nssdb.client
```

- **For FIPS Suite B:**

Refer to "Types of Key Pairs Used in FIPS Mode" in the *ESM Administrator's Guide* on [Protect 724](#).

4. Enter the NSS DB password.
5. List the certification key. This is optional to validate the entry.

```
bin/arcsight runcertutil -L -d user/agent/nssdb.client -n agent
```

6. Export the certificate from the key pair:

```
bin/arcsight runcertutil -L -n agent -r -d user/agent/nssdb.client -o
../agent.cer
```

The certificate is stored in the `<../agent.cer>` file.

7. Copy the certificate to the ESM server.
8. Edit the `user/agent/agent.properties` file to add these lines:

```
auth.null=true
ssl.client.auth=true
ssl.keystore.password=changeit
```

**Note:** The `auth.null=true` and `ssl.client.auth=true` settings imply that the authentication mode is SSL **or** password authentication. If the mode is SSL **and** password authentication, then they should be: `auth.null=false` and `ssl.client.auth=true`.

9. If a non-default password was used to create the FIPS key store, add the following property:

```
ssl.fips.keystore.password=<new password>
```

## Step 2: On the ArcSight Manager

1. Navigate to the `bin` directory and run the following command to import the connector certificate, for example:

```
cd /opt/arcsight/manager/bin
./arcsight keytool -store managercerts -importcert -alias agent -file
/opt/agent.cer
```

2. Run the following commands to validate:

```
./arcsight keytool -store managercerts -list -alias agent
```

3. Export the ArcSight Manager certificate:

```
./arcsight keytool -exportcert -store managerkeys -alias mykey -file
/opt/arcsight/manager.cer
```

4. Copy the `manager.cer` file to the connector installation directory.

5. Stop, then restart ArcSight Manager:

```
/etc/init.d/arcsight_services stop manager
/etc/init.d/arcsight_services start manager
/etc/init.d/arcsight_services status all
```

## Step 3: On the Connector

1. Navigate to the `bin` directory and import the ArcSight Manager certificate to the Connector FIPS trust store, for example:

```
cd <installation directory>/current/bin
```

```
./arcsight agent keytool -store clientcerts -importcert -alias esm -file
/opt/manager.cer
```

**On Solaris platforms:** Run the following command instead:

```
./bin/arcsight runcertutil -A -n esm -t "CT,C,C"
-d /user/agent/nssdb.client -I /opt/manager.cers
```

2. Enter **yes** to trust the certificate.
3. Navigate to the bin directory and run agent setup:  

```
cd <installation directory>/current/bin
./runagentsetup.sh
```

**On Windows platforms:** Run the runagentsetup.bat executable instead.

4. Select the connector to add. Enter connector configuration parameter values as required. Click **Next** to proceed to destination selection.
5. Add the ESM destination. For FIPS Ciphers, select the option that matches how the target ESM is configured (Default (140-2), FIPS-128, and so on). This should match how ESM is configured.  
If ESM is in SSL-Only mode, do not enter anything for username and password. See the following table for details. For more information on these configuration modes, see the *ESM Administrator's Guide* on [Protect 724](#).

| ESM Configuration | Username    | Password       |
|-------------------|-------------|----------------|
| SSL-Only          | Leave blank | Leave blank    |
| Password and SSL  | Enter name  | Enter password |
| Password or SSL   | Leave blank | Leave blank    |

6. Wait until connector registration completes. The next window displays:  
Following are the added connector details: Connector Name [the name you provided], Connector Type [syslog]
7. When you are given the choice to **Continue** or **Exit** the wizard, click **Exit**.

## Non-FIPS Mode (ESM 6.11 and SmartConnector 7.4 and Earlier)

### Step 1: On the Connector

1. After the connector core software is installed, you are given the choice of adding a connector or setting global parameters. Select **Set global parameters** and select **Disabled** for **Set FIPS Mode**. Exit setup.



If you have already added the connector, the **Modify Connector** window is displayed. Click **Next**, then select **Set Global Parameters**; click **Next**. Select **Disabled** for **Set FIPS Mode**. Exit setup.

2. Open a command window and navigate to the current directory, for example:

```
cd <installation directory>/current
```

3. Generate the key pair in FIPS client key store, for example:

```
jre/bin/keytool -genkeypair -keystore config/keystore.client -storetype
JKS -storepass changeit -dname "cn=admin, ou=ArcSight, o=MF, c=US" -alias
admin -validity 365
```

4. Enter key password for <agent>.
5. Click **Enter** if the key password is the same as keystore password.

6. List the certification key. This is optional to validate the entry.

