



Cisco Secure Network Analytics

ASA Integration for NSEL Export to Secure Network Analytics 7.4



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Overview

This document provides configuration options necessary to configure a Cisco Adaptive Security Appliance (ASA) to export NetFlow Secure Event Logging (NSEL) to the Stealthwatch flow collection infrastructure using the Adaptive Security Device Manager (ASDM). We tested the Stealthwatch System with an ASA running ASA OS v9.1(5) and ASDM v7.1(4).



In v7.4.0 we rebranded our Cisco Stealthwatch Enterprise products to Cisco Secure Network Analytics. For a complete list, refer to the [Release Notes](#). In this guide, you will see our former product name, Stealthwatch, used whenever necessary to maintain clarity, as well as terminology such as Stealthwatch Management Console and SMC.

Audience

This document is intended for personnel who need to configure a Cisco ASA to send data to Stealthwatch.

Before You Begin

Before you can complete the procedures in this document, you need the following information:

- IP address of the Stealthwatch Flow Collector that will receive data from the ASA
- Interface on the ASA that will be sending data to the Flow Collector
- UDP port number used to forward NetFlow

Process Overview

The configuration process includes completing the following procedures as detailed in this document:

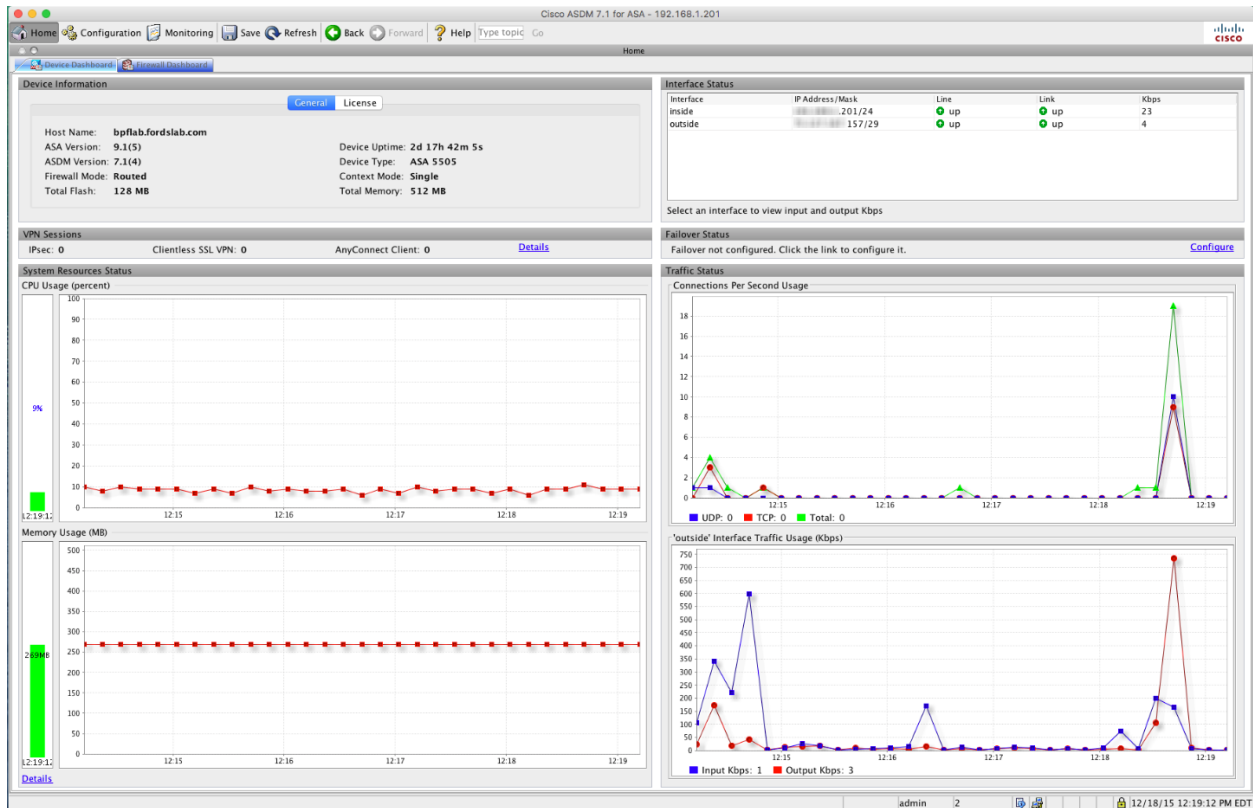
[Define the NetFlow export options.](#)

