



Hewlett Packard
Enterprise

HPE Security ArcSight Connectors

SmartConnector for Solsoft Policy Server

Configuration Guide

November 30, 2016

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Revision History

Date	Description
11/30/2016	Updated installation procedure for setting preferred IP address mode.
02/14/2014	Updated parameter screen image.
05/15/2012	Added new installation procedure.
09/24/2010	Updated versions supported.
02/11/2010	Added support for FIPS Suite B and CEF File transport.

Contents

Product Overview.....	4
Configuration.....	4
Obtaining an Authentication Certificate from the Solsoft Policy Server.....	4
Import the Certificate to the Local Java Runtime Environment	10
Verify the Imported Certificate.....	10
Install the SmartConnector.....	11
Prepare to Install Connector	11
Install Core Software.....	11
Set Global Parameters (optional).....	12
Select Connector and Add Parameter Information.....	12
Select a Destination	13
Complete Installation and Configuration	14
Run the SmartConnector	14
Troubleshooting	14

SmartConnector for Solsoft Policy Server

This guide provides information for installing the SmartConnector for Solsoft Policy Server and configuring the device to send logged events to the SmartConnector. Solsoft Versions 6.0 and 7 are supported in Windows environments. This SmartConnector may not work with Solsoft version 7.0.2 and later versions.

Product Overview

Solsoft Policy Server centralizes and automates the design, deployment, and documentation of security policies for multi-vendor firewalls, routers, switches, VPN gear, and other security infrastructure. Solsoft Policy Server can generate optimal configuration for network devices and create complete and consistent network security in large and complex multi-device and multi-vendor networks.

Configuration

Obtaining an Authentication Certificate from the Solsoft Policy Server

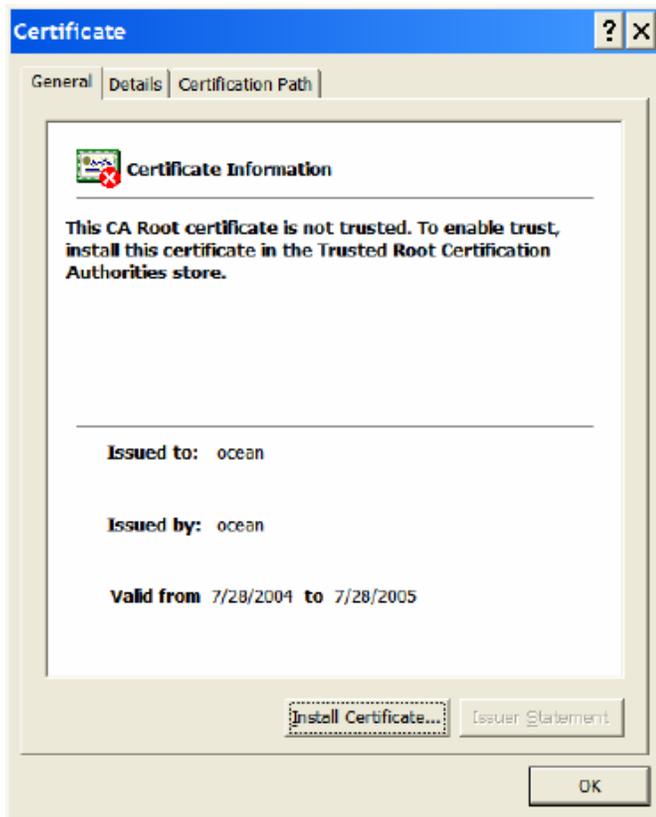
Because the SmartConnector will be validating the Solsoft Policy Server's authentication certificate, first get the certificate from the Solsoft Policy Server and import it into the SmartConnector Java Runtime Environment before running the SmartConnector for Solsoft Policy Server.

This section provides instructions about retrieving, importing, and verifying the authentication certificate. The SmartConnector is to be installed in the folder `c:\ArcSight` on Windows.

