

Standard Content Guide

Network Monitoring

for ArcSight ESM 5.2

June 28, 2012



Standard Content Guide - Network Monitoring

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Chapter 1

Network Monitoring Overview

This chapter discusses the following topics.

["What is Standard Content?" on page 5](#)

["Standard Content Packages" on page 6](#)

["Network Monitoring Content" on page 7](#)

What is Standard Content?

Standard content is a series of coordinated resources (filters, rules, dashboards, reports, and so on) that address common security and management tasks. Standard content is designed to give you comprehensive correlation, monitoring, reporting, alerting, and case management out of the box with minimal configuration. The content provides a full spectrum of security, network, and configuration monitoring tasks, as well as a comprehensive set of tasks that monitor the health of the system.

The standard content is installed using a series of packages, some of which are installed automatically with the Manager to provide essential system health and status operations. The remaining packages are presented as install-time options organized by category.

Standard content consists of the following:

- **ArcSight System** content is installed automatically with the Manager and consists of resources required for basic security processing functions, such as threat escalation and priority calculations, as well as basic throughput channels required for out-of-the-box functionality.
- **ArcSight Administration** content is installed automatically with the Manager, and provides statistics about the health and performance of ArcSight products. ArcSight Administration is essential for managing and tuning the performance of content and components.
- **ArcSight Foundations** content (such as Configuration Monitoring, Intrusion Monitoring, Network Monitoring, NetFlow Monitoring, and Workflow) are presented as install-time options and provide a coordinated system of resources with real-time monitoring capabilities for a specific area of focus, as well as after-the-fact analysis in the form of reports and trends. You can extend these foundations with additional resources specific to your needs or you can use them as a template for building your own resources and tasks.
- **Shared Libraries** - ArcSight Administration and several of the ArcSight Foundations rely on a series of common resources that provide core functionality for common

security scenarios. Dependencies between these resources and the packages they support are managed by the Package resource.

- ◆ Anti-Virus content is a set of filters, reports, and report queries used by ArcSight Foundations, such as Configuration Monitoring and Intrusion Monitoring.
- ◆ Conditional Variable Filters are a library of filters used by variables in standard content report queries, filters, and rule definitions. The Conditional Variable Filters are used by ArcSight Administration and certain ArcSight Foundations, such as Configuration Monitoring, Intrusion Monitoring, Network Monitoring, and Workflow.
- ◆ Global Variables are a set of variables used to create other resources and to provide event-based fields that cover common event information, asset, host, and user information, and commonly used timestamp formats. The Global Variables are used by ArcSight Administration and certain ArcSight Foundations.
- ◆ Network filters are a set of filters required by ArcSight Administration and certain ArcSight Foundations, such as Intrusion Monitoring and Network Monitoring.

Standard Content Packages

Standard content comes in packages (.arb files) that are either installed automatically or presented as an install-time option. The following graphic outlines the packages.

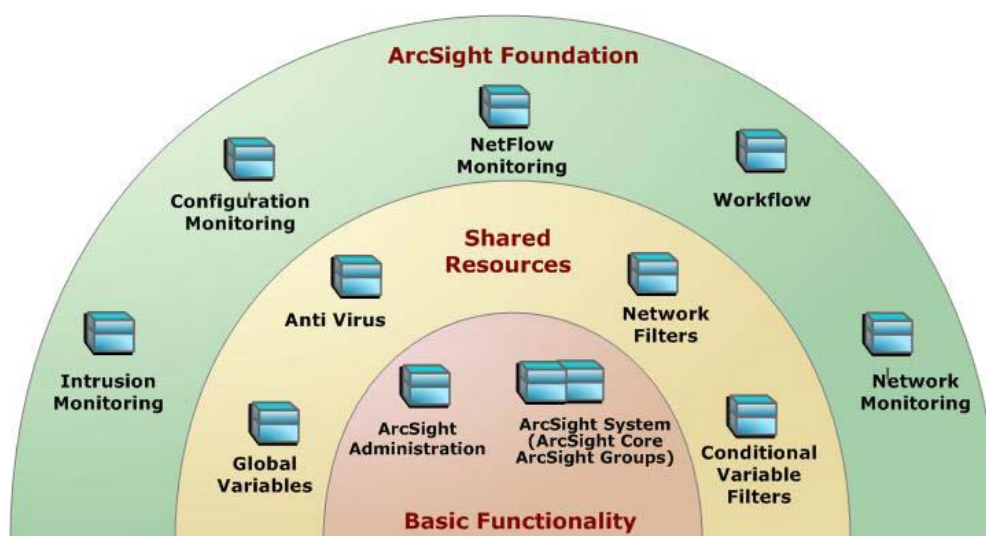


Figure 1-1 The ArcSight System and ArcSight Administration packages at the base provide content required for basic ArcSight functionality. The common packages in the center contain shared resources that support ArcSight Administration and the ArcSight Foundation packages. The packages shown on top are ArcSight Foundations that address common network security and management scenarios.

Depending on the options you install, you will see the ArcSight System resources, the ArcSight Administration resources, and some or all of the other package content.



The ArcSight Express package is present in ESM installations, but is not installed by default. The package offers an alternate view of the Foundation resources. You can install or uninstall the ArcSight Express package without impact to the system.



When creating your own packages, you can explicitly include or exclude system resources in the package. Exercise caution if you delete packages that might have system resources; for example, zones. Make sure the system resources either belong to a locked group or are themselves locked. For more information about packages, refer to the *ArcSight Console User's Guide*.

Network Monitoring Content

The Network Monitoring content monitors the status of network throughput and network infrastructure. This content provides statistics about traffic patterns and bandwidth usage that helps you identify anomalies and areas of the network that need attention. The Network Monitoring content can help you:

- Keep the network up and running
- Ensure maximum availability of mission-critical server applications and vital network resources
- Validate the existence and availability of any network object
- Observe and detect any object in error state
- Monitor common and custom TCP/IP ports
- Evaluate network productivity and utilization of network resources
- Assess impact of changes to the network
- Track network anomaly and security vulnerabilities

Supported Devices

The Network Monitoring content is built around feeds from the ArcSight SmartConnector that collects events from Qosient Argus, which is a real-time flow monitor. It monitors all network transactions seen in a data network traffic stream. For more information about Qosient Argus, see <http://www.qosient.com/argus/>.

The Argus device detects a transaction from point A to point B and stores the information in the following Argus-specific fields:

Argus event field	Description
lasttime	record last time
srcaddr	source IP address
dstaddr	destination IP address
sport	source port number
dport	destination port number
bytes	total transaction bytes
srcbytes	source-to-destination transaction bytes
dstbytes	destination-to-source transaction bytes

The ArcSight Argus SmartConnector maps this information to the correct fields in the ArcSight event schema, for example:

Argus event field	ArcSight event field
srcaddr	Attacker Address
dstaddr	Target Address
srcbytes	Bytes in
dstbytes	Bytes out

Calculating Bytes In and Bytes Out

One of the goals of the Network Monitoring content is to analyze how much traffic volume is coming into and going out of the network. Calculating this bandwidth usage involves keeping track of bytes in and bytes out of the network, from what sources, and at what rates.

Argus counts any request as "bytes in" and any response as "bytes out" regardless of where the requestor is located in relation to your protected network. For example, in the illustration below, Point A initiates the request to Point B, and Point C initiates the request to Point A. Both are considered by Argus to be "bytes in."

But as a network administrator, you are also interested in traffic volume outbound *from* and inbound *to* your protected network, illustrated by the blue and red arrows in the example below.

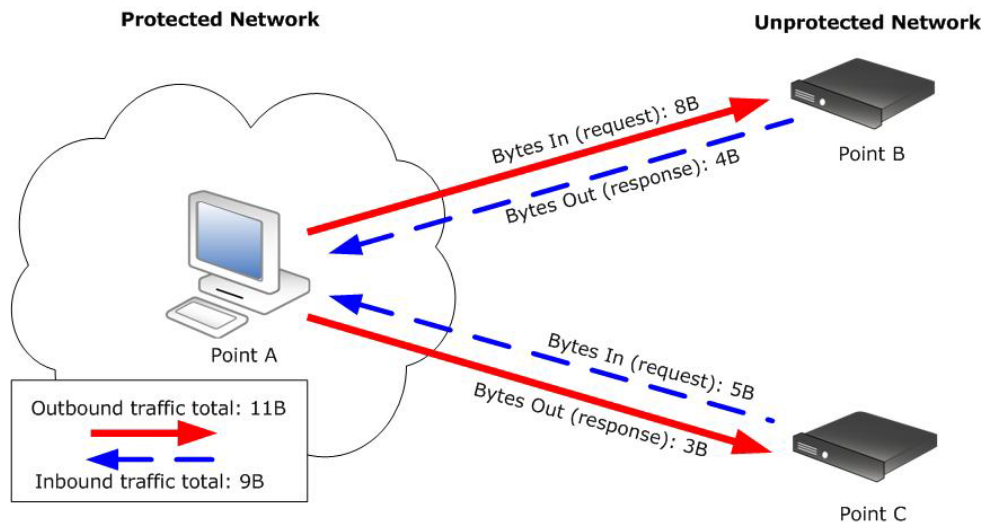


Figure 1-1 ArcSight variables ensure that Argus byte counts for "bytes in" and "bytes out" correspond with the network notion of inbound traffic and outbound traffic.

To make sure that the byte counts for Argus "bytes in" and "bytes out" correspond with your network's notion of outbound traffic and inbound traffic, ArcSight has constructed a system of variables and filters that translate Argus "bytes in" and "bytes out" to traffic inbound to and outbound from your network.

The ArcSight `IncomingBytes` and `OutgoingBytes` variables take the Argus byte count of activity on the way out of the protected network and counts it as outbound traffic, and

activity coming into the protected network as inbound traffic. In the A-to-B case, it considers the byte count for Argus "bytes in" to be outbound traffic and considers the byte count for Argus "bytes out" to be inbound traffic. The A-to-C case matches: bytes in are counted as inbound traffic, and bytes out are counted as outbound traffic.

In the example, if you add the total bytes out from the network's perspective (after the values have been normalized by the ArcSight variables), you add the byte counts for the two red arrows, in this case, $8 + 3$, or 11. And the byte total for the inbound traffic is the sum of the two blue arrows: $4 + 5$, or 9.

Chapter 2

Installation and Configuration

This chapter discusses the following topics:

[“Installing the Network Monitoring Package” on page 11](#)

[“Configuring Network Monitoring Content” on page 12](#)

For information about upgrading standard content, see [Appendix A, Upgrading Standard Content, on page 59](#).

Installing the Network Monitoring Package

The Network Monitoring Foundation is one of the standard content packages that are presented as install-time options. If you selected all the standard content packages to be installed at installation time, the packages and their resources will be installed in the ArcSight database and available in the Navigator panel resource tree. The package icon in the Navigator panel package view will appear blue.

If you opted to exclude any packages at installation time, the package is imported into the ESM package view in the Navigator panel, but is not available in the resource view. The package icon in the package view will appear grey.

If you do not want the package to be available in any form, you can delete the package.