[Configure the NetFlow creation criteria.](#)

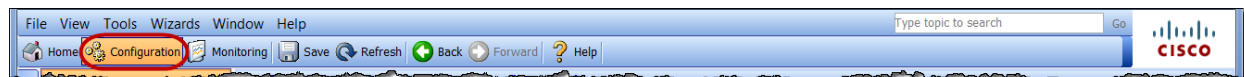
Define the NetFlow Export Options

Complete the following steps to set the various options related to the export of NetFlow data from the ASA, including relevant timers and destinations.

1. Log in to the ASDM. The Home page opens.

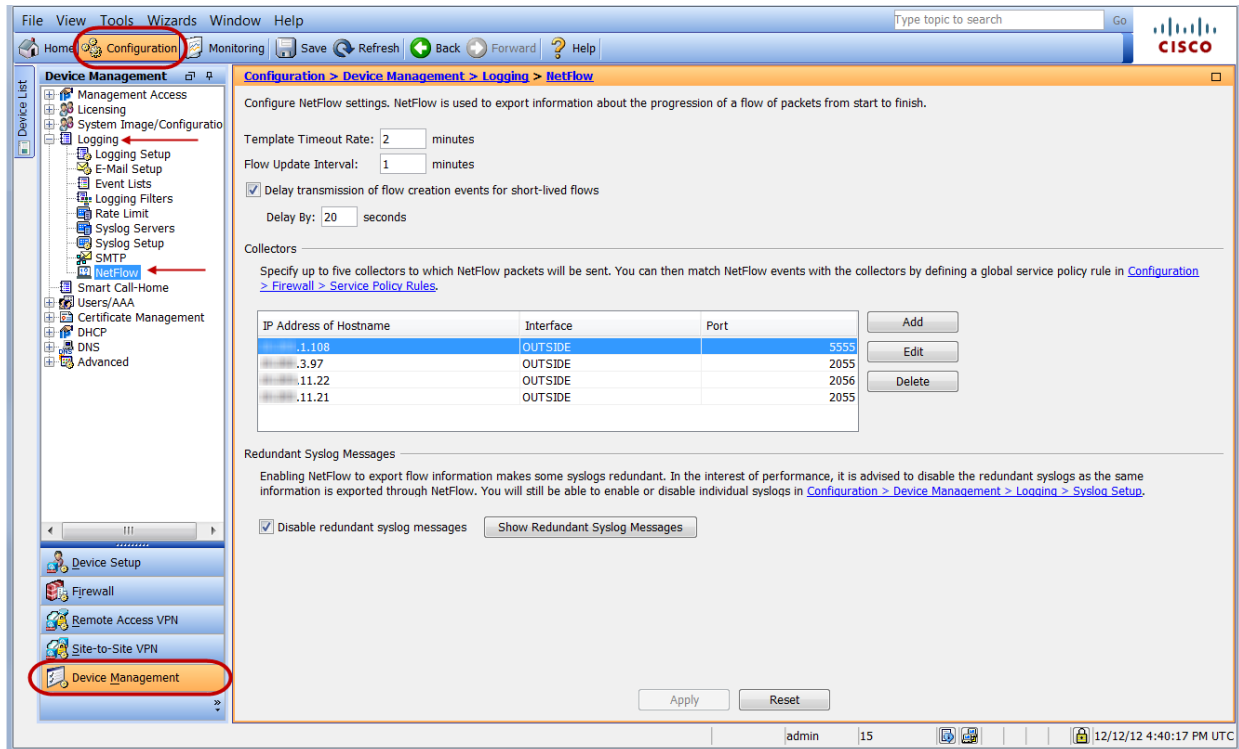


2. Click **Configuration** to open the Configuration page.



3. Complete the following steps to access the Netflow page.
 - a. At the bottom of the left navigation pane, click **Device Management**.
 - b. In the tree in the left navigation pane, select **Logging > NetFlow**.

The NetFlow page opens.