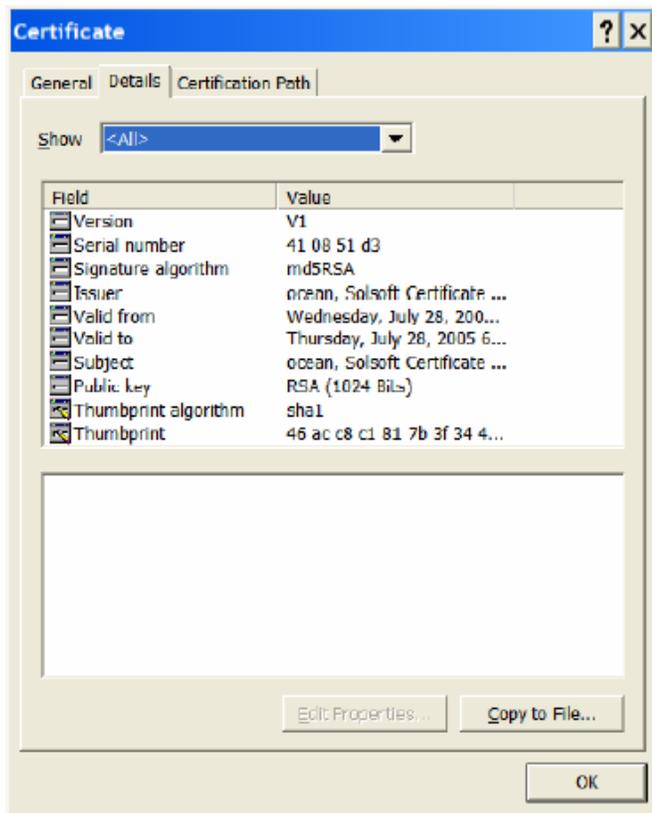
- 1 From Internet Explorer, access site <https://10.0.111.16:8443>; the following dialog box is displayed (with the Solsoft Web Server service running on 10.0.111.16 with port 8443).



- 2 Click **View Certificate**.



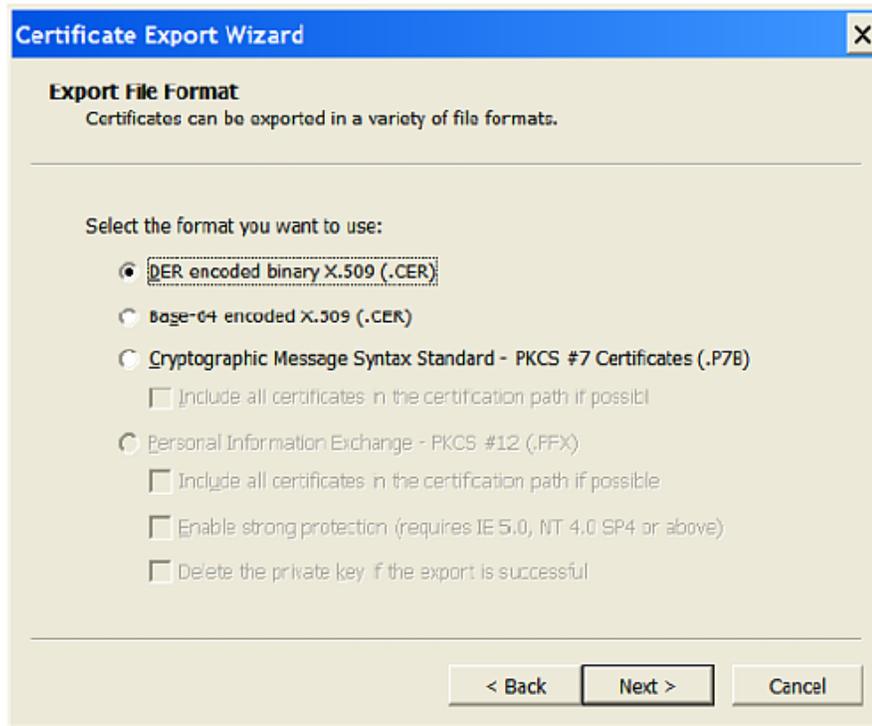
- 3 Click the **Details** tab.