To install a package that is imported, but not installed:

- 1 In the Navigator panel Package view, navigate to the package you want to install.
- 2 Right-click the package and select **Install Package**.
- 3 In the Install Package dialog, click **OK**.
- 4 When the installation is complete, review the summary report and click **OK**.

The package resources are fully installed to the ArcSight database, the resources are fully enabled and operational, and available in the Navigator panel resource tree.

To uninstall a package that is installed:

- 1 In the Navigator Panel Package view, navigate to the package you want to uninstall.
- 2 Right-click the package and select **Uninstall Package**.
- 3 In the Uninstall Package dialog, click **OK**.

The progress of the uninstall displays in the Progress tab of the Uninstalling Packages dialog. If a message displays indicating that there is a conflict, select an option in the Resolution Options area and click **OK**.

- 4 When uninstall is complete, review the summary and click **OK**.

The package is removed from the ArcSight database and the Navigator panel resource tree, but remains available in the Navigator panel package view, and can be re-installed at another time.

To delete a package and remove it from the Console and the database:

- 1 In the Navigator Panel Package view, navigate to the package you want to delete.
- 2 Right-click the package and select **Delete Package**.
- 3 When prompted for confirmation of the delete, click **Delete**.

The package is removed from the Navigator panel package view.

Configuring Network Monitoring Content

The list below shows the general tasks you need to complete to configure Network Monitoring content with values specific to your environment.

- ["Configuring the SmartConnector to Aggregate Events" on page 12](#)
- ["Modeling the Network" on page 13](#)
- ["Categorizing Assets" on page 13](#)
- ["Enabling Rules" on page 14](#)
- ["Configuring Filters" on page 14](#)
- ["Ensuring Filters Capture Relevant Data" on page 16](#)
- ["Configuring Notification Destinations" on page 17](#)
- ["Configuring Notifications and Cases" on page 17](#)
- ["Scheduling Reports" on page 17](#)
- ["Configuring Trends" on page 17](#)

Configuring the SmartConnector to Aggregate Events

The Network Monitoring content is built around feeds from the ArcSight SmartConnector that collects events from Qosient Argus, which is a real-time flow monitor. It monitors all network transactions seen in a data network traffic stream.

To reduce the number of raw events that are sent from your network monitoring device to ArcSight, you can aggregate groups of events with the same characteristics using the [group by](#) option on the SmartConnector. You can perform this configuration from the ArcSight Console in the Connectors portion of the navigator panel.

For example, the attacker port (Argus [srcPort](#)) is often less interesting than the target port ([destPort](#)). If there are many events with the same target port and different attacker ports, you can aggregate the events, which combines the values that are the same, and nulls out the values that are different.

In the example below, the attacker ports are different, but the target ports, attacker IPs, and target IPs are the same for each event. In this case, the value in the attacker port column is null, and the values in the *Bytes in* column are summed.

Attacker port	Target port	Attacker IP	Target IP	Bytes in
3331	80	1.1.1.1	2.2.2.2	2

Attacker port	Target port	Attacker IP	Target IP	Bytes in
3332	80	1.1.1.1	2.2.2.2	3
3333	80	1.1.1.1	2.2.2.2	15
3334	80	1.1.1.1	2.2.2.2	9
NULL	80	1.1.1.1	2.2.2.2	29

This reduces the number of individual events that the system has to process, which improves performance and efficiency.



The Argus administrator can perform this aggregation on the Argus device itself using a RAGATOR script and a configuration file that specifies the fields you want to aggregate, those you want to nullify, and those you want to sum.

Modeling the Network

A network model keeps track of the network nodes participating in the event traffic. Modeling your network and categorizing critical assets using the standard asset categories is what activates some of the standard content and makes it effective.

There are several ways to model your network. For information about populating the network model, refer to the *ArcSight Console User's Guide* or the ESM online Help. To learn more about the architecture of the ESM network modeling tools, refer to the *ESM 101* guide.

Categorizing Assets

After you have populated your network model with assets, apply the standard asset categories to activate most of the standard content that uses these categories.

- Categorize all assets (or the zones to which the assets belong) that are internal to the network with the [/All Asset Categories/Site Asset Categories/Address Spaces/Protected](#) category.

Internal Assets are assets inside the company network. Assets that are not categorized as internal to the network are considered to be external. Make sure that you also categorize assets that have public addresses but are controlled by the organization (such as web servers) as *Protected*.



Assets with a private IP address (such as 192.168.0.0) are considered *Protected* by the system, even if they are not categorized as such.

- Categorize all assets that are considered *critical* to protect (including assets that host proprietary content, financial data, cardholder data, top secret data, or perform functions critical to basic operations) with the [/All Asset Categories/System Asset Categories/Criticality/High](#) or [Very High](#) category.

The asset categories most essential to basic event processing are those used by the Priority Formula to calculate the criticality of an event. Asset criticality is one of the four factors used by the Priority Formula to generate an overall event priority rating. For more about the Priority Formula and how it leverages these asset categories to help assign priorities to events, refer to the *ArcSight Console User's Guide* or the *ESM 101* guide.

- If you have created your own asset categories that are relevant to the top traffic dashboards, you can add those asset categories to the corresponding filter in [All Filters/ArcSight Foundation/Network Monitoring/Application Filters](#)).

Asset categories can be assigned to assets, zones, asset groups, or zone groups. If assigned to a group, all resources under that group inherit the categories.

You can assign asset categories individually using the Asset editor or in a batch using the Network Modeling wizard. For information about how to assign asset categories using the Console tools, refer to the *ArcSight Console User's Guide* or the online Help.

Enabling Rules

ESM rules trigger only if they are deployed in the [Real-Time Rules](#) group and are enabled. All of the Network Monitoring rules are deployed by default in the [Real-Time Rules](#) group and are also enabled.

To disable a rule:

- 1 In the Navigator panel, go to **Rules** and navigate to the Real-time Rules group.
- 2 Navigate to the rule you want to disable.
- 3 Right-click the rule and select **Disable Rule**.

Configuring Filters



Note

If you use only Argus, you do not need to perform this procedure.

The events that trigger the Network Monitoring content are controlled by the filters in the Connector Filters group ([\All Filters\ArcSight Foundation\Network Monitoring\Connector Filters](#)).

If you use a real-time flow monitoring device other than Argus, that device must also report Attacker, Target, Ports, Bytes in and Bytes out. You can then configure the SmartConnector filters to operate on events from that device.



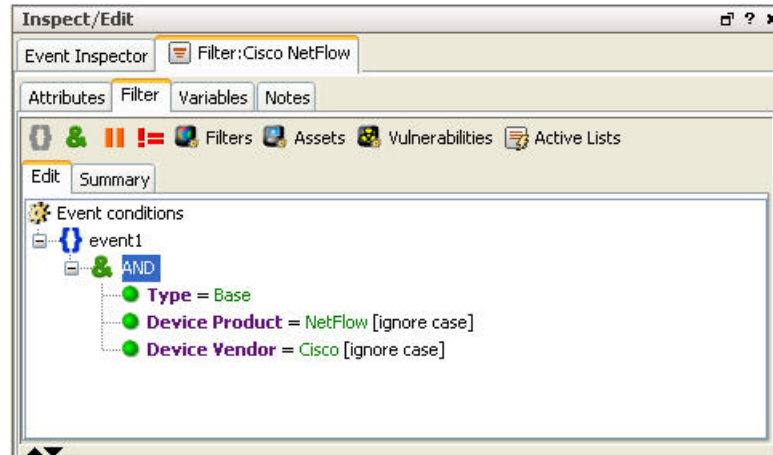
Note

If you have multiple network reporting devices, verify that any overlapping address spaces are defined through their own ArcSight network.

This procedure creates a new filter based on the *Qosient Argus* filter for each reporting device relevant to your network environment.

- 1 Copy the *Qosient Argus* filter: click and drag the filter into the same group; when prompted "Do you want to make a copy of this resource?" select **Yes**.
- 2 Modify the copy to reflect your network monitoring device and vendor.
 - a Open the copy in the Inspect/Edit panel. On the Attributes tab, rename the copy to indicate the name of your network reporting device; for example, [Cisco NetFlow](#).

- b** On the Filter tab in the Event conditions window, double-click the condition `Device Product = Argus [ignore case]`. Delete `Argus` and type in the name of your device as your device reports it to the ArcSight SmartConnector; for example, `NetFlow`. Click **OK**.
- c** In the Event conditions window, double-click the condition `Device Vendor = Qosient [ignore case]`. Delete `Qosient` and type in the name of your device as your device reports it to the ArcSight SmartConnector; for example, `Cisco`. Click **OK** in the condition. An example is shown below.




- d** Repeat [Step a](#) through [Step c](#) for each of your network monitoring devices.
- e** Click **OK** to apply changes and close the filter editor.

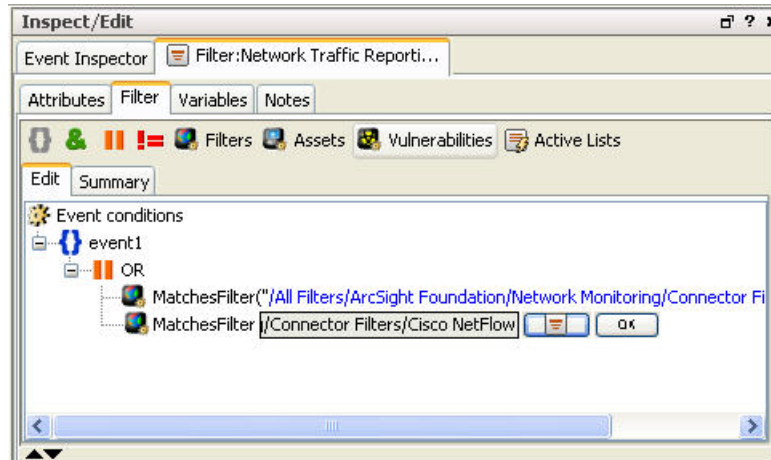


Note

Depending on how you want to organize your content, you can also express all your network reporting devices in a single filter. When adding vendors and products to the expression, add an **OR** clause to the `event1` base.

- 3** Modify the Network Traffic Reporting Devices filter to point to the filter(s) you created in [Step 2](#).
 - a** Open the Network Traffic Reporting Devices filter in the Inspect/Edit panel.
 - b** On the **Filter** tab in the Event conditions window, select `event1` and click the **OR** operator (||).
 - c** Select the first condition, `MatchesFilter("/All Filters/ArcSight Foundation/Network Monitoring/Connector Filters/Qosient Argus")`, and select **Copy** from the Edit menu.
 - d** Select the **OR** operator and select **Paste** from the Edit menu.
 - e** Double-click the second condition, `MatchesFilter("/All Filters/ArcSight Foundation/Network Monitoring/Connector`

Filters/Qosient Argus"). Click the filter button () and navigate to the filter you created in step 2. Click **OK**. An example is shown below.



- f** Repeat [Step 3](#) for each network monitoring filter you want to add. If you do not have Argus, you can remove the Qosient Argus filter from the **OR** statement (select it and press the **Delete** key).
- g** Click **OK** to apply changes and close the filter editor.

Ensuring Filters Capture Relevant Data

Standard content relies on specific event field values to identify events of interest. Although this method applies to most of the events and devices, be sure to test key filters to verify that they actually capture the required events.