```
jre/bin/keytool -list -keystore config/keystore.client -storepass changeit
```

7. Export the certificate from key pair:

```
jre/bin/keytool -exportcert -keystore config/keystore.client -alias admin
-storepass changeit -file ../agent.cer
```

The certificate is stored in the <../agent.cer> file.

8. Copy the certificate to the ESM server.
9. Edit the user/agent/agent.properties file to add these lines:

```
auth.null=true
ssl.client.auth=true
ssl.keystore.password=changeit
```

**Note:** The auth.null=true and ssl.client.auth=true settings imply that the authentication mode is SSL **or** password authentication. If the mode is SSL **and** password authentication, then they should be: auth.null=false and ssl.client.auth=true.

## Step 2: On the ArcSight Manager

1. Navigate to the bin directory and run the following command to import the connector certificate, for example:

```
cd /opt/arcsight/manager/bin
./arcsight keytool -store managercerts -importcert -alias agent -file
/opt/agent.cer
```

2. Enter yes to trust the certificate.

If you receive an error that the alias already exists, change the value of alias.

3. Run the following command to export the ESM manager certificate:

```
./arcsight keytool -exportcert -store managerkeys -alias mykey -file
/opt/arcsight/manager.cer
```

4. Copy `manager.cer` to the connector installation directory.
5. Stop, then restart ArcSight Manager:

```
/etc/init.d/arcsight_services stop manager
/etc/init.d/arcsight_services start manager
/etc/init.d/arcsight_services status all
```

## Step 3: On the Connector

1. Navigate to the `current` directory and run the following commands to import the ArcSight Manager certificate to the Connector non-FIPS trust store, for example:

```
cd <installation directory>/current
jre/bin/keytool -keystore jre/lib/security/cacerts -storepass changeit
-importcert -file ../manager.cer
```

Enter **yes** to trust the certificate.

2. Navigate to the `bin` directory and run agent setup:

```
cd <installation directory>/current/bin
./runagentsetup.sh
```

**On Windows platforms:** Run the `runagentsetup.bat` executable.

3. Select the connector to add. Enter connector configuration parameter values as required. Click **Next** to proceed to destination selection.

4. Add the ESM destination.

If ESM is in SSL-Only mode, do not enter anything for username or password. See the following table for details. For more information on these configuration modes, see the *ESM Administrator's Guide* on [Protect 724](#).

| ESM Configuration | Username    | Password       |
|-------------------|-------------|----------------|
| SSL-Only          | Leave blank | Leave blank    |
| Password and SSL  | Enter name  | Enter password |
| Password or SSL   | Leave blank | Leave blank    |

5. Wait until connector registration completes. The next window displays:

Following are the added connector details: Connector Name [the name you provided], Connector Type [syslog]

6. Exit the setup wizard.

## Chapter 4: Check Whether the Connector is in FIPS Mode

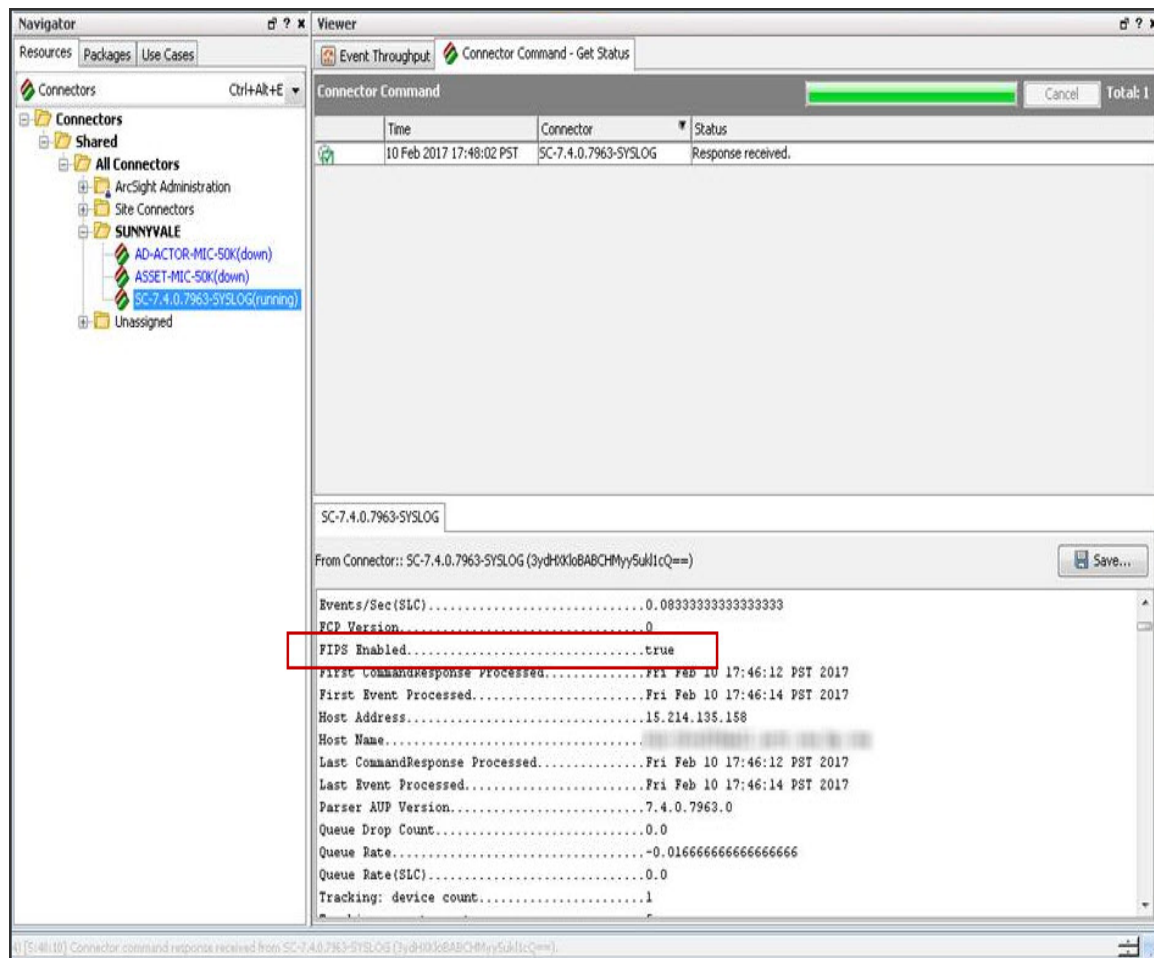
You can determine whether the connector is connecting through FIPS and is FIPS compliant by checking either the FIPS connector log or the ArcSight Console.

- Check the FIPS connector log. When the connector starts, the `agent.log` file contains a log line indicating that the connector is **Running in FIPS mode**.