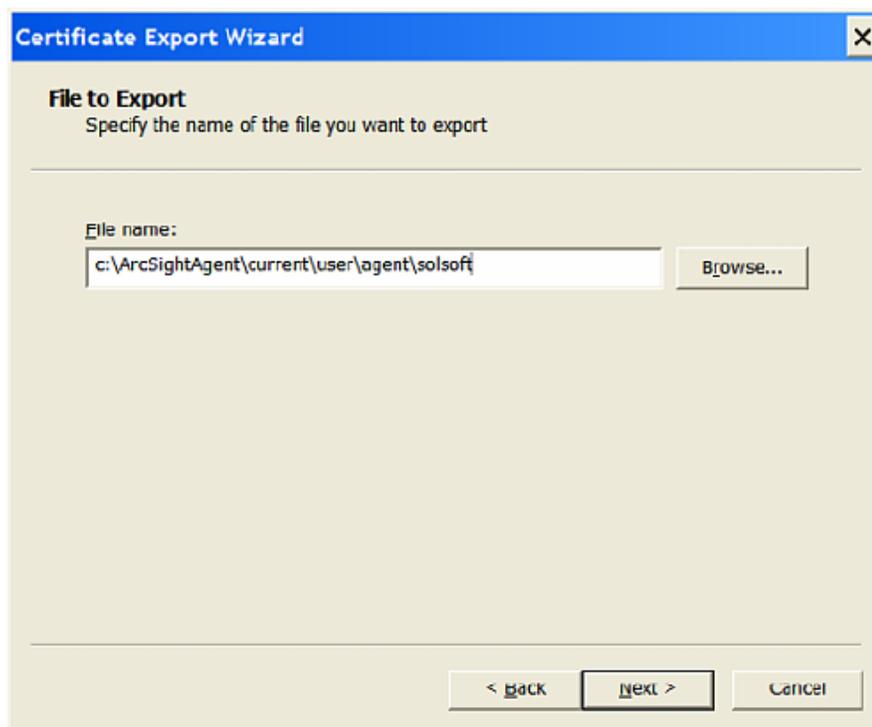
4 Click the **Copy to File** button.



5 Click **Next** and select **DER encoded binary X.509 (.CER)**, used by the SmartConnector for Solsoft Policy Server.



- 6 Click **Next** and enter a file name for the new certificate. Remember this file path and name; you will need it later.



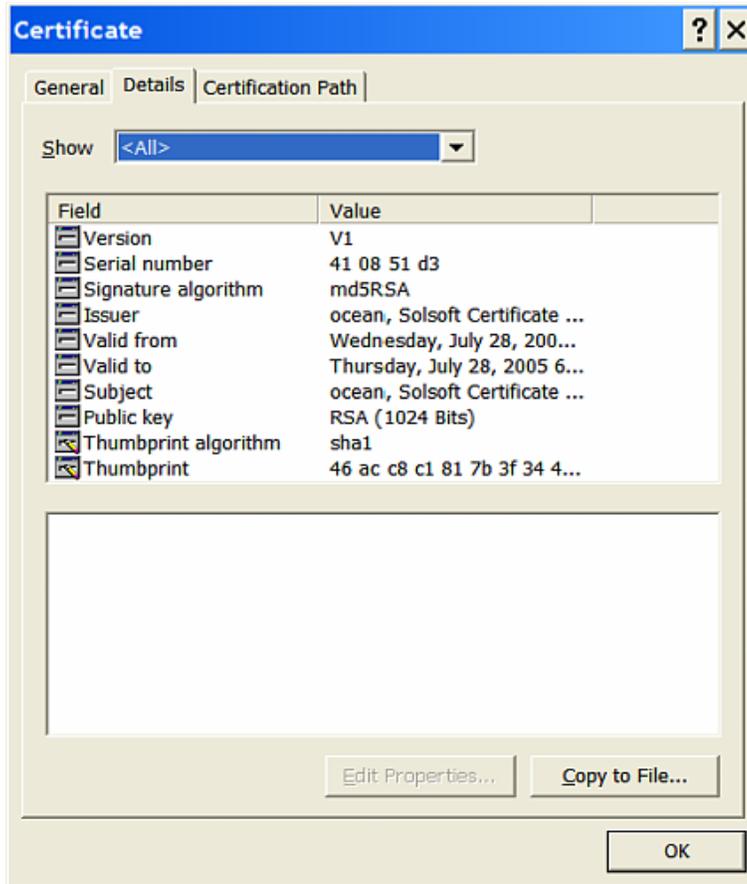
- 7 Click **Next**.