To ensure that a filter captures the relevant events:

- 1** Generate or identify the required events and verify that they are being processed by viewing them in an active channel or query viewer.
- 2** Navigate to the appropriate filter, right-click the filter and choose **Create Channel with Filter**. If you see the events of interest in the newly created channel, the filter is functioning properly.

If you do not see the events of interest:

- a** Verify that the configuration of the active channel is suitable for the events in question. For example, ensure that the event time is within the start and end time of the channel.
- b** Modify the filter condition to capture the events of interest. After applying the change, repeat [Step 2](#) to verify that the modified filter captures the required events.

Configuring Notification Destinations

Configure notification destinations if you want to be notified when some of the standard content rules are triggered. By default, notifications are disabled in the standard content rules, so the admin user needs to configure the destinations *and* enable the notification in the rules. For details about enabling the notifications in rules, see ["Configuring Notifications and Cases" on page 17](#).

Network Monitoring rules reference the notification group CERT Team. Add new destinations for notification levels 1, 2, and 3 as appropriate to the personnel in your security operations center. Refer to the *ArcSight Console User's Guide* or the ESM online Help for information on how to configure notification destinations.

Configuring Notifications and Cases

ESM content depends on rules to send notifications and open cases when conditions are met. Notifications and cases are how users can track and resolve the security issues that the content is designed to find.

By default, the notifications and create case actions are disabled in the standard content rules that send notifications about security-related events to the Cert Team notification group.

To enable rules to send notifications and open cases, first configure notification destinations as described in [Configuring Notification Destinations](#) above, then enable the notification and case actions in the rules.

For more information about working with rule actions in the Rules Editor, refer to the *ArcSight Console User's Guide* or the ESM online Help.

Scheduling Reports

You can run reports on demand, automatically on a regular schedule, or both. By default, reports are not scheduled to run automatically.

Evaluate the reports that come with Network Monitoring, and schedule the reports that are of interest to your organization and business objectives. For instructions about how to schedule reports, refer to the *ArcSight Console User's Guide* or the ESM online Help.

Configuring Trends

Trends are a type of resource that can gather data over longer periods of time, which can be leveraged for reports. Trends streamline data gathering to the specific pieces of data you want to track over a long range, and breaks the data gathering up into periodic updates. For long-range queries, such as end-of-month summaries, trends greatly reduce the burden on system resources. Trends can also provide a snapshot of which devices report on the network over a series of days.

Network Monitoring content includes several trends, which are disabled by default. These disabled trends are scheduled to run on an alternating schedule between the hours of midnight and 7:00 a.m., when network traffic is usually less busy than during peak daytime business hours. These schedules can be customized to suit your needs using the Trend scheduler in the ArcSight Console.

To enable a trend, go to the Navigator panel, right-click the trend you want to enable and select **Enable Trend**.



Caution

To enable a disabled trend, you must first **change the default start date** in the Trend editor.

If the start date is not changed, the trend takes the default start date (derived from when the trend was first installed), and backfills the data from that time. For example, if you enable the trend six months after the first install, these trends try to get all the data for the last six months, which might cause performance problems, overwhelm system resources, or cause the trend to fail if that event data is not available.

For more information about trends, refer to the the *ArcSight Console User's Guide* or the ESM online Help.

Chapter 3

Network Monitoring Content

In this section, the Network Monitoring resources are grouped together based on the functionality they provide. The Network Monitoring resource groups are listed in the table below.

Resource Group	Purpose
"Bandwidth Usage" on page 20	The Bandwidth Usage resources provide information about bandwidth utilization.
"Device Activity" on page 27	The Device Activity resources provide information about firewall, network, and VPN connection activity.
"Hosts and Protocols" on page 34	The Hosts and Protocols resources provide information about the network traffic to the mail and web server by host and application protocol.
"SANS Top 5 Reports" on page 40	The SANS Top 5 Reports resources provide information about suspicious or unauthorized network traffic patterns.
"Traffic Overview" on page 46	The Traffic Overview resources provide an overview of network traffic.

Bandwidth Usage

The Bandwidth Usage resources provide information about bandwidth utilization.

Devices

The following device types can supply events that apply to the Bandwidth Usage resource group:

- Qosient Argus and network devices such as routers, firewalls, and VPNs

Resources

The following table lists all the resources in this resource group and any dependant resources.

Table 3-1 Resources that Support the Bandwidth Usage Group

Resource	Description	Type	URI
Monitor Resources			
Argus Events	This active channel shows all the events from Argus SmartConnectors within the past eight hours.	Active Channel	ArcSight Foundation/Network Monitoring/
Inbound Bandwidth	This dashboard shows an overview of the inbound bandwidth and contains three data monitors: Inbound Bandwidth - Last 10 Minutes, Inbound Bandwidth - Last Hour, and Inbound Bandwidth - Last Minute.	Dashboard	ArcSight Foundation/Network Monitoring/Bandwidth Usage/
Current Bandwidth	This dashboard shows an overview of the current bandwidth usage and contains two data monitors: Inbound Bandwidth - Last Minute and Outbound Bandwidth - Last Minute.	Dashboard	ArcSight Foundation/Network Monitoring/Bandwidth Usage/
Outbound Bandwidth	This dashboard shows an overview of the outbound bandwidth and contains three data monitors: Outbound Bandwidth - Last 10 Minutes, Outbound Bandwidth - Last Hour, and Outbound Bandwidth - Last Minute.	Dashboard	ArcSight Foundation/Network Monitoring/Bandwidth Usage/
Top Bandwidth Hosts	This report shows a summary of the bandwidth usage by the top hosts in a chart. The chart shows the average bandwidth usage by host for the previous day (by default). Use this report to find hosts with the highest bandwidth.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/ Cross-Device/

Resource	Description	Type	URI
Bandwidth Utilization - Last Hour	This report shows the bandwidth utilization for the last hour. The chart has two sets of values. The first set shows the number of bytes per second for the inbound traffic and the second set shows the number of bytes per second for the outbound traffic.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Bandwidth Usage by Protocol	This report displays the applications that are consuming the most bandwidth in a chart and a table. The chart shows the top ten protocols with the highest bandwidth usage. The table lists all the protocols sorted by bandwidth usage.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/ Cross-Device/
Bandwidth Usage by Hour	This report shows a summary of the bandwidth usage per hour in a chart. The chart shows the average bandwidth usage per hour for the past 24 hours (by default). Use this report to find high bandwidth usage hours during the day.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/ Cross-Device/
Bandwidth Utilization - Business Hours	This report shows the average bandwidth utilization during business hours. The first chart shows the average bytes per second for the incoming traffic and the second chart shows the average bytes per second for the outgoing traffic.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Bandwidth Utilization - Last 24 Hours	This report displays the bandwidth utilization for the last 24 hours. The first chart shows the number of bytes per second for the inbound traffic and the second chart shows the number of bytes per second for the outbound traffic.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Library Resources			
Protected	This is a site asset category.	Asset Category	Site Asset Categories/Address Spaces
Outbound Bandwidth - Last Minute	This data monitor shows the outbound bandwidth (bytes/sec) for the last minute. The bandwidth values are updated every five seconds.	Data Monitor	ArcSight Foundation/Network Monitoring/Bandwidth Usage/Current Bandwidth/
Outbound Bandwidth - Last Hour	This data monitor shows the average outbound bandwidth (bytes/sec) for the last hour. The values are updated every five minutes.	Data Monitor	ArcSight Foundation/Network Monitoring/Bandwidth Usage/Outbound Bandwidth/

Resource	Description	Type	URI
Inbound Bandwidth - Last Minute	This data monitor shows the inbound bandwidth (bytes/sec) for the last minute. The bandwidth values are updated every five seconds.	Data Monitor	ArcSight Foundation/Network Monitoring/Bandwidth Usage/Current Bandwidth/
Inbound Bandwidth - Last 10 Minutes	This data monitor shows the average inbound bandwidth (bytes/sec) for the last ten minutes. The values are updated every 30 seconds.	Data Monitor	ArcSight Foundation/Network Monitoring/Bandwidth Usage/Inbound Bandwidth/
Outbound Bandwidth - Last 10 Minutes	This data monitor shows the average outbound bandwidth (bytes/sec) for the last ten minutes. The values are updated every 30 seconds.	Data Monitor	ArcSight Foundation/Network Monitoring/Bandwidth Usage/Outbound Bandwidth/
Inbound Bandwidth - Last Hour	This data monitor shows the average inbound bandwidth (bytes/sec) for the last hour. The values are updated every five minutes.	Data Monitor	ArcSight Foundation/Network Monitoring/Bandwidth Usage/Inbound Bandwidth/
Argus	This field set shows a summary of the attacker and target hosts. This is the default field set for the Argus Events active channel.	Field Set	ArcSight Foundation/Network Monitoring/
Network Events	This filter identifies events with the category object starts with Network or the category device group starts with Network Equipment.	Filter	ArcSight Foundation/Common/Device Class Filters/
VPN Events	This filter identifies events with the category device group of VPN.	Filter	ArcSight Foundation/Common/Device Class Filters/
External Source	This filter identifies events originating from outside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Application Protocol is NULL	This filter identifies if the event target has an application protocol associated with it.	Filter	ArcSight Foundation/Common/Conditional Variable Filters/Protocol/
Outbound Events	This filter identifies events originating from inside the company network, targeting the outside network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/
Internal Source	This filter identifies events coming from inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
All Events	Filter that matches all events.	Filter	ArcSight System/Core
Internal Target	This filter identifies events targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/

Resource	Description	Type	URI
Inbound and Outbound Traffic	This filter detects Argus inbound events (external to internal) and Argus outbound events (internal to external). This filter is used by all the bandwidth-related moving average data monitors.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
Qosient Argus	This filter identifies events originating from Argus connectors.	Filter	ArcSight Foundation/Network Monitoring/Connector Filters/
Outbound Traffic	This filter detects Argus events originating inside the company network and targeting the outside network.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
Inbound Events	This filter identifies events coming from the outside network targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/
External Target	This filter identifies events targeting the outside network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Firewall Events	This filter retrieves events with the Firewall category device group.	Filter	ArcSight Foundation/Common/Device Class Filters/
Bandwidth to or from External Systems	This filter detects events in which the source or destination of the event is internal to the network (but one of them is external), and at least one of Bytes In or Bytes Out values is present.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
Inbound Traffic	This filter identifies Argus events originating from the outside network, targeting inside the company network.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
Network Traffic Reporting Devices	This filter identifies your network traffic reporting devices. The default network traffic reporting device is QoSient Argus.	Filter	ArcSight Foundation/Network Monitoring/Connector Filters/
Bandwidth Usage by Protocol	This report shows a summary of the bandwidth usage by application protocol in a chart and a table. The chart shows the top ten protocols with the highest bandwidth usage. The table lists all the protocols sorted by bandwidth usage.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/