4. Do the following:

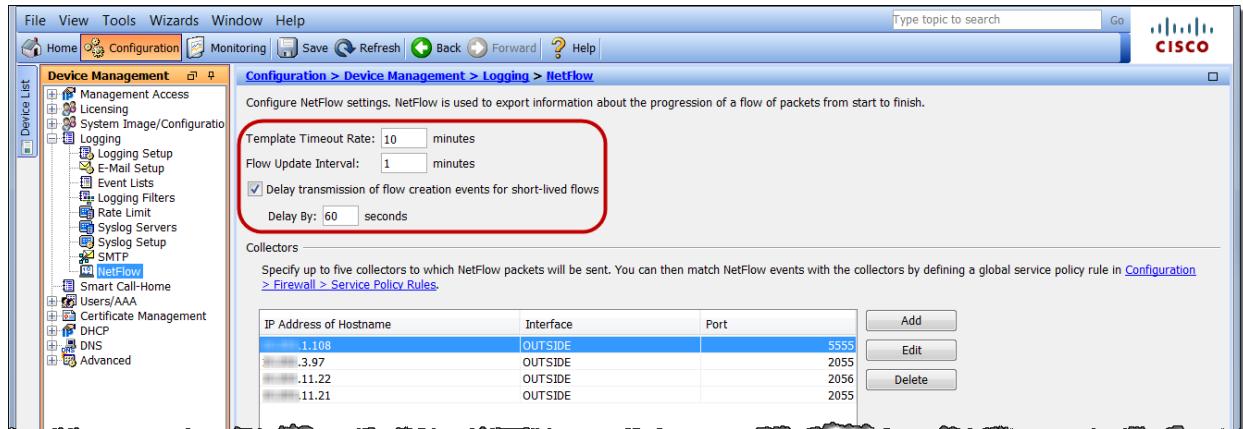
- In the Template Timeout Rate field, define the frequency that template updates will be sent from the ASA.
 - We recommend setting this value to 5 minutes or less. In the example below, a template update will occur every 10 minutes.
- In the Flow Update Interval field, define the frequency that status updates for long-lived flows will be sent from ASA.
 - We recommend setting this value to 1 minute.
- Select the “Delay transmission of flow creation events for short-lived flows” check box.
- In the Delay By field, type **60** to set the amount of time that records are held in cache to 60 seconds. This value matches the recommended Active Timeout value and causes the following to occur:
 - Reduces the number of flow events exported from the ASA.
 - Reduces the licensing implications without significantly changing data reporting.

If the “Delay transmission of flow creation events for short-lived flows” check box is selected, and the flow expires before 60 seconds after the flow

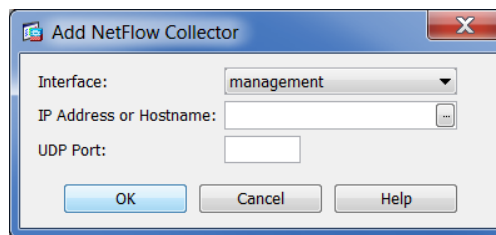
creation event, then only one record will be sent (rather than one sent for flow creation and one sent for teardown).



Please contact your Cisco ASA support team if specific concerns about performance implications exist in your environment.



5. Click **Add**. The Add NetFlow Collector dialog opens.



6. Complete the fields as specified below:

- In the Interface field, click the drop-down arrow to define which interface on the ASA will send NetFlow data to the Flow Collector.
- In the IP Address or Hostname field, type the IP address of the Flow Collector that will receive data from the ASA.
- In the UDP Port field, type the port number that will be used to forward NetFlow.

7. Click **OK**. The Netflow page opens with the new Flow Collector information shown in the Collectors section.

8. For performance reasons, we recommend that you clear the “Disable redundant syslog messages” check box. However, you should review any specific performance concerns you have with your Cisco support team.