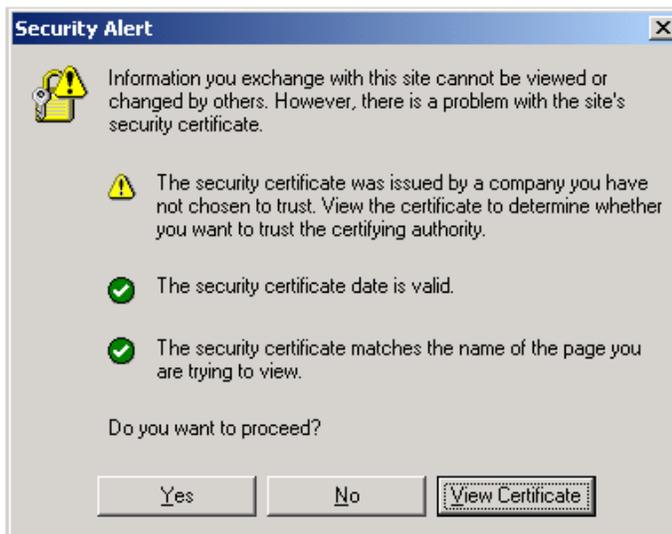
- 8 Click **Finish**. The following confirmation window is displayed.



- 9 Click **OK**.



10 Click **OK**.



11 Click **No** to end the procedure.



Auto upload is not enabled by default for Solsoft Policy Server version 7.0 or later; in addition, auto upload should never be used for Solsoft Policy Server version 6.0 or earlier.

Import the Certificate to the Local Java Runtime Environment

Once the certificate has been created, import it into the Java runtime environment. To do so, open a command window on the SmartConnector machine at `ARCSIGHT_HOME\bin` and follow these steps.

- 1 Execute the keytool application to import the Solsoft Policy Server certificate that we obtained by performing the steps in the previous section.

```
arcsight agent keytool -import -alias solsoft_server -file
c:\ArcSightAgent\current\user\agent\solsoft -store clientcerts
```

(Enter the keytool command on a single line.)

- 2 Following the prompts, answer 'yes' for prompt **Trust this certificate?**

```
ArcSight Keytool Wrapper 3.1.0.0.0
Using key store: c:\Program
Files\Java\jdk1.5.0_02\jre\lib\security\cacerts (JKS)
Owner: CN=ocean, OU=Solsoft Certificate Authority, O=Solsoft, C=US
Issuer: CN=ocean, OU=Solsoft Certificate Authority, O=Solsoft, C=US
Serial number: 410851d3
Valid from: Wed Jul 28 18:24:35 PDT 2004 until: Thu Jul 28 18:24:35 PDT
2005
Certificate fingerprints:
    MD5:  A6:B7:6D:2C:D9:02:E0:FB:89:FC:0F:04:CA:36:FF:83
    SHA1: 46:AC:C8:C1:81:7B:3F:34:4A:40:AB:E9:B4:D0:8D:C2:00:39:43:1F
Trust this certificate? [no]:  yes
Certificate was added to keystore
```

Verify the Imported Certificate

You can verify the imported certificate by issuing the following command:

```
arcsight agent keytool -list -store clientcerts
```

The new certificate (alias=solsoft_server) is displayed in the list:

```
Keystore type: jks
Keystore provider: SUN
Your keystore contains 12 entries:
...
solsoft_server, Apr 7, 2005, trustedCertEntry,
Certificate fingerprint (MD5):
A6:B7:6D:2C:D9:02:E0:FB:89:FC:0F:04:CA:36:FF:83
...
```

Install the SmartConnector

The following sections provide instructions for installing and configuring your selected SmartConnector.

Prepare to Install Connector

Before you install any SmartConnectors, make sure that the ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger). This configuration guide takes you through the installation process with **ArcSight Manager (encrypted)** as the destination.