Resource	Description	Type	URI
Bandwidth Usage per Hour	This report shows a summary of the bandwidth usage per hour in a chart. The chart shows the average bandwidth usage per hour for the previous day (by default). Use this report to find high bandwidth usage hours during the day.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/
Bandwidth Usage by Protocol	This report shows a summary of the bandwidth usage by application protocol in a chart and a table. The chart shows the top ten protocols with the highest bandwidth usage. The table lists all the protocols sorted by bandwidth usage.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/
Bandwidth Usage by Protocol	This report shows a summary of the bandwidth usage by application protocol in a chart and a table. The chart shows the top ten protocols with the highest bandwidth usage. The table lists all the protocols sorted by bandwidth usage.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/
Top Bandwidth Hosts	This report shows a summary of the bandwidth usage reported by firewalls by the top hosts in a chart. The chart shows the average bandwidth usage by host for the previous day (by default). Use this report to find the highest bandwidth hosts.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/
Bandwidth Usage per Hour	This report shows a summary of the bandwidth usage per hour in a chart. The chart shows the average bandwidth usage per hour for the previous day (by default). Use this report to find high bandwidth usage hours during the day.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/
Top Bandwidth Hosts	This report shows a summary of the bandwidth usage reported by firewalls by the top hosts in a chart. The chart shows the average bandwidth usage by host for the previous day (by default). Use this report to find the highest bandwidth hosts.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/
Top Bandwidth Hosts	This report shows a summary of the bandwidth usage reported by firewalls by the top hosts in a chart. The chart shows the average bandwidth usage by host for the previous day (by default). Use this report to find the highest bandwidth hosts.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/

Resource	Description	Type	URI
Bandwidth Usage per Hour	This report shows a summary of the bandwidth usage per hour in a chart. The chart shows the average bandwidth usage per hour for the previous day (by default). Use this report to find high bandwidth usage hours during the day.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Firewall/
Top Bandwidth Hosts	This query identifies the count of TotalBytes (Bytes In + Bytes Out) for each host, and sorts them so that the hosts with the highest totals are reported first. The query identifies events in which the Bytes In and Bytes Out fields are not empty and filters events using the Bandwidth to or from External Systems filter.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Bandwidth Utilization - By Minute	This query identifies the average number of bytes in and bytes out per second for the inbound and outbound traffic and groups the values by minute.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Overall Traffic	This query identifies the overall number of incoming bytes and outgoing bytes. The incoming bytes are the sum of the number of bytes in requests in the inbound events (external network to internal network) and the number of bytes in responses in the outbound events (internal network to external network). The outgoing bytes are the sum of the number of bytes in requests in the outbound events (internal network to external network) and the number of bytes in responses in the inbound events (external network to internal network). This query is used by the Overall Traffic trend.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Event Queries/
Bandwidth Usage by Protocol	This query identifies the count of TotalBytes (Bytes In + Bytes Out) by protocol. The query looks for events in which the Bytes In, Bytes Out, and Target Port fields are not empty, and filters events using the Bandwidth to or from External Systems filter.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Average Bandwidth Utilization - Business Hours	This query identifies the average number of bytes in and bytes out per second in the Overall Traffic Trend Table, and groups the values by hour during business hours (by default: 8:00 a.m. to 5:00 p.m.).	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Trend Queries/

Resource	Description	Type	URI
Bandwidth Usage per Hour	This query identifies the count of TotalBytes (Bytes In + Bytes Out) per hour. The query looks for events in which the Bytes In and Bytes Out fields are not empty and filters events using the Bandwidth to or from External Systems filter.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Bandwidth Utilization - By Hour	This query identifies the average number of bytes in and bytes out per second for inbound and outbound traffic, and groups the values by hour.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/
Overall Traffic	This trend stores the total number of incoming bytes and outgoing bytes per hour. The trend runs every day using the Overall Traffic query.	Trend	ArcSight Foundation/Network Monitoring/

Device Activity

The Device Activity resources provide information about firewall, network, and VPN connection activity.

Devices

The following device types can supply events that apply to the Device Activity resource group:

- Network devices such as routers, firewalls, and VPNs

Resources

The following table lists all the resources in the Device Activity resource group and any dependant resources.

Table 3-2 Resources that Support the Device Activity Group

Resource	Description	Type	URI
Monitor Resources			
Firewall Connection Overview	This dashboard shows an overview of all the denied connection events originating from firewalls. The dashboard displays the Top 10 denied Ports (Inbound), Top 10 Denied Ports (Outbound), Top 10 Hosts With Denied Inbound Connections, and Top 10 Hosts With Denied Outbound Connections data monitors.	Dashboard	ArcSight Foundation/Network Monitoring/Device Activity/
VPN Connection Statistics	This dashboard displays data monitors related to VPN Servers, including connection status counts and authentication errors.	Dashboard	ArcSight Foundation/Network Monitoring/Device Activity/
Network Status Overview	This dashboard displays data monitors related to network device errors, network interfaces, and critical network events.	Dashboard	ArcSight Foundation/Network Monitoring/Device Activity/
Connections Denied by Address	This report shows denied VPN connection data. A chart summarizes the top VPN device addresses with denied connections. A table shows details of the denied connections.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Connections Denied by Hour	This report shows denied VPN connection data. A chart summarizes the number of denied connections for each hour. A table shows details of the denied connections by hour.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/

Resource	Description	Type	URI
Device Interface Down Notifications	This report shows a table displaying the network devices that report a down link.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
Top VPN Event Sources	This report displays a table showing event information reported by VPN devices, excluding modification events.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Top VPN Event Destinations	This report displays a table showing event information reported by VPN devices, excluding modification events.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Device Interface Status Messages	This report shows the network devices reporting link status changes.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
Top VPN Access by User	This report displays information about VPN access, authorization or authentication events.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
VPN Connection Failures	This report displays information about VPN access where authorization or authentication failed.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Authentication Errors	This report shows errors generated by a VPN connection attempt. The address is the IP address of the VPN connection source. Use this report to see which users are having difficulties using or setting up their VPN clients.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Top VPN Events	This report displays event information reported by VPN devices, excluding modification events.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Device Events	This report shows information about events on network devices.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
Connections Accepted by Address	This report shows successful VPN connection data. A chart summarizes the top VPN device addresses with successful connections. A table shows details of the successful connections.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Device Errors	This report shows information about system errors on network devices. These events might be an indication of hardware failures, resource exhaustion, configuration issues or attacks.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/

Resource	Description	Type	URI
VPN Connection Attempts	This report displays information about events in which VPN access, authorization, or authentication did not result in failure.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Device Critical Events	This report shows information about critical events on network devices. These critical events might be an indication of hardware failures, resource exhaustion, configuration issues or attacks.	Report	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
Library Resources			
Protected	This is a site asset category.	Asset Category	Site Asset Categories/Address Spaces
Last 10 Interface Status Messages	This data monitor displays the last ten events reported by network devices related to network interfaces, ports, or links.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Network Status Overview/
Top 10 Hosts With Denied Outbound Connections	This data monitor shows the top ten hosts with denied outbound connections.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Firewall Connection Overview/
Top VPN Users with Authentication Errors	This data monitor tracks the number of VPN authentication error events for each VPN user (including the VPN server), every five minutes for an hour.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/VPN Connection Statistics/
Last 10 Critical Network Events	This data monitor displays the last ten events reported by network devices with an agent severity of high or very high.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Network Status Overview/
Top 10 Hosts With Denied Inbound Connections	This data monitor shows the top ten hosts with denied inbound connections.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Firewall Connection Overview/
Devices with High Error Rates	This data monitor tracks network device error rates over the last hour. The devices listed when this data monitor is displayed in a dashboard or in the resulting correlation events, have reported at least 3 errors within a five minute period.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Network Status Overview/
Last 10 Interface Down Messages	This data monitor displays the last ten events reported by network devices related to down network interfaces, ports, or links.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Network Status Overview/

Resource	Description	Type	URI
Top 10 Denied Ports (Outbound)	This data monitor shows the top ten ports with denied outbound connections.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Firewall Connection Overview/
Top VPN Servers with Denied Connections	This data monitor tracks the number of failed VPN connection events for each VPN server every five minutes for an hour.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/VPN Connection Statistics/
Top VPN Servers with Authentication Errors	This data monitor tracks the number of VPN authentication error events for each VPN server every five minutes for an hour.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/VPN Connection Statistics/
Top 10 Denied Ports (Inbound)	This data monitor shows the top ten ports with denied inbound connections.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/Firewall Connection Overview/
Top VPN Servers with Successful Connections	This data monitor tracks the number of successful VPN connection events for each VPN server every five minutes for an hour.	Data Monitor	ArcSight Foundation/Network Monitoring/Device Activity/VPN Connection Statistics/
Denied Outbound Connections	This filter identifies firewall events with the category behavior of /Access and category outcome of /Failure. The filter looks for outbound events.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/Firewall/
Target User ID is NULL	This filter is designed for conditional expression variables. The filter identifies events in which the Target User ID is NULL.	Filter	ArcSight Foundation/Common/Conditional Variable Filters/User/
External Source	This filter identifies events originating from outside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Failed VPN Connection Events	This filter identifies unsuccessful VPN events where the behavior is /Access/Start.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/VPN/
Outbound Events	This filter identifies events originating from inside the company network, targeting the outside network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/
Denied Inbound Connections	This filter identifies firewall events with the category behavior of /Access and category outcome of /Failure. The filter looks for inbound events.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/Firewall/
Internal Source	This filter identifies events coming from inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/

Resource	Description	Type	URI
Internal Target	This filter identifies events targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
All Events	Filter that matches all events.	Filter	ArcSight System/Core
Critical Network Events	This filter selects critical events related to network devices.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/Network/
Network Device Interface Status Events	This filter identifies events related to device interfaces, ports, or links. VPN events are excluded.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/Network/
Inbound Events	This filter identifies events coming from the outside network targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/
External Target	This filter identifies events targeting the outside network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Successful VPN Connection Events	This filter identifies successful VPN events in which the behavior is /Access/Start.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/VPN/
Target User Name is NULL	This filter identifies events where the Target User Name is NULL.	Filter	ArcSight Foundation/Common/Conditional Variable Filters/User/
Network Error Events	This filter identifies events related to network device errors.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/Network/
VPN Authentication Errors	This filter identifies VPN authentication error events in which an authentication error event is defined as having the category behavior of /Authentication/Verify and the category significance of /Informational/Error.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/VPN/
Network Device Interface Down Messages	This filter identifies device interface events stating that an interface, port, or link is down. VPN events are excluded.	Filter	ArcSight Foundation/Network Monitoring/Device Activity/Network/
Connections Accepted by Address	This query returns the device zone, address, host name, and a count of VPN devices with successful connections.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/Connections Accepted by Address/
Top VPN Event Sources	This query returns VPN events, excluding modification events.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/

Resource	Description	Type	URI
Device Interface Down Notifications	This query returns device information from network device events for network interfaces that are not VPN interfaces, where a link has been reported to be down and the inbound or outbound interface is defined.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
Device Errors	This query returns base error events in which the device group is Network Equipment or Operating System, and the object starts with Network.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
VPN Connection Attempts	This query returns events where the VPN access, authorization or authentication event did not result in failure.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Top VPN Event Destinations	This query returns VPN events, excluding modification events.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Top Connections Denied by Address	This query returns the device zone, address, and a count to show the top VPN devices with denied connections.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/Connections Denied by Address/
Authentication Errors	This query returns VPN authentication events in which there has been an error. The query returns the user information, the host information, the error, the time (within an hour), and the number of times the error occurred within the hour.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Device Events	This query returns base events in which the device group is Network Equipment or Operating System, and the object starts with Network.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
VPN Connection Failures	This query returns VPN events in which there is a VPN access, authorization, or authentication failure.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Device Critical Events	This query returns critical base events where the device group is Network Equipment or Operating System, and the object starts with Network.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
Top VPN Events	This query returns all events reported by VPN devices, excluding modification events.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/

Resource	Description	Type	URI
Top VPN Accesses by User	This query returns events for VPN access, authorization, or authentication.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/
Top Connections Accepted by Address	This query returns the device zone, address, and a count to show the top VPN devices with successful connections.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/Connections Accepted by Address/
Connections Denied by Address	This query returns the device zone, address, host name, and a count of VPN devices with denied connections.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/Connections Denied by Address/
Device Interface Status Messages	This query returns device information from network device events where the network interfaces are not VPN interfaces, where a link has been reported to be up or down and the inbound or outbound interface is defined.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/Network/
Connections Denied by Hour	This query returns the device zone, address, host name, and a count of VPN devices with denied connections.	Query	ArcSight Foundation/Network Monitoring/Details/Device Activity/VPN/

Hosts and Protocols

The Hosts and Protocols resources provide information about the network traffic to the mail and web server by host and application protocol.