The screenshot shows the Cisco NetFlow configuration interface. On the left is a navigation tree with 'NetFlow' selected. The main area is titled 'Collectors' and contains a table with the following data:

IP Address of Hostname	Interface	Port
1.108	OUTSIDE	5555
3.97	OUTSIDE	2055
11.22	OUTSIDE	2056
11.21	OUTSIDE	2055

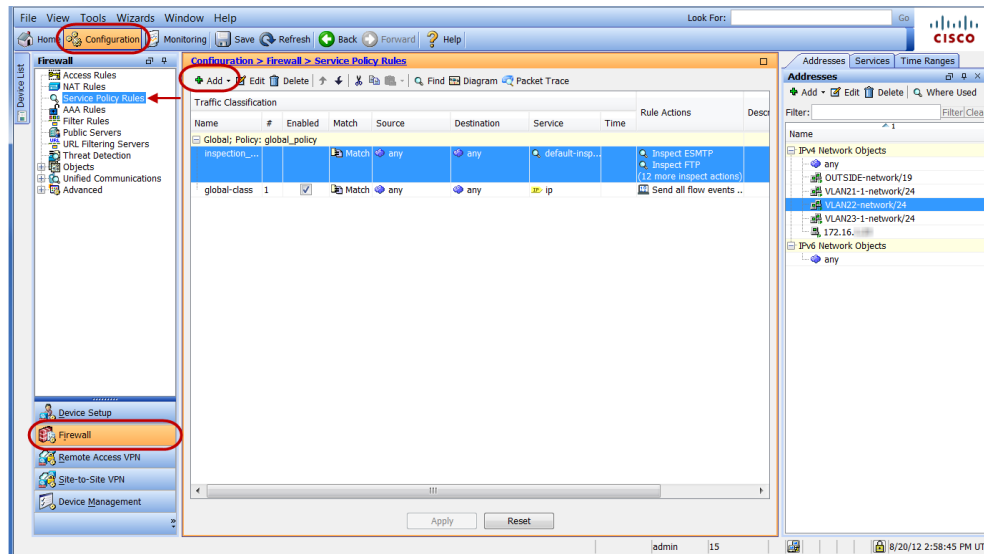
Below the table, the 'Redundant Syslog Messages' section is visible. The checkbox 'Disable redundant syslog messages' is checked and circled in red. Other options include 'Show Redundant Syslog Messages', 'Apply', and 'Reset' buttons.

9. Go to [“Configure NetFlow Creation Criteria”](#) next in this guide.

Configure NetFlow Creation Criteria

Complete the following steps to define the criteria for creating NetFlow events that can be exported to the previously defined Flow Collector.

1. At the bottom of the left navigation pane, click **Firewall**.
2. In the tree in the left navigation pane, click **Service Policy Rules** to display that page.



3. In the tool bar, click **Add**. The Add Service Policy Rule Wizard: Service Policy page opens.

Add Service Policy Rule Wizard - Service Policy

Adding a new service policy rule requires three steps:
Step 1: Configure a service policy.
Step 2: Configure the traffic classification criteria for the service policy rule.
Step 3: Configure actions on the traffic classified by the service policy rule.

Create a Service Policy and Apply To: _____

Only one service policy can be configured per interface or at global level. If a service policy already exists, then you can add a new rule into the existing service policy. Otherwise, you can create a new service policy.

Interface: Net23 - (create new service policy) ▼
Policy Name: Net23-policy
Description: _____

Global - applies to all interfaces
Policy Name: global_policy *
Description: _____