For complete product information, read the *Administrator's Guide* as well as the *Installation and Configuration* guide for your ArcSight product before installing a new SmartConnector. If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* for instructions, and start the installation procedure at "Set Global Parameters (optional)" or "Select Connector and Add Parameter Information."

Before installing the SmartConnector, be sure the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords

Install Core Software

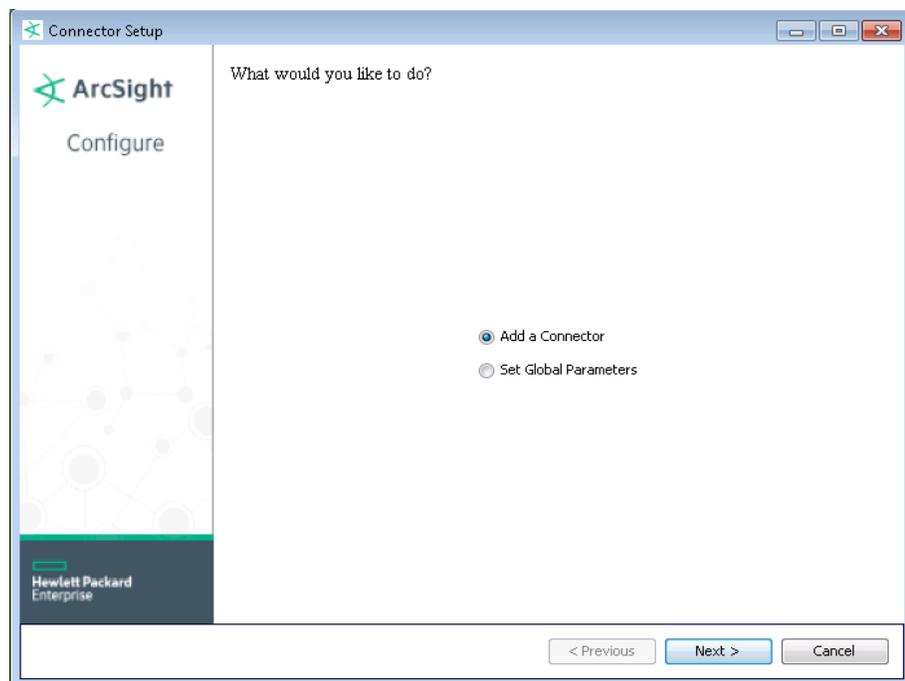
Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms; for the complete list, see the *SmartConnector Product and Platform Support* document, available from the HPE SSO and Protect 724 sites.

- 1 Download the SmartConnector executable for your operating system from the HPE SSO site.
- 2 Start the SmartConnector installation and configuration wizard by running the executable.

Follow the wizard through the following folder selection tasks and installation of the core connector software:

Introduction
Choose Install Folder
Choose Shortcut Folder
Pre-Installation Summary
Installing...

- 3 When the installation of SmartConnector core component software is finished, the following window is displayed:



Set Global Parameters (optional)

If you choose to perform any of the operations shown in the following table, do so before adding your connector. After installing core software, you can set the following parameters:

Global Parameter	Setting
Set FIPS mode	Set to 'Enable' to enable FIPS compliant mode. To enable FIPS Suite B Mode, see the SmartConnector User Guide under "Modifying Connector Parameters" for instructions. Initially, this value is set to 'Disable'.
Set Remote Management	Set to 'Enable' to enable remote management from ArcSight Management Center. When queried by the remote management device, the values you specify here for enabling remote management and the port number will be used. Initially, this value is set to 'Disable'.
Remote management listener port	The remote management device will listen to the port specified in this field. The default port number is 9001.
Preferred IP Version	If both IPv4 and IPv6 IP addresses are available for the local host (the machine on which the connector is installed), you can choose which version is preferred. Otherwise, you will see only one selection. When both values are present, the initial setting is IPv4.

After making your selections, click **Next**. A summary screen is displayed. Review the summary of your selections and click **Next**. Click **Continue** to return to the "Add a Connector" window. Continue the installation procedure with "Select Connector and Add Parameter Information."