Devices

The following device types can supply events that apply to the Hosts and Protocols resource group:

- Qosient Argus and network devices such as routers, firewalls, and VPNs

Configuration

The Hosts and Protocols resource group requires the following configuration for your environment.

- To activate content that references email and web servers, categorize your email servers with the **Email** asset category, and your web servers with the **Web Server** asset category.

Resources

The following table lists all the resources in the Hosts and Protocols resource group and any dependant resources.

Table 3-3 Resources that Support the Hosts and Protocols Group

Resource	Description	Type	URI
Monitor Resources			
Top Traffic to Mail Server	This dashboard shows an overview of the traffic targeting internal hosts categorized as mail servers. This dashboard contains four data monitors: Top Traffic from External to Mail Server (Request), Top Traffic from External to Mail Server (Response), Top Traffic from Internal to Mail Server (Request), and Top Traffic from Internal to Mail Server (Response).	Dashboard	ArcSight Foundation/Network Monitoring/General/
Traffic Moving Average	This dashboard shows a moving average of the ICMP, SYN, and UDP traffic. The dashboard contains three data monitors: Traffic Moving Average (ICMP), Traffic Moving Average (SYN), and Traffic Moving Average (UDP).	Dashboard	ArcSight Foundation/Network Monitoring/General/

Resource	Description	Type	URI
Top Traffic to Web Server	This dashboard shows an overview of the traffic targeting internal hosts categorized as web servers. This dashboard contains several data monitors: Top Traffic from External to Web Server (Request), Top Traffic from External to Web Server (Response), Top Traffic from Internal to Web Server (Request), and Top Traffic from Internal to Web Server (Response).	Dashboard	ArcSight Foundation/Network Monitoring/General/
Attacker Details by Protocol	This report shows the top attackers for a specific application protocol. The report contains one chart and one table. The chart shows the top five attackers. The table shows details of the top attackers.	Report	ArcSight Foundation/Network Monitoring/Details/By Protocol/
Detailed Traffic by Protocol	This report shows the traffic for a specific application protocol. The report contains two charts and one table. The charts show the top five attackers and the top five targets. The table shows the top attacker-target pairs.	Report	ArcSight Foundation/Network Monitoring/Details/By Protocol/
Protocol Details by Host	This report shows the application protocol repartition for a specific host. The report contains one chart and one table. The chart shows the top five protocols with the total number of bytes (BytesIN + BytesOUT). The table shows details for the top protocols (BytesIN, BytesOUT, and Total Number of Bytes).	Report	ArcSight Foundation/Network Monitoring/Details/By Host/
Detailed Traffic by Host	This report shows a chart of the total bytes (in and out) by host, a chart of the total bytes by protocol, and a detailed table showing the bytes in, bytes out, and total bytes for each protocol by host.	Report	ArcSight Foundation/Network Monitoring/Details/By Host/
Target Details by Host	This report shows the top targets for a specific host. The report contains one chart and one table. The chart shows the top five targets. The table shows the details of the top targets.	Report	ArcSight Foundation/Network Monitoring/Details/By Host/
Target Details by Protocol	This report shows the top targets for a specific application protocol. The report contains one chart and one table. The chart shows the top five targets. The table shows details of the top targets.	Report	ArcSight Foundation/Network Monitoring/Details/By Protocol/

Resource	Description	Type	URI
Library Resources			
Email	This is a site asset category.	Asset Category	Site Asset Categories/Application/Type
Protected	This is a site asset category.	Asset Category	Site Asset Categories/Address Spaces
Web Server	This is a site asset category.	Asset Category	Site Asset Categories/Application/Type
Top Traffic from Internal to Mail Server (Request)	This data monitor shows the ten internal source hosts with the highest amount of traffic targeting internal hosts categorized as mail servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Mail Server/
Traffic Moving Average (TCP)	This data monitor shows a moving average of the incoming UDP traffic per minute for the last hour using 12 five-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Traffic Moving Average/
Top Traffic from Internal to Web Server (Request)	This data monitor shows the ten internal source hosts with the highest amount of traffic targeting internal hosts categorized as web servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Web Server/
Top Traffic from Internal to Web Server (Response)	This data monitor shows the ten internal source hosts with the highest amount of traffic targeting internal hosts categorized as web servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Web Server/
Top Traffic from External to Web Server (Request)	This data monitor shows the ten external source hosts with the highest amount of traffic targeting internal hosts categorized as web servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Web Server/
Traffic Moving Average (SYN)	This data monitor shows a moving average of the incoming SYN traffic (TCP connection requests) per minute for the last hour using 12 five-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Traffic Moving Average/
Top Traffic from External to Mail Server (Response)	This data monitor shows the ten external source hosts with the highest amount of traffic targeting internal hosts categorized as mail servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Mail Server/
Top Traffic from Internal to Mail Server (Response)	This data monitor shows the ten internal source hosts with the highest amount of traffic targeting internal hosts categorized as mail servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Mail Server/

Resource	Description	Type	URI
Top Traffic from External to Mail Server (Request)	This data monitor shows the ten external source hosts with the highest amount of traffic targeting internal hosts categorized as mail servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Mail Server/
Traffic Moving Average (ICMP)	This data monitor shows a moving average of the incoming ICMP traffic per minute for the last hour using 12 five-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Traffic Moving Average/
Top Traffic from External to Web Server (Response)	This data monitor shows the ten external source hosts with the highest amount of traffic targeting internal hosts categorized as web servers.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Top Traffic to Web Server/
Traffic Moving Average (UDP)	This data monitor shows a moving average of the incoming UDP traffic per minute for the last hour using twelve 5-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/General/Traffic Moving Average/
SYN Traffic	This filter identifies SYN (TCP transaction request) traffic.	Filter	ArcSight Foundation/Network Monitoring/Moving Average Filters/
Internal to Internal Traffic	This filter identifies Argus events internal to the company network.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
Application Protocol is NULL	This filter identifies if the event target has an application protocol associated with it.	Filter	ArcSight Foundation/Common/Conditional Variable Filters/Protocol/
External Source	This filter identifies events originating from outside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
External to Web Server	This filter identifies Argus events originating from the outside network, targeting internal hosts categorized as web servers.	Filter	ArcSight Foundation/Network Monitoring/Application Filters/Web Server/
UDP Traffic	This filter identifies UDP traffic.	Filter	ArcSight Foundation/Network Monitoring/Moving Average Filters/
TCP Traffic	This filter identifies TCP traffic.	Filter	ArcSight Foundation/Network Monitoring/Moving Average Filters/
Internal Source	This filter identifies events coming from inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/

Resource	Description	Type	URI
Internal to Web Server	This filter identifies Argus events originating from inside the company network, targeting internal hosts categorized as web servers.	Filter	ArcSight Foundation/Network Monitoring/Application Filters/Web Server/
Internal Target	This filter identifies events targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
External to Mail Server	This filter identifies Argus events originating from the outside network, targeting internal hosts categorized as mail servers.	Filter	ArcSight Foundation/Network Monitoring/Application Filters/Mail Server/
Internal to Mail Server	This filter identifies Argus events originating from inside the company network, targeting internal hosts categorized as mail servers.	Filter	ArcSight Foundation/Network Monitoring/Application Filters/Mail Server/
Qosient Argus	This filter identifies events originating from Argus connectors.	Filter	ArcSight Foundation/Network Monitoring/Connector Filters/
Internal to Internal Events	This filter retrieves events internal to the company network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/
Inbound Events	This filter identifies events coming from the outside network targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/
Network Traffic Reporting Devices	This filter identifies your network traffic reporting devices. The default network traffic reporting device is QoSient Argus.	Filter	ArcSight Foundation/Network Monitoring/Connector Filters/
Inbound Traffic	This filter identifies Argus events originating from the outside network, targeting inside the company network.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
ICMP Traffic	This filter identifies ICMP traffic.	Filter	ArcSight Foundation/Network Monitoring/Moving Average Filters/
Top Attacker-Target Pairs by Protocol	This query returns the attacker-target pairs with the highest number of total bytes (Bytes In + Bytes Out) for a specific application protocol and groups them by attacker address, attacker zone, target address and target zone.	Query	ArcSight Foundation/Network Monitoring/Details/By Protocol/

Resource	Description	Type	URI
Attacker Details by Protocol	This query returns the number of Bytes In, Bytes Out, and Total Bytes (Bytes In + Bytes Out) for a specific application protocol and groups them by attacker address and attacker zone.	Query	ArcSight Foundation/Network Monitoring/Details/By Protocol/
Top Attackers by Protocol	This query returns the attacker/zone with the highest number of total bytes (Bytes In + Bytes Out) for a specific application protocol.	Query	ArcSight Foundation/Network Monitoring/Details/By Protocol/
Target Details by Protocol	This query returns the number of bytes in, bytes out, and total bytes (Bytes In + Bytes Out) for a specific application protocol and groups them by target address and target zone.	Query	ArcSight Foundation/Network Monitoring/Details/By Protocol/
Protocol Details by Host	This query returns the number of bytes in, bytes out, and total bytes (Bytes In + Bytes Out) for a specific attacker address/zone and groups the values by protocol, target address, and target zone.	Query	ArcSight Foundation/Network Monitoring/Details/By Host/
Top Protocols by Host	This query returns the protocols with the highest number of total bytes (Bytes In + Bytes Out) for a specific attacker address/zone.	Query	ArcSight Foundation/Network Monitoring/Details/By Host/
Top Targets by Protocol	This query returns the target/zone with the highest number of total bytes (Bytes In + Bytes Out) for a specific application protocol.	Query	ArcSight Foundation/Network Monitoring/Details/By Protocol/
Target Details by Host	This query returns the number of bytes in, bytes out, and total bytes (Bytes In + Bytes Out) for a specific attacker address/zone, and groups the values by target address and target zone.	Query	ArcSight Foundation/Network Monitoring/Details/By Host/
Top Targets by Host	This query returns the target address/zone with the highest number of total bytes (Bytes In + Bytes Out) for a specific attacker address/zone.	Query	ArcSight Foundation/Network Monitoring/Details/By Host/

SANS Top 5 Reports

The SANS Top 5 Reports resources provide information about suspicious or unauthorized network traffic patterns.