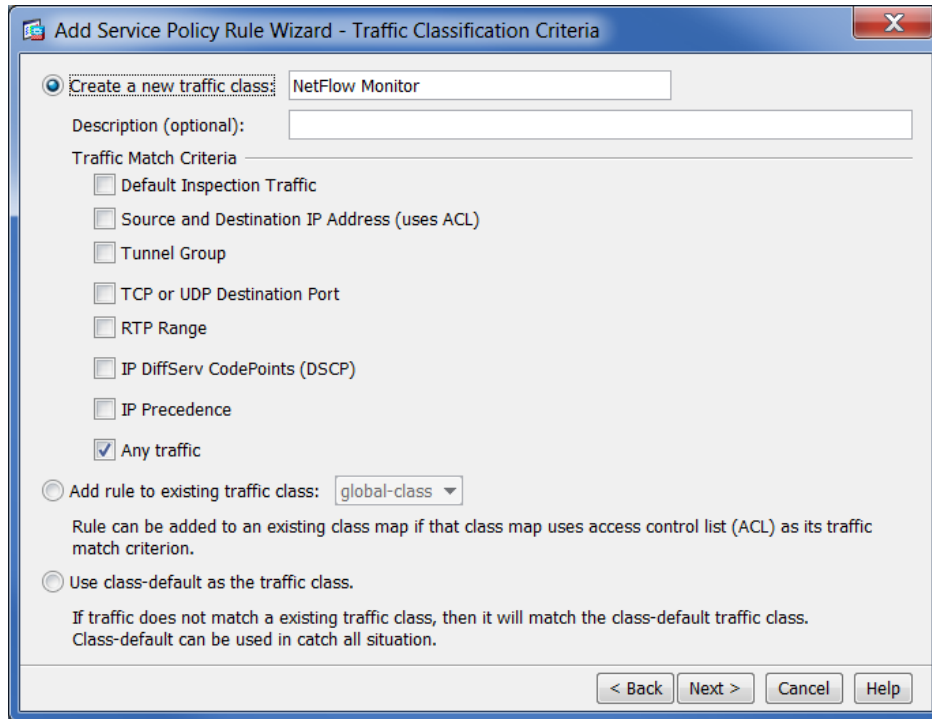
*Only one service policy is allowed. Existing service policy names cannot be changed.

< Back Next > Cancel Help

4. We recommend that you select the "Global – applies to all interfaces" option to allow the collection of NetFlow statistics for all ASA interfaces and to make the most use of the ASA firewall's NetFlow logging capability.

You can select specific interfaces to limit flow output and logging.

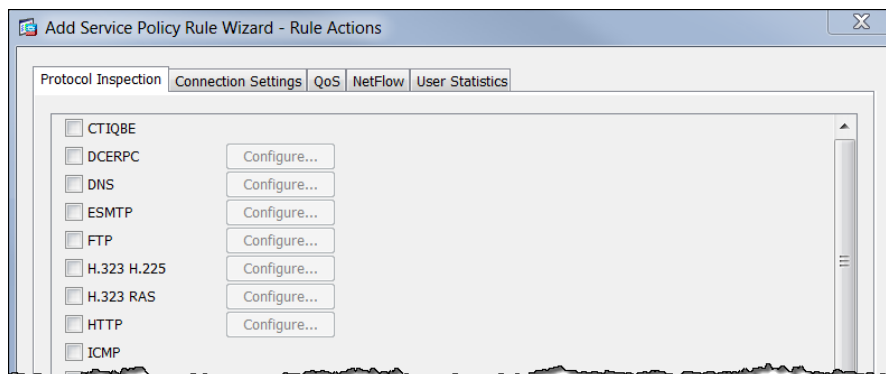
5. Click **Next**. The Add Service Policy Rule Wizard: Traffic Classification Criteria page opens.



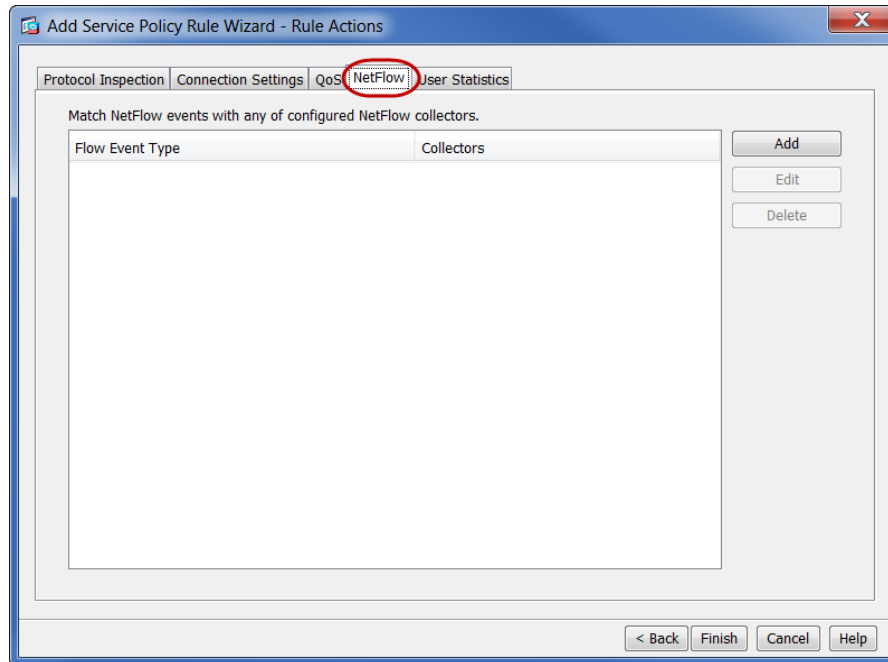
6. Do the following:

- Select the "Create a new traffic class" option.
- In the "Create a new traffic class" field, type NetFlow Monitor.
- Select the Any traffic check box to monitor all traffic types traversing the selected interfaces.

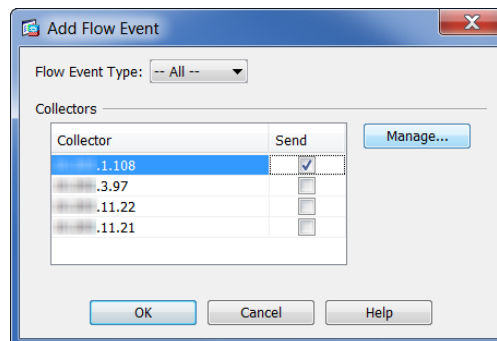
7. Click **Next**. The Add Service Policy Rule Wizard: Rule Actions page opens.



8. Click the **NetFlow** tab.



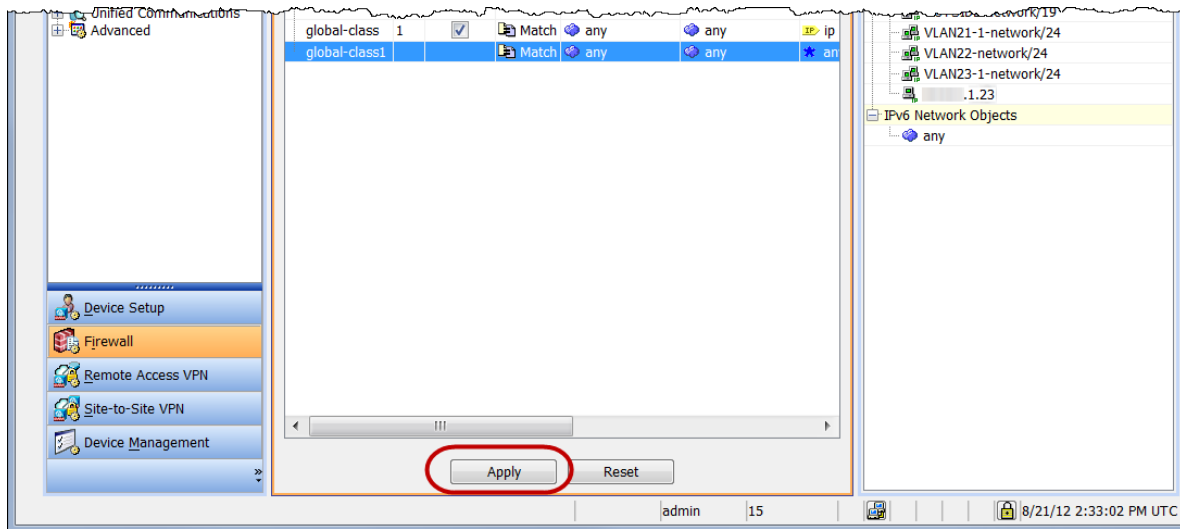
9. Click **Add**. The Add Flow Event dialog opens.



10. Do the following:

- In the Flow Event Type field, click the drop-down arrow and select **All**. This specifies that all types of NSEL records will be generated by the Cisco ASA.
- In the Collectors section, select the check box that corresponds to the IP address of the Flow Collector configured earlier.

11. Click **OK**. The Service Policy Rules page opens showing the new service policy.



12. Click **Apply**.

Contacting Support

If you need technical support, please do one of the following:

- Contact your local Cisco Partner
- Contact Cisco Support
- To open a case by web: <http://www.cisco.com/c/en/us/support/index.html>
- To open a case by email: tac@cisco.com
- For phone support: 1-800-553-2447 (U.S.)
- For worldwide support numbers:
<https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html>

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