Select Connector and Add Parameter Information

- 1 Select **Add a Connector** and click **Next**. If applicable, you can enable FIPS mode and enable remote management later in the wizard after SmartConnector configuration.
- 2 Select **Solsoft Policy Server** and click **Next**.

- 3 Enter the required SmartConnector parameters to configure the SmartConnector, then click **Next**.

Parameter	Description
Host Name or IP	Host name or IP address of the Solsoft Policy Server.
Web Service Port	Port that will be used for communication with the Solsoft Policy Server Web Server service. The default is 8443.
Login User	User name of login user for Solsoft Policy Server.
Password	Password of the login user for Solsoft Policy Server.
Project Name	The Solsoft project name.

Select a Destination

- 1 The next window asks for the destination type; make sure **ArcSight Manager (encrypted)** is selected and click **Next**. (For information about this destination or any of the other destinations listed, see the *ArcSight SmartConnector User Guide*.)
- 2 Enter values for the **Manager Host Name**, **Manager Port**, **User** and **Password** required parameters. This is the same ArcSight user name and password you created during the ArcSight Manager installation. Click **Next**.
- 3 Enter a name for the SmartConnector and provide other information identifying the connector's use in your environment. Click **Next**. The connector starts the registration process.
- 4 The certificate import window for the ArcSight Manager is displayed. Select **Import the certificate to the connector from destination** and click **Next**. (If you select **Do not import the certificate to connector from destination**, the connector installation will end.) The certificate is imported and the **Add connector Summary** window is displayed.

Complete Installation and Configuration

- 1 Review the **Add Connector Summary** and click **Next**. If the summary is incorrect, click **Previous** to make changes.
- 2 The wizard now prompts you to choose whether you want to run the SmartConnector as a stand-alone process or as a service. If you choose to run the connector as a stand-alone process, select **Leave as a standalone application**, click **Next**, and continue with step 5.
- 3 If you chose to run the connector as a service, with **Install as a service** selected, click **Next**. The wizard prompts you to define service parameters. Enter values for **Service Internal Name** and **Service Display Name** and select **Yes** or **No** for **Start the service automatically**. The **Install Service Summary** window is displayed when you click **Next**.
- 4 Click **Next** on the summary window.
- 5 To complete the installation, choose **Exit** and Click **Next**.

For some SmartConnectors, a system restart is required before the configuration settings you made take effect. If a **System Restart** window is displayed, read the information and initiate the system restart operation.



Save any work on your computer or desktop and shut down any other running applications (including the ArcSight Console, if it is running), then shut down the system.

For instructions about upgrading the connector or modifying parameters, see the *SmartConnector User Guide*.

Run the SmartConnector

SmartConnectors can be installed and run in stand-alone mode, on Windows platforms as a Windows service, or on UNIX platforms as a UNIX daemon, depending upon the platform supported. On Windows platforms, SmartConnectors also can be run using shortcuts and optional Start menu entries.

If the connector is installed in stand-alone mode, it must be started manually and is not automatically active when a host is restarted. If installed as a service or daemon, the connector runs automatically when the host is restarted. For information about connectors running as services or daemons, see the *ArcSight SmartConnector User Guide*.

To run all SmartConnectors installed in stand-alone mode on a particular host, open a command window, go to `$ARCSIGHT_HOME\current\bin` and run: `arcsight connectors`

To view the SmartConnector log, read the file `$ARCSIGHT_HOME\current\logs\agent.log`; to stop all SmartConnectors, enter `Ctrl+C` in the command window.

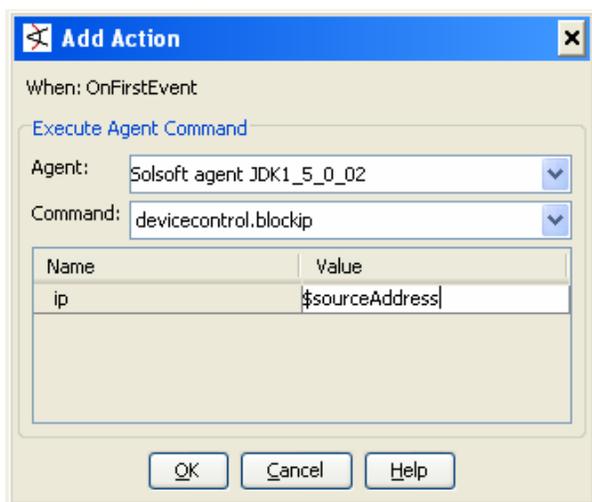
Troubleshooting

This section describes the most common problems you may encounter when installing and configuring the connector. The descriptions include suggested solutions for resolving problems. If you cannot resolve problems using this information, consult ArcSight Support.