Devices

The following device types can supply events that apply to the SANS Top 5 Reports resource group:

- Network devices such as routers, firewalls, and VPNs

Resources

The following table lists all the resources in the SANS Top 5 Reports resource group and any dependant resources.

Table 3-4 Resources that Support the SANS Top 5 Reports Group

Resource	Description	Type	URI
Monitor Resources			
Top Alerts from IDS and IPS	This report shows the top alerts coming from Intrusion Detection Systems (IDS) and Intrusion Prevention Systems (IPS).	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/
Top 10 Vulnerable Systems - Today	This report shows the top ten current vulnerable systems.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/
Top 5 IDS Signatures per Day	This report shows the Top five IDS signatures per day. You can focus this report by device vendor and product.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/
Top 5 Users with Failed Logins - Today	This report shows the top five users with the biggest number of failed logins attempts.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/
Total Number of Vulnerable Systems - Yearly	This report shows the total number of vulnerable systems by week for a given year.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/Trend Reports/

Resource	Description	Type	URI
Total Number of Vulnerable Systems - Monthly	This report shows the total number of vulnerable systems by week for a given month.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/Trend Reports/
Top 5 IDS Signature Destinations per Day	This report shows the top five IDS signature destinations per day.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/
Top 5 IDS Signature Sources per Day	This report shows the Top five IDS signature sources per day.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/
Number of Failed Logins - Weekly	This report shows the number of failed logins per day for a given week.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Trend Reports/
Vulnerability Scanner Logs - by Host	This report shows vulnerability scanner logs grouped by zone and host IP address. You can focus this report by device vendor and device product. The report defaults to the McAfee FoundScan device.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/
Top 10 Talkers	This report shows the Top ten talkers and a detailed list of the top talkers.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/
Number of Failed Logins - Daily	This report shows the number of failed logins per hour for a given day.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Trend Reports/
Top 5 Users with Failed Logins - Weekly	This report shows the top five users with the biggest number of failed login attempts for a given week.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Trend Reports/

Resource	Description	Type	URI
Top Target IPs	This report shows the top ten target IP addresses with a detailed list of the top targets.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/
Vulnerability Scanner Logs - by Vulnerability	This report shows vulnerability scanner logs grouped by vulnerability IDs and names. You can focus this report by device vendor and device product. The report defaults to the McAfee FoundScan device.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/
Top 5 Users with Failed Logins - Daily	This report shows the top five users with the biggest number of failed login attempts for a given day.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Trend Reports/
Number of Failed Logins - Today	This report shows the number of failed logins per hour for the last day.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/
Top 10 Vulnerable Systems - Weekly	This report shows the top ten vulnerable systems for a given week.	Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/Trend Reports/
Library Resources			
IDS -IPS Events	This filter identifies Intrusion Detection System (IDS) and Intrusion Prevention System (IPS) events.	Filter	ArcSight Foundation/Intrusion Monitoring/Attack Monitoring/
Attack Events	This filter identifies events where the category significance starts with Compromise or Hostile.	Filter	ArcSight Foundation/Intrusion Monitoring/Attack Monitoring/
Scanner Events	This filter identifies events from network vulnerability scanners, where the events are defined as: Category Behavior = /Found/Vulnerable Category Device Group = /Assessment Tools Category Technique StartsWith /Scan Category Technique Contains vulnerability This filter is used by the Vulnerability Scanner Events active channel.	Filter	ArcSight Foundation/Intrusion Monitoring/Vulnerability View/
All Events	Filter that matches all events.	Filter	ArcSight System/Core

Resource	Description	Type	URI
Top 5 IDS Signatures per Day (Snort-Snort)	This report shows the top five Snort signatures per day in a chart.	Focused Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Focused Reports/
Top 5 Signatures per Day (CISCO-CiscoSecureIDS)	This report shows the top five Cisco Secure IDS signatures per day in a chart.	Focused Report	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Focused Reports/
Top Users with Failed Logins per Day	This query returns the day, the target user name, and the number of occurrences for failed authentication verifications.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Top Users with Failed Logins/Event Queries/
Failed Logins per Hour	This query returns the hour and the number of occurrences for failed authentication verifications.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Number of Failed Logins/Event Queries/
Top 10 Targets	This query returns the target zone name, target address, and the sum of the aggregated event count for events matching the Attack Events filter used in the following reports: Top N Targets, Top N Targets (3D Pie Chart), Top N Targets (Bar Chart), Top N Targets (Inverted Bar Chart), Top N Targets (Pie Chart), Top N Targets (Table and Chart), and Top N Targets (Table).	Query	ArcSight Foundation/Intrusion Monitoring/Detail/Attack Monitoring/Targets/Top and Bottom 10/
Failed Logins per Hour	This query returns the hour and the number of occurrences for failed authentication verifications.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Number of Failed Logins/Event Queries/

Resource	Description	Type	URI
Top Users with Failed Logins per Week	This query on the Top Users with Failed Logins per Day trend returns the sum of the number of failed logins for each username within the week.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Top Users with Failed Logins/Trend Queries/
Top IDS Signatures by IDS Product	This query on base /IDS/Network events for the device product and vendor Snort, returns the device event class ID and the count based on the end time. Snort is the default setting. You can select a different device vendor when running the report.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Top 5 IDS Signatures per Day/
Top Vulnerable Systems per Week	This query on the Number of Vulnerabilities per Asset trend returns the asset name, IP address, host name, and device zone name and averages the number of vulnerabilities associated with that device per week.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/Top Vulnerable Systems/Trend Queries/
Top IDS Signature Sources per Day	This query over base IDS/Network events returns the attacker address, attacker zone name, device vendor, device product, and the count of the events within the query timeframe.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Top 5 IDS Signature Sources per Day/
Top 10 Talkers	This query returns the attacker zone name, attacker address ,and the count of events in which the category significance starts with Compromise or Hostile. The query uses the sum of the aggregated event count instead of counting the EventID so that attackers are not split by the event name.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Top 10 Talkers/
Top IDS and IPS Alerts	This query returns IDS and IPS alert events, selecting the device event class ID, event name, device vendor, device product, and a count on the end time of the event.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Top Alerts from IDS/
Number of Vulnerabilities per Asset	This query on assets returns the asset name, IP address, host name, and device zone name and counts the number of vulnerabilities associated with that device.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/Top Vulnerable Systems/Asset Queries/

Resource	Description	Type	URI
Top IDS Signature Destinations per Day	This query over base IDS/Network events returns the target address, target zone name, device vendor, device product, and the count of the events within the query timeframe.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Top 5 IDS Signature Destinations per Day/
Number of Vulnerabilities per Week	This query on the Number of Vulnerabilities per Asset trend returns the asset name, IP address, host name, and device zone name and averages the number of vulnerabilities associated with that device per week.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/Total Number of Vulnerable Systems/Trend Queries/
Failed Logins per Day	This query on the Top Users with Failed Logins per Hour trend returns the sum of the number of failed logins for the day.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Number of Failed Logins/Trend Queries/
Vulnerability Scanner Logs	This query retrieves events for scanner events (defaulting to the McAfee FoundScan scanner) and returns the target address, the target zone name, the device event class ID, and the event (vulnerability) name.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/Vulnerability Scanner Logs - by Host/
Top Users with Failed Logins per Day	This query returns the day, the target user name, and the number of occurrences for failed authentication verifications.	Query	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/Top Users with Failed Logins/Event Queries/
Top Users with Failed Logins per Day	This trend stores the top 1000 users with the highest number of failed logins per day.	Trend	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/
Number of Vulnerabilities per Asset	This trend stores the number of vulnerabilities associated to an asset on a weekly basis.	Trend	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/4 - Systems Most Vulnerable to Attack/
Failed Logins per Hour	This trend stores the number of failed logins per hour and is scheduled for a daily run.	Trend	ArcSight Foundation/Intrusion Monitoring/SANS Top 5 Reports/1 - Attempts to Gain Access Through Existing Accounts/

Traffic Overview

The Traffic Overview resources provide an overview of network traffic.

Devices

The following device types can supply events that apply to the Traffic Overview resource group:

- Qosient Argus and network devices such as routers, firewalls, and VPNs

Resources

The following table lists all the resources in the Traffic Overview resource group and any dependant resources.

Table 3-5 Resources that Support the Traffic Overview Group

Resource	Description	Type	URI
Monitor Resources			
Top Inbound Traffic by Host	This dashboard shows an overview of the inbound traffic (external network to internal network) by source host. This dashboard contains the Top Inbound Traffic by Host (Request) and Top Inbound Traffic by Host (Response) data monitors.	Dashboard	ArcSight Foundation/Network Monitoring/Inbound Traffic/
Top Outbound Traffic by Application Protocol	This dashboard shows an overview of the outbound traffic (internal network to external network) by application protocol. This dashboard contains the Top Outbound Traffic by Application Protocol (Request) and Top Outbound Traffic by Application Protocol (Response) data monitors.	Dashboard	ArcSight Foundation/Network Monitoring/Outbound Traffic/
Outbound Traffic Moving Average	This dashboard shows a moving average of the outbound traffic (internal network to external network) for the last hour. This dashboard contains the Outbound Traffic Moving Average (Request) and Outbound Traffic Moving Average (Response) data monitors.	Dashboard	ArcSight Foundation/Network Monitoring/Outbound Traffic/
Inbound Traffic Moving Average	This dashboard shows a moving average of the inbound traffic (external network to internal network) for the last hour. This dashboard contains the Inbound Traffic Moving Average (Request) and Inbound Traffic Moving Average (Response) data monitors.	Dashboard	ArcSight Foundation/Network Monitoring/Inbound Traffic/

Resource	Description	Type	URI
Top Inbound Traffic by Application Protocol	This dashboard shows an overview of the inbound traffic (external network to internal network) by application protocol. This dashboard contains the Top Inbound Traffic by Application Protocol (Request) and Top Inbound Traffic by Application Protocol (Response) data monitors.	Dashboard	ArcSight Foundation/Network Monitoring/Inbound Traffic/
Top Outbound Traffic by Host	This dashboard shows an overview of the outbound traffic (internal network to external network) by source host. This dashboard contains the Top Outbound Traffic by Host (Request) and Top Outbound Traffic by Host (Response) data monitors.	Dashboard	ArcSight Foundation/Network Monitoring/Outbound Traffic/
Traffic Statistics	This report displays the bytes in and out by hour, and bytes in and out by device. A table shows the hour, firewall zone and address, the transport protocol and the bytes in and out.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/
Outbound Traffic by Protocol - Weekly Summary	This report shows an operational summary of the outbound traffic usage for the last week. You can specify the application protocol on which you want to focus.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Summaries/
Daily Traffic Summary	This report shows a daily traffic summary.	Report	ArcSight Foundation/Network Monitoring/Executive Summaries/
Inbound Traffic - Top Protocols	This report shows an operational summary of the inbound traffic usage by protocol.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/
Quarterly Traffic Summary	This report shows an executive summary of the traffic for the last quarter, grouped by week.	Report	ArcSight Foundation/Network Monitoring/Executive Summaries/
Weekly Traffic Summary	This report shows an executive summary of the traffic for the last week, grouped by day.	Report	ArcSight Foundation/Network Monitoring/Executive Summaries/
Outbound Traffic - Weekly Summary	This report shows an operational summary of the outbound traffic usage for the last week.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Summaries/