```
[2017-02-01 11:15:49,448][INFO][default.com.arcsight.common.log.n][init] Initialized event log CSV
[2017-02-01 11:15:49,465][WARN][default.com.arcsight.common.config.AgentPropertiesFileConfiguratio
[2017-02-01 11:15:49,480][INFO][default.com.arcsight.agent.by.f][getInputStream] Resource [registr
[2017-02-01 11:15:49,483][INFO][default.com.arcsight.common.config.AgentPropertiesFileConfiguratio
[2017-02-01 11:15:49,485][INFO][default.com.arcsight.agent.by.f][getInputStream] Resource [registr
[2017-02-01 11:15:49,486][INFO][default.com.arcsight.agent.c.l.a][initializeCachedAgentDetails] Loa
[2017-02-01 11:15:49,543][INFO][default.com.arcsight.agent.Agent][initializeMemoryMonitor] Could n
[2017-02-01 11:15:49,545][INFO][default.com.arcsight.agent.Agent][initializeMemoryMonitor] Memory
[2017-02-01 11:15:49,610][INFO][default.com.arcsight.agent.Agent][instantiateAgents] Making sure t
[2017-02-01 11:15:49,610][WARN][default.com.arcsight.agent.Agent][instantiateAgents] No SmartAgent
[2017-02-01 11:15:49,611][INFO][default.com.arcsight.agent.Agent][instantiateAgents] Agents instan
[2017-02-01 11:15:49,622][INFO][default.com.arcsight.agent.Agent][init] Running in Fips mode
[2017-02-01 11:15:49,625][WARN][default.com.arcsight.agent.fz][start] No Connectors configured
[2017-02-01 11:15:49,631][WARN][default.com.arcsight.agent.util.h][load] Neither [ps.genericupgrad
[2017-02-01 11:15:49,634][INFO][default.com.arcsight.agent.fy][run] Memory Usage: 177Mb out of 397
[2017-02-01 11:15:49,634][INFO][default.com.arcsight.agent.fy][logStatus] Transport flow status:
[2017-02-01 11:15:49,635][INFO][default.com.arcsight.agent.fy][logStatus] Other status:
```

- Issue the **Send Command > Status > Get Status** command from the ArcSight Console. The FIPS

Enabled property is set to true in the output returned to the ArcSight Console.



## Remote Upgrade

The remote connector (AUP) upgrade feature does not work on Windows platforms when the connector is installed in FIPS compliant mode. See *Installing FIPS-Compliant SmartConnectors on Protect 724* for details.

# Send Documentation Feedback

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## **Feedback on Configuring FIPS for ESM and SmartConnectors (Connectors )**

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