Generate the Correct ArcSight Rule

An ArcSight correlation rule action should be generated before you expect the SmartConnector for Solsoft Policy Server Control to work.

When you create or modify a rule, you can add a new action to have the Solsoft Policy Server block an IP or service port. For example, the following 'Action' will block the source address if this rule is triggered:

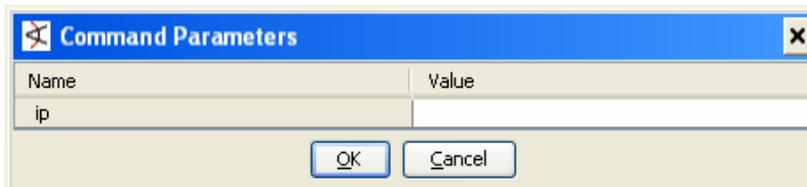


Check Action Manually

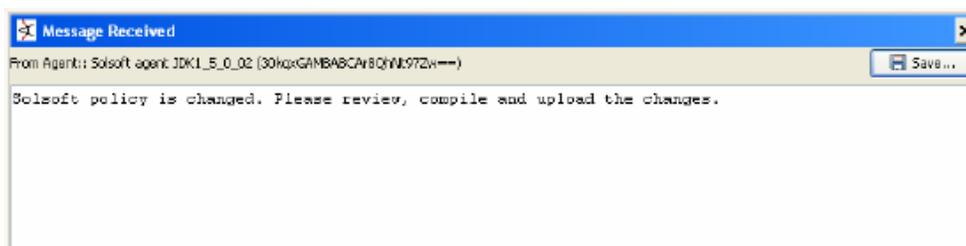
For troubleshooting, you can check the action's execution without creating a rule. You can do this through ArcSight ESM Console:

- From the connector list, choose the SmartConnector for Solsoft Policy Server.
- Right click and select **Send Command**.
- Select **Device Policy Control**.
- Choose one of following actions:
 - ◆ Block IP
 - ◆ Block Service
 - ◆ Allow IP
 - ◆ Allow Service
 - ◆ Get Status

For example, you will a windows such as the following when you select 'Block IP':

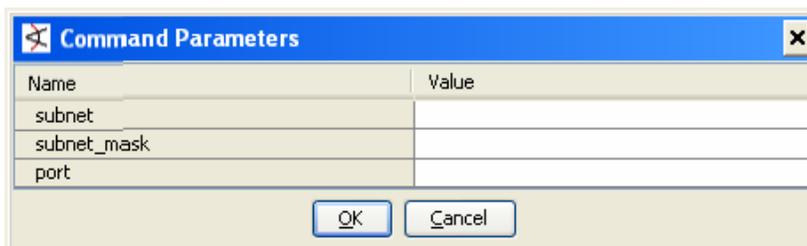


Enter the IP manually and click **OK** to send the command to the SmartConnector. After a while, the following window is displayed containing the action result:



Current SmartConnector Limitations

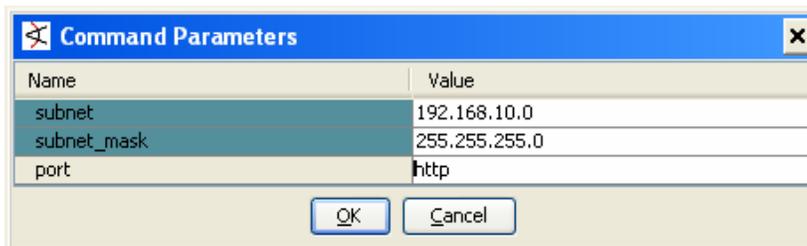
- 1 For Policy Server version 6.0, auto upload is not implemented. Changes made to the Solsoft Policy Server's policy are not uploaded to PEP automatically. Instead, an ArcSight internal event [Solsoft policy is changed. Please review, compile and upload the changes.](#) is sent. The choice to automatically upload policy changes is available with Solsoft Policy Server version 7.0.
- 2 The port field can accept service name only. When you try to block a service port, the following parameter window is displayed:



Enter the subnet for the first field and subnet mask for the second field. For the third field, enter the service name for the corresponding port rather than the port number.