Resource	Description	Type	URI
Outbound Traffic - Daily Summary	This report shows an operational summary of the outbound traffic usage for the last day.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Summaries/
Inbound Traffic - Daily Summary	This report shows an operational summary of the inbound traffic usage for the last day.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Summaries/
Traffic Snapshot	This report shows the top ten protocols, top ten attackers, and top ten targets.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/
Inbound Traffic - Weekly Summary	This report shows an operational summary of the inbound traffic usage for the last week.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Summaries/
Inbound Traffic - Top Source Hosts	This report shows an operational summary of the inbound traffic usage by source hosts.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/
Outbound Traffic - Top Source Hosts	This report shows an operational summary of the outbound traffic usage by source hosts.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/
Outbound Traffic - Top Protocols	This report shows an operational summary of the outbound traffic usage by protocol.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/
Inbound Traffic by Protocol - Weekly Summary	This report shows an operational summary of the inbound traffic usage for the last week. You can specify the application protocol on which you want to focus.	Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Summaries/
Monthly Traffic Summary	This report shows an executive summary of the traffic for the last month.	Report	ArcSight Foundation/Network Monitoring/Executive Summaries/
Library - Correlation Resources			
TCP Traffic Spike	This rule monitors the moving average of inbound TCP events (external network to internal network). The rule triggers when the number of TCP packets per minute increases 50% or more.	Rule	ArcSight Foundation/Network Monitoring/

Resource	Description	Type	URI
High Number of Denied Connections for A Source Host	This rule detects firewall deny events. The rule triggers when ten events originating from the same source host occur within two minutes.	Rule	ArcSight Foundation/Network Monitoring/
ICMP Traffic Spike	This rule monitors the moving average of inbound ICMP events (external network to internal network). The rule triggers when the number of ICMP packets per minute increases 50% or more.	Rule	ArcSight Foundation/Network Monitoring/
High Number of Connections	This rule detects firewall accept events for MSSQL, Terminal Services, and TFTP connections (destination ports by default: MSSQL=1433, Terminal Services=2289, TFTP=69). The rule triggers when ten events from the same device occur within two minutes.	Rule	ArcSight Foundation/Network Monitoring/
High Number of Denied Inbound Connections	This rule detects inbound firewall deny events. The rule triggers when 20 events from the same device occur within two minutes.	Rule	ArcSight Foundation/Network Monitoring/
SYN Traffic Spike	This rule monitors the moving average of inbound SYN events (external network to internal network). The rule triggers when the number of SYN packets per minute increases 50% or more.	Rule	ArcSight Foundation/Network Monitoring/
UDP Traffic Spike	This rule monitors the moving average of inbound UDP events (external network to internal network). The rule triggers when the number of UDP packets per minute increases 50% or more.	Rule	ArcSight Foundation/Network Monitoring/
Library Resources			
Event-based Rule Exclusions	This active list stores event information that is used to exclude specific events from specific systems to other specific systems that have been determined to be not relevant to the rules that would otherwise fire on these events.	Active List	ArcSight System/Tuning
Protected	This is a site asset category.	Asset Category	Site Asset Categories/Address Spaces

Resource	Description	Type	URI
Outbound Traffic Moving Average (Response)	This data monitor shows a moving average of the outbound traffic (internal network to external network). This data monitor focuses on the bytes contained in the responses the internal hosts get from the external hosts. This data monitor shows the average amount of bytes/sec for the last hour using 12 five-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/Outbound Traffic/Outbound Traffic Moving Average/
Top Outbound Traffic by Application Protocol (Request)	This data monitor shows the ten application protocols with the highest amount of outbound traffic (internal network to external network). This data monitor focuses on the total number of bytes by application protocol contained in the requests the internal hosts are sending to the external hosts.	Data Monitor	ArcSight Foundation/Network Monitoring/Outbound Traffic/Top Outbound Traffic by Application Protocol/
Top Inbound Traffic by Host (Request)	This data monitor shows the ten source hosts with the highest amount of inbound traffic (external network to internal network). This data monitor focuses on the total number of bytes contained in the requests the host is sending to the internal network.	Data Monitor	ArcSight Foundation/Network Monitoring/Inbound Traffic/Top Inbound Traffic by Host/
Top Outbound Traffic by Application Protocol (Response)	This data monitor shows the ten application protocols with the highest amount of outbound traffic (internal network to external network). This data monitor focuses on the total number of bytes by application protocol contained in the responses the internal hosts get from the external hosts.	Data Monitor	ArcSight Foundation/Network Monitoring/Outbound Traffic/Top Outbound Traffic by Application Protocol/
Top Outbound Traffic by Host (Request)	This data monitor shows the ten source hosts with the highest amount of outbound traffic (internal network to external network). This data monitor focuses on the total number of bytes contained in the requests the internal host is sending to the external network.	Data Monitor	ArcSight Foundation/Network Monitoring/Outbound Traffic/Top Outbound Traffic by Host/

Resource	Description	Type	URI
Top Inbound Traffic by Application Protocol (Request)	This data monitor shows the ten application protocols with the highest amount of inbound traffic (external network to internal network). This data monitor focuses on the total number of bytes by application protocol contained in the requests the external hosts are sending to the internal hosts.	Data Monitor	ArcSight Foundation/Network Monitoring/Inbound Traffic/Top Inbound Traffic by Application Protocol/
Top Inbound Traffic by Host (Response)	This data monitor shows the ten source hosts with the highest amount of inbound traffic (external network to internal network). This data monitor focuses on the total number of bytes contained in the responses the host gets from the external network.	Data Monitor	ArcSight Foundation/Network Monitoring/Inbound Traffic/Top Inbound Traffic by Host/
Top Inbound Traffic by Application Protocol (Response)	This data monitor shows the ten application protocols with the highest amount of inbound traffic (external network to internal network). This data monitor focuses on the total number of bytes by application protocol contained in the responses the external hosts get from the internal hosts.	Data Monitor	ArcSight Foundation/Network Monitoring/Inbound Traffic/Top Inbound Traffic by Application Protocol/
Inbound Traffic Moving Average (Response)	This data monitor shows a moving average of the inbound traffic (external network to internal network). This data monitor focuses on the bytes contained in the responses the external hosts get from the internal hosts. This data monitor shows the average amount of bytes/sec for the last hour using 12 five-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/Inbound Traffic/Inbound Traffic Moving Average/
Top Outbound Traffic by Host (Response)	This data monitor shows the ten source hosts with the highest amount of outbound traffic (internal network to external network). This data monitor focuses on the total number of bytes contained in the responses the internal host gets from the external network.	Data Monitor	ArcSight Foundation/Network Monitoring/Outbound Traffic/Top Outbound Traffic by Host/

Resource	Description	Type	URI
Inbound Traffic Moving Average (Request)	This data monitor shows a moving average of the inbound traffic (external network to internal network). This data monitor focuses on the bytes contained in the requests the external hosts are sending to the internal hosts. This data monitor shows the average amount of bytes/sec for the last hour using 12 five-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/Inbound Traffic/Inbound Traffic Moving Average/
Outbound Traffic Moving Average (Request)	This data monitor shows a moving average of the outbound traffic (internal network to external network). This data monitor focuses on the bytes contained in the requests the internal hosts are sending to the external hosts. This data monitor shows the average amount of bytes/sec for the last hour using 12 five-minutes buckets.	Data Monitor	ArcSight Foundation/Network Monitoring/Outbound Traffic/Outbound Traffic Moving Average/
Target Port is NULL	This filter identifies events in which the target port field is NULL.	Filter	ArcSight Foundation/Common/Conditional Variable Filters/Host/
Application Protocol is NULL	This filter identifies if the event target has an application protocol associated with it.	Filter	ArcSight Foundation/Common/Conditional Variable Filters/Protocol/
External Source	This filter identifies events originating from outside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Qosient Argus	This filter identifies events originating from Argus connectors.	Filter	ArcSight Foundation/Network Monitoring/Connector Filters/
Outbound Traffic	This filter detects Argus events originating inside the company network and targeting the outside network.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
External Target	This filter identifies events targeting the outside network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Outbound Events	This filter identifies events originating from inside the company network, targeting the outside network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/
Inbound Events	This filter identifies events coming from the outside network targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Location Filters/

Resource	Description	Type	URI
Internal Source	This filter identifies events coming from inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Internal Target	This filter identifies events targeting inside the company network.	Filter	ArcSight Foundation/Common/Network Filters/Boundary Filters/
Inbound Traffic	This filter identifies Argus events originating from the outside network, targeting inside the company network.	Filter	ArcSight Foundation/Network Monitoring/Network Traffic Filters/
Network Traffic Reporting Devices	This filter identifies your network traffic reporting devices. The default network traffic reporting device is QoSient Argus.	Filter	ArcSight Foundation/Network Monitoring/Connector Filters/
Inbound http Traffic - Weekly Summary	This report shows an operational summary of the inbound http traffic usage for the last week. This is a focused report that depends on the Inbound Traffic by Protocol - Weekly Summary report.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Summaries/Focused Reports/
Outbound http Traffic - Weekly Summary	This report shows an operational summary of the outbound http traffic usage for the last week. This is a focused report that depends on the Outbound Traffic by Protocol - Weekly Summary report.	Focused Report	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Summaries/Focused Reports/
Top Protocols	This query retrieves the protocol with the highest number of total bytes (Bytes In + Bytes Out) within the last hour.	Query	ArcSight Foundation/Network Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Protocol Distribution Report/
Outbound Traffic by Source Host	This query retrieves outbound events (internal network to external network) and groups them by attacker address and attacker zone. The query returns the attacker address, the attacker zone name, and the corresponding sums of Bytes In and Bytes Out.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/
Outbound Traffic by Transport Protocol	This query retrieves outbound events (internal network to external network) and groups them by transport protocol. The query returns the transport protocol and the corresponding sums of Bytes In and Bytes Out.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/

Resource	Description	Type	URI
Inbound Traffic - Hourly	This query retrieves the information stored in the Inbound Traffic by Application Protocol trend table. The query returns the sums of Bytes In and Bytes Out and groups them by hour.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Trend Queries/
Outbound Traffic by Application Protocol - Daily	This query retrieves the information stored in the Outbound Traffic by Application Protocol trend table. The query returns the sums of Bytes In and Bytes Out and groups them by day. You can choose a specific application protocol to create a focused report, such as the Outbound http Traffic - Weekly Summary report.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Trend Queries/
Inbound Traffic by Transport Protocol	This query retrieves inbound events (external network to internal network) and groups them by transport protocol. The query returns the transport protocol and the corresponding sums of Bytes In and Bytes Out.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/
Inbound Traffic by Application Protocol	This query retrieves inbound events (external network to internal network) and groups them by application protocol. The query returns the application protocol and the corresponding sums of Bytes In and Bytes Out.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/
Outbound Traffic - Daily	This query retrieves the information stored in the Outbound Traffic by Application Protocol trend table. The query returns the sums of Bytes In and Bytes Out grouped by day.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Trend Queries/
Inbound Traffic by Application Protocol - Daily	This query retrieves the information stored in the Inbound Traffic by Application Protocol Trend Table. The query returns the sums of Bytes In and Bytes Out and groups them by day. You can choose a specific application protocol to create a focused report, such as the Inbound http Traffic - Weekly Summary report.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Trend Queries/
Overall Traffic - By Day	This query retrieves the number of incoming bytes, outgoing bytes, and total bytes (Incoming Bytes + Outgoing Bytes) in the Overall Traffic trend table and groups the values by day.	Query	ArcSight Foundation/Network Monitoring/Executive Summaries/Trend Queries/

Resource	Description	Type	URI
Top Attackers	This query retrieves the attacker or zone with the highest number of total bytes (Bytes In + Bytes Out) within the last hour.	Query	ArcSight Foundation/Network Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Top 10 Talkers/
Outbound Traffic	This query retrieves outbound events (internal network to external network) and returns the sums of Bytes In and Bytes Out grouped by target port, application protocol, and hour. This query is used by the Outbound Traffic by Application Protocol trend.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Event Queries/
Top Targets	This query retrieves the target ports with the highest number of total bytes (Bytes In + Bytes Out) within the last hour.	Query	ArcSight Foundation/Network Monitoring/SANS Top 5 Reports/5 - Suspicious or Unauthorized Network Traffic Patterns/Top Target IPs/
Inbound Traffic	This query retrieves inbound events (external network to internal network) and returns the sums of Bytes In and Bytes Out grouped by target port, application protocol, and hour. This query is used by the Inbound Traffic by Application Protocol Trend.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Event Queries/
Overall Traffic - By Month	This query retrieves the number of incoming bytes, outgoing bytes, and total bytes (Incoming Bytes + Outgoing Bytes) in the Overall Traffic trend table and groups the values by month.	Query	ArcSight Foundation/Network Monitoring/Executive Summaries/Trend Queries/
Inbound Traffic - Daily	This query retrieves the information stored in the Inbound Traffic by Application Protocol trend table. The query returns the sums of Bytes In and Bytes Out and groups them by day.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/Trend Queries/
Inbound Traffic by Source Host	This query retrieves inbound events (external network to internal network) and groups them by attacker address and attacker zone. The query returns the attacker address, the attacker zone, and the corresponding sums of Bytes In and Bytes Out.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Inbound Traffic/

Resource	Description	Type	URI
Firewall Bandwidth Usage by Hour	This query retrieves firewall events.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Traffic Statistics/
Bandwidth Usage by Firewall Address	This query returns firewall events.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Traffic Statistics/
Firewall Bandwidth Usage per Hour	This query returns firewall events.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Traffic Statistics/
Overall Traffic	This query identifies the overall number of incoming bytes and outgoing bytes. The incoming bytes are the sum of the number of bytes in requests in the inbound events (external network to internal network) and the number of bytes in responses in the outbound events (internal network to external network). The outgoing bytes are the sum of the number of bytes in requests in the outbound events (internal network to external network) and the number of bytes in responses in the inbound events (external network to internal network). This query is used by the Overall Traffic trend.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Bandwidth Utilization/Event Queries/
Outbound Traffic - Hourly	This query retrieves the information stored in the Outbound Traffic by Application Protocol trend table and returns the sums of Bytes In and Bytes Out and groups them by hour.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/Trend Queries/
Overall Traffic - By Hour	This query returns the number of incoming bytes, outgoing bytes, and total bytes (Incoming Bytes + Outgoing Bytes) in the Overall Traffic trend table and groups the values by hour.	Query	ArcSight Foundation/Network Monitoring/Executive Summaries/Trend Queries/
Outbound Traffic by Application Protocol	This query retrieves outbound events (internal network to external network) and groups them by application protocol. The query returns the application protocol and the corresponding sums of Bytes In and Bytes Out.	Query	ArcSight Foundation/Network Monitoring/Operational Summaries/Outbound Traffic/

Resource	Description	Type	URI
Outbound Traffic by Application Protocol	This trend runs every hour using the Outbound Traffic query. The trend table stores the total number of bytes contained in the requests and responses and group them by application protocol, target port, and hour.	Trend	ArcSight Foundation/Network Monitoring/
Inbound Traffic by Application Protocol	This trend runs every hour using the Inbound Traffic query. The trend table stores the total number of bytes contained in the requests and responses and group them by application protocol, target port, and hour.	Trend	ArcSight Foundation/Network Monitoring/
Overall Traffic	This trend stores the total number of incoming bytes and outgoing bytes per hour. The trend runs every day using the Overall Traffic query.	Trend	ArcSight Foundation/Network Monitoring/

Appendix A

Upgrading Standard Content

This appendix discusses the following topics.

[“Preparing Existing Content for Upgrade” on page 59](#)

[“Performing the Upgrade” on page 60](#)

[“Checking and Restoring Content After Upgrade” on page 60](#)

Preparing Existing Content for Upgrade

The majority of standard content does not need configuration and does not require special preparation for upgrade. Upgrade preparation is recommended only for content that has been configured and for which configuration is not preserved after the upgrade.

Configurations Preserved During Upgrade

The following resource configurations are preserved during the upgrade process. No restoration is required for these resources after the upgrade.

- Asset modeling for network assets, including:
 - ◆ Assets, and asset groups and their settings
 - ◆ Asset categories applied to assets and asset groups
 - ◆ Vulnerabilities applied to assets
 - ◆ Custom zones
- SmartConnectors
- Users and user groups
- Report schedules
- Notification destinations and priority settings
- Cases

Configurations that Require Restoration After Upgrade

The following resource configurations require restoration after upgrade.

- Any standard content resource that you have modified, including active lists
- Any custom content or special modifications not already described in this document (including customizations performed by ArcSight Professional Services)

Backing Up Existing Resources Before Upgrade



Before you back up existing resources, run the resource validator (`resvalidate.bat`) located on the ESM Manager in `<ARCSIGHT_HOME>\bin\scripts` to check that the resources are working correctly before the upgrade. This prevents you from attributing broken resources with the upgrade.

During the upgrade process, the content is run through a resource validator automatically (see ["Fixing Invalid Resources" on page 61](#)).

To help the process of reconfiguring resources that require restoration after upgrade, back up the resources you identify in ["Configurations that Require Restoration After Upgrade" on page 59](#) and export them in a package. After upgrade, you can re-import the package and use the existing resources as a reference for restoring the configurations to the upgraded environment.

To create a backup of the resources that require restoration after upgrade:

- 1 For each resource type (filter, rule, active list), create a new group under your personal group. Provide a name that identifies the contents.
 - ◆ Right-click your group name and select **New Group**.
- 2 Copy the resources into the new group. Repeat this process for every resource type you want to back up.
 - ◆ Select the resources you want to back up and drag them into the backup folder you created in [Step 1](#). In the *Drag & Drop Options* dialog box, select **Copy**.
- 3 Export the backup groups in a package.
 - ◆ In the Navigator panel Packages tab, right-click your group name and select **New Package**. In the Packages editor in the Inspect/Edit panel, name the package to identify the contents.



Copy and paste configurations from the old resources to the new

Instead of overwriting the new resources with backup copies of the old ones, copy and paste configurations from the old resources one by one into the new ones. This procedure ensures that you preserve your configurations without overwriting any improvements provided in the upgrade.

Performing the Upgrade

After exporting a copy of the configured resources in a backup package, you are ready to perform the upgrade the process. Refer to the ESM upgrade documentation for upgrade procedures.

Checking and Restoring Content After Upgrade

After the upgrade is complete, perform the following checks to verify that all your content has been transferred to the new environment successfully.

Verifying and Reapplying Configurations

Verify and restore standard content after upgrade.

- 1 Verify that your configured resources listed in the section [“Configurations Preserved During Upgrade” on page 59](#) retained their configurations as expected.
- 2 Reconfigure the resources that require restoration.
 - a Re-import the package you created in [“Backing Up Existing Resources Before Upgrade” on page 60](#).
 - b One resource at a time, copy and paste the configurations preserved in the package of copied resources into the new resources installed with the upgrade. Copying your configurations one resource at a time instead of overwriting the new resources with the old ensures that you retain your configurations without overwriting any improvements provided with the upgraded content.

Verifying Customized Content

It is possible during upgrade that updates to the standard content cause resources you created to work in a way that is not intended. For example, a rule might trigger too often or not at all if it uses a filter in which conditions have been changed.

To verify that the resources you rely upon work as expected, check the following:

- **Trigger events.** Send events that you know trigger the content through the system using the Replay with Rules feature. For more about this feature, refer to the *ArcSight Console User's Guide* or the ESM online Help.
- **Check Live Events.** Check the Live or All Events active channel to verify if the correlation event is triggered. Check that the data monitors you created are returning the expected output based on the test events you send through.
- **Verify notification destinations.** Verify that notifications are sent to the recipients in your notification destinations as expected.
- **Verify active lists.** Check that any active lists you have created to support your content are gathering the replay with rules data as expected.
- **Repair any invalid resources.** During the upgrade process, the resource validator identifies any resources that are rendered invalid (conditions that no longer work) during the upgrade. Find invalid resources and fix their conditions as appropriate. For more about invalid resources, see [Fixing Invalid Resources](#), below.

Fixing Invalid Resources



During the upgrade process, the content is run through a resource validator, which verifies that the values expressed in the resource condition statement still apply to the resource in its new format, and that any resources upon which it depends are still present and also valid. The resource validator runs on any resource that contains a condition statement or populates the asset model, such as:

- Active channels
- Filters
- Data Monitors
- Rules
- Report queries and schedules
- Assets and Asset ranges

■ Zones

It is possible that during upgrade, the condition statement for a resource you created or modified becomes invalid. For example, if the schema of an ArcSight-supplied active list changes from one release to another and a resource you created reads entries from this list, the condition statement in the created resource no longer matches the schema of the active list, and the logic is invalid.

When the installer performs the resource validation check and finds an invalid resource, it identifies why the resource is invalid in the report it generates at the end of the upgrade. The upgrade installer also lets you choose to save the reason the resource is invalid in the database (**Persist conflicts to the database=TRUE**). If you choose this option, the upgrade installer:

- Saves the reason the resource is found to be invalid in the database so you can generate a list of invalid resources that you can use later to repair the problems manually.
- Disables the resource so it does not try to evaluate live events in its invalid state.

If you choose not to save the reasons the resource is invalid in the database (**Persist conflicts to the database=FALSE**), the resources remain enabled, which means they try to evaluate the event stream in their invalid state.



If you choose not to persist conflicts to the database and disable invalid resources, the Manager might throw exceptions when the invalid resources try to evaluate live events.

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