You can find the service name from Solsoft Security Designer window. If there is no service name for a specific port number, you should create it from Solsoft Security Designer before you use it.

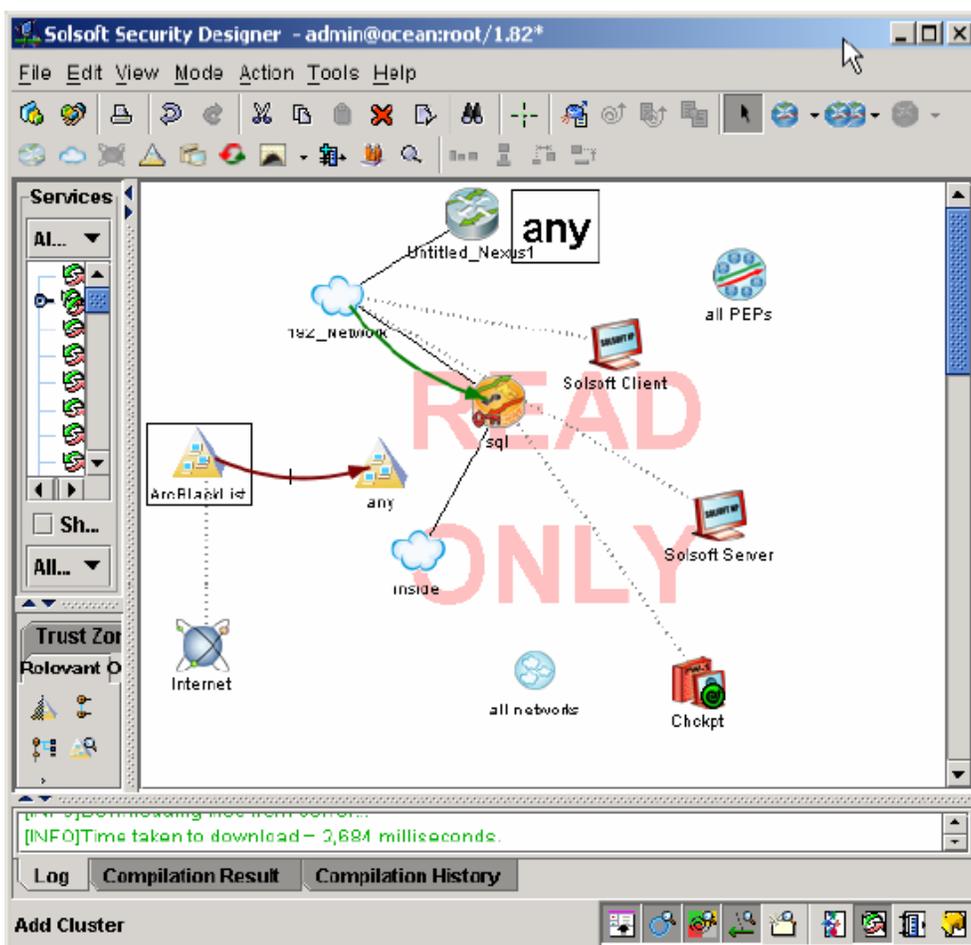
For example, the following parameters block traffic to port 80 of any machine in subnet 192.168.10.0 (255 addresses):



Check policy changes from Solsoft Security Designer

Any ArcSight change can be reviewed from Solsoft Security Designer before you compile and upload it. We create a class called 'ArcBlackList' to hold all blocked IPs. These blocked IPs will not have permission to access class 'any'.

The following is a screen shot from Solsoft Security Designer about 'ArcBlackList' and its relationship with other classes:



If you double-click 'ArcBlackList', a windows such as the following showing all IPs is displayed:

