

## FortiAnalyzer

**Datasets** 

RELEASE 5.0.8

Reference Manual

**Datasets** 

v5.0.8

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# Introduction

This document provides information about the various types of FortiAnalyzer datasets which are created based on the FortiGate log SQL tables and messages. These datasets are used to create charts and reports.

It describes the procedure for creating custom datasets, and also lists the types of log tables used to assist in writing SQL queries to create the datasets.

# Overview

FortiAnalyzer uses the PostgreSQL and remote MySQL databases to store the log data generated by the FortiGate. To create a chart based on the FortiGate logs in a local or remote database, you can use either the predefined datasets, or create your own custom datasets by querying the logs in the SQL database in FortiAnalyzer.

This chapter includes the following topics:

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## **Understanding Datasets and Macros**

FortiAnalyzer datasets are collections of log messages from monitored devices.

If the FortiAnalyzer unit is not receiving data from a device, or logging is not enabled under *System > Config > SQL Database*, it does not create log tables for that device.

Charts in FortiAnalyzer are generated based on the datasets. To create a chart, you can use either the predefined datasets, or create your own custom datasets by querying the log messages in the SQL database on the FortiAnalyzer unit. Both predefined and custom datasets can be cloned, but only custom datasets can be deleted. You can also view the SQL query for a dataset, and test the query against specific devices or log arrays.

You can create custom reports that contain macros created based on predefined and custom datasets. Macros are used to dynamically display the device log data as text in a report. They can be embedded within a text field of a paragraph in a report layout in XML format. Macros display a single value, such as a user name, highest session count, or highest bandwidth etc.

To view and configure datasets, go to **Reports > Advanced > Dataset** in the left navigation pane of the web-based manager. For more information, refer to the **Dataset** section in the **FortiAnalyzer Administration Guide**.

To view and configure macros, go to **Reports> Macro Library** in the left navigation pane of the web-based manager. For more information, refer to the *Macro Library* section in the *FortiAnalyzer Administration Guide*.

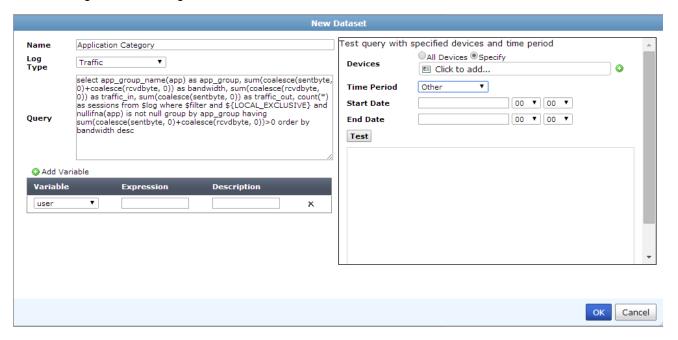
Note: FortiAnalyzer v5.0 Patch Release 5 introduced new datasets for SIP and SCCP. FortiAnalyzer v5.0 Patch Release 6 introduces new datasets for Botnet (Botnet-Activity-By-Sources, Botnet-Infected-Hosts, Botnet-Sources, Botnet-Timeline, and Detected-Botnet).

## **Creating Custom Datasets**

This section describes the procedure to create datasets in the FortiAnalyzer web-based manager. You can also use the CLI command config sql-report dataset to create datasets.

### To create a custom dataset in the web-based manager

- 1. Go to Reports> Advanced > Dataset.
- 2. Click Create New.
- 3. Configure the following, then click **OK**.



The following table describes the GUI fields of the New Dataset dialog box.

Field	Description
Name	Name of the data set.
Log Type	Log Type to be used for the data set. \$log is used in the SQL query to represent the log type you select, and it is run against all tables of this type.
Devices	Select <b>All Devices</b> to create datasets on all of FortiAnalyzer managed devices. or select <b>Specify</b> to choose a device on which you want to create the dataset.
Query	Enter the SQL query syntax to retrieve the log data you want from the SQL database.
Time Period	Select to use logs from a time frame. Select <b>Other</b> to define a custom time frame by selecting the <b>Start Time</b> and <b>End Time</b> . \$filter is used in the SQL query "where" clause to limit the results to the period you select.
Test	Click to test whether or not the SQL query is successful.

## Testing SQL Query

You can verify the SQL query that you used to create the custom dataset before saving the dataset configuration by testing and viewing the query results.

To test a SQL query:

Click Test after entering the SQL query in the New Dataset dialog box.

The guery results are displayed. If the guery is not successful, an error message appears in the results pane.

### **Examples of SQL Query Errors**

Here are some example error messages and possible causes:

### Syntax Errors

```
You have an error in your SQL syntax (remote/MySQL) or ERROR: syntax error at or near... (local/PostgreSQL)
```

- Check that SQL keywords are spelled correctly, and that the query is well-formed.
- Table and column names are demarked by grave accent (`) characters. Single (') and double (") quotation marks will cause an error.

```
No data is covered.
```

• The query is correctly formed, but no data has been logged for the log type. Check that you have configured the FortiAnalyzer unit to save that log type. Under **System > Config > SQL Database**, ensure that the log type is checked.

#### **Connection Errors**

If well formed queries do not produce results, and logging is turned on for the log type, there may be a database configuration problem with the remote database.

#### Ensure that:

- MySQL is running and using the default port 3306.
- You have created an empty database and a user with create permissions for the database.

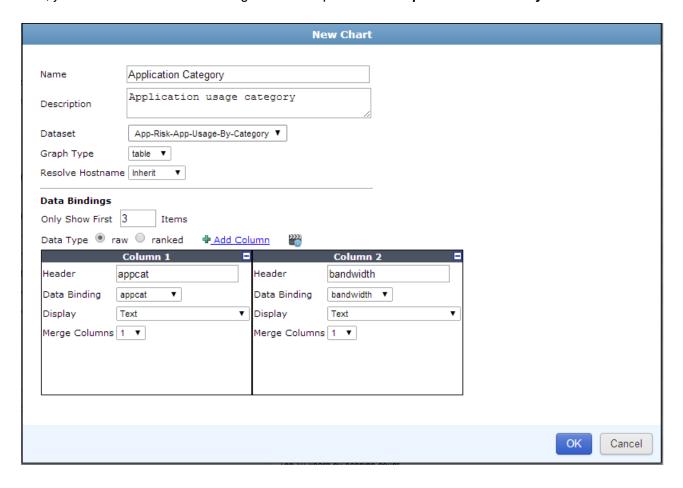
Here is an example of creating a new MySQL database named fazlogs, and adding a user for the database:

```
#Mysql -u root -p
mysql> Create database fazlogs;
mysql> Grant all privileges on fazlogs.* to 'fazlogger'@'*'
identified by 'fazpassword';
mysql> Grant all privileges on fazlogs.* to
'fazlogger'@'localhost' identified by 'fazpassword';
```

For more information about using SQL queries for creating datasets, refer to the FortiAnalyzer™ and FortiGate™ Version 4.0 MR2 SQL Log Database Query Technical Note on the Fortinet Documentation Library at docs.fortinet.com.

## **Examples of Custom Datasets**

The following examples illustrate how to create custom datasets using the web-based manager GUI and CLI. Once created, you can use the datasets to configure chart templates under *Reports > Chart Library*.



### Example 1: Distribution of applications by type in the last 24 hours

#### **GUI Procedure**

- 1. Go to Reports> Advanced > Dataset.
- 2. Click Create New.
- 3. Select Application Control under Log Type.
- 4. Enter a name, such as "apps\_type\_24hrs".
- 5. Select Last N Hours under Time Period.
- 6. Enter the query:

```
SELECT app_type, COUNT( * ) AS totalnum
FROM $log
WHERE $filter
```

```
AND app_type IS NOT NULL GROUP BY app_type

ORDER BY totalnum DESC
```

#### **CLI Procedure**

To perform the same task using the CLI, use these commands:

```
config sql-report dataset
  edit apps_type_24hrs
    set log-type app-ctrl
    set time-period last-n-hours
    set period-last-n 24
    set query "SELECT app_type, COUNT( * ) AS totalnum
    FROM $log
    WHERE $filter AND app_type IS NOT NULL
    GROUP BY app_type
    ORDER BY totalnum DESC"
```

end

#### Notes:

- \$filter restricts the guery result to the time period specified; in this case, it's the past 24 hours.
- \$log queries all application control logs
- The application control module classifies each firewall session in app\_type. One firewall session may be
  classified to multiple app\_types. For example, an HTTPsession can be classified to: HTTP, Facebook, etc.
- Some app/app\_types may not be able to detected, then the 'app\_type' field may be null or 'N/A'. These will be ignored by this query.
- The result is ordered by the total session number of the same app\_type. The most frequent app\_types will
  appear first.

### Example 2: Top 100 applications by bandwidth in the last 24 hours

#### **GUI Procedure**

- 1. Go to Reports > Advanced > Dataset.
- 2. Click Create New.
- 3. Select Application Control under Log Type.
- 4. Enter a name, such as "top\_100\_aps\_24hrs".
- 5. Select Last N Hours under Time Period.
- 6. Enter the query:

```
SELECT (
TIMESTAMP - TIMESTAMP %3600
```

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```
) AS hourstamp, app, service, SUM( sent + rcvd ) AS volume FROM $log
WHERE $filter and app IS NOT NULL
GROUP BY app
ORDER BY volume DESC
LIMIT 100
```

#### **CLI Procedure**

To perform the same task using the CLI, use these commands:

```
config sql-report dataset
edit top_100_apps_24hrs

set log-type traffic

set time-period last-n-hours

set period-last-n 24

set query "SELECT ( TIMESTAMP - TIMESTAMP %3600 ) AS

hourstamp, app, service, SUM( sent + rcvd ) AS volume

FROM $log
WHERE $filter and app IS NOT NULL
GROUP BY app

ORDER BY volume DESC LIMIT 100"
```

### Notes:

end

- (timestamp-timestamp%3600) as hourstamp this calculates an "hourstamp" to indicate bandwidth per hour.
- SUM ( sent + rcvd ) AS volume this calculates the total sent and received bytes.
- ORDER BY volume DESC this orders the results by descending volume (largest volume first).
- LIMIT 100 this lists only the top 100 applications.

## Log Database Tables

The FortiAnalyzer and FortiGate units create a database table for each managed device and each log type to record log data.

SQL tables follow the naming convention of [Device Name]-[SQL table type]-[timestamp], where the SQL table type is one of the types listed in the table below.

Log Type	SQL Table Type	Description		
Traffic	tlog	The traffic log records all traffic to and through the FortiGate interface.		
Event	elog	The event log records management and activity events. For example, when an administrator logs in or logs out of the web-based manager.		
Antivirus	vlog	The antivirus log records virus incidents in Web, FTP, and email traffic.		
Webfilter	wlog	The web filter log records HTTP FortiGate log rating errors including web content blocking actions that the FortiGate unit performs.		
Attack	attack_log	The attack log records attacks that are detected and prevented by the FortiGate unit.		
Data Leak Prevention	dlog	The Data Leak Prevention log records log data that is considered sensitive and that should not be made public. This log also records data that a company does not want entering their network.		
Application Control	app_con- trol_log	The application control log records data detected by the FortiGate unit and the action taken against the network traffic depending on the application that is generating the traffic, for example, instant messaging software, such as MSN Messenger.		
Spamfilter	spamfilter_ log	The spam filter log records blocking of email address patterns and content in SMTP, IMAP, and POP3 traffic.		

To view all the tables created in a database, use the following commands:

- local (PostgreSQL) database: SELECT \* FROM pg\_tables
- remote (MySQL): SHOW TABLES

FortiAnalyzer and FortiGate logs also include log sub-types, which are types of log messages that are within the main log type. For example, in the event log type there are the subtype admin log messages.

For more information on FortiGate Log Types and Messages, refer to the FortiOS/FortiGate *Log Message Reference Guide* on the Fortinet Documentation Library at: docs.fortinet.com.

Log Type	Sub Type
traffic (Traffic Log)	allowed - Policy allowed traffic violation - Policy violation traffic Other
, ,	For FortiGate devices: • system - System activity event • ipsec - IPSec negotiation event • dhcp - DHCP service event • ppp - L2TP/PPTP/PPPoE service event • admin - admin event • ha - HA activity event • auth - Firewall authentication event • pattern - Pattern update event • alertemail - Alert email notifications • chassis - FortiGate-4000 and FortiGate-5000 series chassis event • sslvpn-user - SSL VPN user event • sslvpn-admin - SSL VPN administration event • sslvpn-session - SSL VPN session even • his-performance - performance statistics • vipssl - VIP SSL events • Idb-monitor - LDB monitor events

Log Type	Sub Type
dlp (Data Leak Pre- vention)	• dlp - Data Leak Prevention
app-crtl (Application Control Log)	app-crtl-all - All application control
virus (Antivirus Log)	• infected - Virus infected • filename - Filename blocked • oversize - File oversized
webfilter (Web Filter Log)	• content - content block • urlfilter - URL filter • FortiGuard block • FortiGuard allowed • FortiGuard error • ActiveX script filter • Cookie script filter • Applet script filter
ips (Attack Log)	• signature - Attack signature • anomaly - Attack anomaly
emailfilter (Spam Filter Log)	• SMTP • POP3 • IMAP

# **Dataset Reference List**

The following table lists the available predefined datasets applicable to a FortiGate device reported by FortiAnalyzer.

For documentation and technical support reference purposes, this table contains the dataset names, SQL query syntax for each dataset, and the log category of the dataset.

Dataset Name	Description	Log Category	Query Syntax
App-Risk- App-Usage- By-Category	Application risk applic- ation usage by category	Traffic	SELECT appcat, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND nullifna(appcat) IS NOT NULL GROUP BY appcat ORDER BY bandwidth DESC SELECT app_group_name(app) AS app_group, appcat, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, count(*) AS num_session FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND nullifna(app) IS NOT NULL GROUP BY app_group, appcat ORDER BY bandwidth DESC
App-Risk- Application- Activity-APP	Application risk application activity	Traffic	SELECT app_group_name(app) AS app_group, appcat, sum(coalesce(sentbyte, 0)+COALESCE (rcvdbyte, 0)) AS bandwidth, count(*) AS num_session FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND nullifna(app) IS NOT NULL GROUP BY app_group, appcat ORDER BY bandwidth DESC
App-Risk- Applications- Running- Over-HTTP	Application risk applic- ations run- ning over HTTP	Traffic	SELECT app_group_name(app) AS app_group,     service,     count(*) AS sessions,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log

Dataset Name	Description	Log Category	Query Syntax
			WHERE \$filter  AND logid_to_int(logid) NOT IN (4,  7, 14)  AND nullifna(app) IS NOT NULL  AND service IN ('80/tcp', '443/tcp', 'HTTP', 'HTTPS', 'http', 'https')  GROUP BY app_group, service HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd-byte, 0))>0  ORDER BY bandwidth DESC
App-Risk- Breakdown- Of-Risk-Applic- ations	Application risk break- down of risk applications	Traffic	SELECT d_behavior, count(*) AS number FROM \$log t1 INNER JOIN app_mdata t2 ON t1.appid=t2.id WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND d_risk>0 GROUP BY d_behavior ORDER BY number DESC
App-Risk- DLP-UTM- Event	Application risk DLP UTM event	Traffic	SELECT utmsubtype, sum(number) AS number FROM (###  (SELECT utmsubtype, count(*) AS number FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent='dlp' AND utmsubtype IS NOT NULL GROUP BY utmsubtype ORDER BY number DESC)### UNION ALL ### (SELECT subtype AS utmsubtype, count(*) AS number FROM \$log-dlp WHERE \$filter AND subtype IS NOT NULL GROUP BY subtype ORDER BY number DESC)###) t GROUP BY utmsubtype ORDER BY number DESC)###) t GROUP BY utmsubtype ORDER BY number DESC
App-Risk- High-Risk- Application	Application risk high risk application	Traffic	SELECT d_risk,     d_behavior,     t2.id,     t2.name,     t2.app_cat,     t2.technology,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,

Dataset Name	Description	Log Category	Query Syntax
			count(*) AS sessions FROM \$log t1 INNER JOIN app_mdata t2 ON t1.appid=t2.id WHERE \$filter AND logid_to_int(logid) NOT IN (4,
App-Risk- Number-Of- Applications- By-Risk-Beha- vior	Application risk number of applic- ations by risk behavior	Traffic	SELECT d_risk,
App-Risk- Reputation- Top-Devices- By-Scores	Application risk repu- tation top devices by scores	Traffic	SELECT devtype, coalesce(nullifna(`srcname`),nullifna(`srcmac`), ipstr(`srcip`)) AS dev_src, sum(crscore%65536) AS scores FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND crscore IS NOT NULL GROUP BY devtype, dev_src HAVING sum(crscore%65536)>0 ORDER BY scores DESC
App-Risk- Reputation- Top-Users-By- Scores	Application risk repu- tation top users by scores	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     sum(crscore%65536) AS scores FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
App-Risk-Top- Critical- Threat-Vect- ors	Application risk top crit- ical threat vectors	attack	SELECT attack, severity, REF, count(*) AS totalnum FROM \$log WHERE \$filter AND severity='critical' AND nullifna(attack) IS NOT NULL GROUP BY attack, severity,

Dataset Name	Description	Log Category	Query Syntax
			REF ORDER BY totalnum DESC
App-Risk-Top- High-Threat- Vectors	Application risk top high threat vectors	attack	SELECT attack, severity, REF, count(*) AS totalnum FROM \$log WHERE \$filter AND severity='high' AND nullifna(attack) IS NOT NULL GROUP BY attack, severity, REF ORDER BY totalnum DESC
App-Risk-Top- Info-Threat- Vectors	Application risk top info threat vectors	attack	SELECT attack, severity, REF, count(*) AS totalnum FROM \$log WHERE \$filter AND severity='info' AND nullifna(attack) IS NOT NULL GROUP BY attack, severity, REF ORDER BY totalnum DESC
App-Risk-Top- Low-Threat- Vectors	Application risk top low threat vectors	attack	SELECT attack, severity, REF, count(*) AS totalnum FROM \$log WHERE \$filter AND severity='low' AND nullifna(attack) IS NOT NULL GROUP BY attack, severity, REF ORDER BY totalnum DESC
App-Risk-Top- Medium- Threat-Vect- ors	Application risk top medium threat vectors	attack	SELECT attack, severity, REF, count(*) AS totalnum FROM \$log WHERE \$filter AND severity='medium' AND nullifna(attack) IS NOT NULL GROUP BY attack, severity, REF ORDER BY totalnum DESC
App-Risk-Top- Threat-Vect- ors	Application risk top threat vectors	attack	SELECT severity, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY severity ORDER BY totalnum DESC

Dataset Name	Description	Log Category	Query Syntax
App-Risk-Top- User-Source- By-Sessions	Application risk top user source by session count	Traffic	SELECT srcip, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND srcip IS NOT NULL GROUP BY srcip, user_src ORDER BY sessions DESC
App-Risk- Virus-Dis- covered	Application risk virus discovered	Traffic	SELECT dom, sum(totalnum) AS totalnum  FROM (###  (SELECT \$DAY_OF_MONTH AS dom, count(*) AS totalnum  FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IS NOT NULL AND virus IS NOT NULL GROUP BY dom ORDER BY totalnum DESC)### UNION ALL ### (SELECT \$DAY_OF_MONTH AS dom, count(*) AS totalnum  FROM \$log-virus WHERE \$filter AND nullifna(virus) IS NOT NULL AND (eventtype IS NULL OR logver = 52) GROUP BY dom ORDER BY totalnum DESC)###) t GROUP BY dom ORDER BY totalnum DESC
App-Risk-Vul- nerability-Dis- covered	Application risk vul- nerability dis- covered	netscan	SELECT vuln, vulncat, severity, count(*) AS totalnum FROM \$log WHERE \$filter AND vuln IS NOT NULL GROUP BY vuln, vulncat, severity ORDER BY totalnum DESC
App-Risk- Web-Brows- ing-Activity- Hostname-Cat- egory	Application risk web browsing activity host- name cat- egory	Traffic	SELECT DOMAIN, catdesc, sum(visits) AS visits FROM (### (SELECT coalesce(nullifna(hostname), ipstr(`dstip`)) AS DOMAIN, catdesc, count(*) AS visits

Dataset Name	Description	Log Category	Query Syntax
			FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter',
App-Risk- Web-Brows- ing-Summary- Category	Application risk web browsing summary cat- egory	Traffic	SELECT catdesc, sum(num_sess) AS num_sess, sum(bandwidth) AS bandwidth FROM (###  (SELECT catdesc, count(*) AS num_sess, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND catdesc IS NOT NULL AND catdesc !='Unrated' GROUP BY catdesc ORDER BY num_sess DESC)### UNION ALL ### (SELECT catdesc, count(*) AS num_sess, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,

Dataset Name	Description	Log Category	Query Syntax
			0)) AS bandwidth FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND catdesc IS NOT NULL AND catdesc !='Unrated' GROUP BY catdesc ORDER BY num_sess DESC)###) t GROUP BY catdesc ORDER BY num_sess DESC
App-Ses- sions-By-Cat- egory	Application sessions by category	Traffic	SELECT appcat, count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND nullifna(appcat) IS NOT NULL GROUP BY appcat ORDER BY sessions DESC
app-Top- Allowed- Applications- by-Bandwidth	Top allowed applications by bandwidth usage	Traffic	SELECT FROM_itime(itime) AS TIMESTAMP,
app-Top- Blocked- Applications- by-Session	Top blocked applications by session	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     appcat,     app,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY user_src, appcat, app ORDER BY sessions DESC
app-Top-Cat- egory-and- Applications- by-Bandwidth	Top category and applic- ations by bandwidth usage	Traffic	SELECT appcat, app, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY appcat, app HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd-byte, 0))>0 ORDER BY bandwidth DESC
app-Top-Cat- egory-and- Applications- by-Session	Top category and applic- ations by ses- sion	Traffic	SELECT appcat, app, count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY appcat, app ORDER BY sessions DESC
appctrl-Top- Blocked- SCCP-Callers	Appctrl top blocked SCCP callers	app-ctrl	SELECT srcname AS caller, count(*) AS totalnum FROM \$log WHERE \$filter AND lower(appcat)='voip' AND app='sccp' AND action='block' AND srcname IS NOT NULL GROUP BY caller ORDER BY totalnum DESC
appctrl-Top- Blocked-SIP- Callers	Appctrl top blocked SIP callers	app-ctrl	SELECT srcname AS caller, count(*) AS totalnum FROM \$log WHERE \$filter AND srcname IS NOT NULL AND lower(appcat)='voip' AND app='sip' AND action='block' GROUP BY caller ORDER BY totalnum DESC
Application- Session-His- tory	Application session history	Traffic	SELECT \$flex_timescale AS hodex, count(*) AS counter FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY hodex ORDER BY hodex

Dataset Name	Description	Log Category	Query Syntax
bandwidth- app-Top-Dest- By-Band- width-Ses- sions	Bandwidth application top dest by bandwidth usage ses- sions	Traffic	SELECT coalesce(nullifna(root_domain(hostname)), ipstr ('dstip')) AS DOMAIN,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,     sum(coalesce(rcvdbyte, 0)) AS traffic_in,     sum(coalesce(sentbyte, 0)) AS traffic_out,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
bandwidth- app-Top- Users-By- Bandwidth	Bandwidth application top users by bandwidth usage	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,     sum(coalesce(rcvdbyte, 0)) AS traffic_in,     sum(coalesce(sentbyte, 0)) AS traffic_out,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
bandwidth- app-Traffic- By-Active- User-Number	Bandwidth application traffic by act- ive user num- ber	Traffic	SELECT hodex,
bandwidth- app-Traffic- Statistics	Bandwidth application traffic stat- istics	Traffic	DROP TABLE IF EXISTS stats_temp;  CREATE TEMPORARY TABLE stats_temp(total_sessions varchar(255), total_bandwidth varchar(255), ave_session varchar(255), ave_bandwidth varchar(255), active_date varchar(255), total_users varchar(255), total_app varchar(255), total_dest varchar(255));  INSERT INTO stats_temp (total_sessions, total_bandwidth, ave_session, ave_bandwidth)

Dataset Name	Description	Log Category	Query Syntax
			SELECT format_numeric_no_decimal(sum(sessions)) AS total_sessions, bandwidth_unit(sum(bandwidth)) AS total_bandwidth, format_numeric_no_decimal(cast(sum(sessions)/\$days_ num AS decimal(18, 0))) AS ave_session, bandwidth_unit(cast(sum(bandwidth)/\$days_num AS decimal(18, 0))) AS ave_bandwidth FROM ### (SELECT count(*) AS sessions, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND \${LOCAL_EXCLUSIVE})### t;
			UPDATE stats_temp SET active_date=t1.dom FROM (SELECT dom,
			UPDATE stats_temp SET total_users=t2.totalnum FROM (SELECT format_numeric_no_decimal(count(distinct(user_src))) AS totalnum FROM ### (SELECT distinct(coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`))) AS user_src FROM \$log WHERE \$filter AND \${LOCAL_EXCLUSIVE})### t) AS t2;
			UPDATE stats_temp SET total_app=t3.totalnum FROM (SELECT format_numeric_no_decimal(count(distinct(app_group_name(app)))) AS totalnum FROM ### (SELECT distinct(app_group_name(app)) AS app FROM \$log WHERE \$filter AND \${LOCAL_EXCLUSIVE})### t) AS t3;
			UPDATE stats_temp SET total_dest=t4.totalnum FROM (SELECT format_numeric_no_decimal(count(distinct(dstip))) AS totalnum

Dataset Name	Description	Log Category	Query Syntax
			FROM ### (SELECT distinct(dstip) AS dstip FROM \$log WHERE \$filter AND \${LOCAL_EXCLUSIVE})### t) AS t4;
			SELECT 'Total Sessions' AS summary, total_sessions AS stats FROM stats_temp UNION ALL SELECT 'Total Bytes Transferred' AS summary, total_bandwidth AS stats FROM stats_temp UNION ALL SELECT 'Most Active Date By Sessions' AS summary, active_date AS stats FROM stats_temp UNION ALL SELECT 'Total Users' AS summary, total_users AS stats FROM stats_temp UNION ALL SELECT 'Total Applications' AS summary, total_app AS stats FROM stats_temp UNION ALL SELECT 'Total Destinations' AS summary, total_dest AS stats FROM stats_temp UNION ALL SELECT 'Total Destinations' AS summary, total_dest AS stats FROM stats_temp UNION ALL SELECT 'Average Sessions Per Day' AS summary, ave_session AS stats FROM stats_temp UNION ALL SELECT 'Average Bytes Per Day' AS summary, ave_bandwidth AS stats FROM stats_temp
Botnet-Activ- ity-By-Sources	Botnet activ- ity by sources	Traffic	SELECT app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, count(*) AS events FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND appcat='Botnet' AND nullifna(app) IS NOT NULL GROUP BY app, user_src ORDER BY events DESC
Botnet-Infected-Hosts	Botnet infected hosts	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src, devtype, coalesce(srcname, srcmac) AS host_mac, count(*) AS events FROM \$log WHERE \$filter

Dataset Name	Description	Log Category	Query Syntax
			AND logid_to_int(logid) NOT IN (4, 7, 14) AND appcat='Botnet' GROUP BY user_src, devtype, host_mac ORDER BY events DESC
Botnet- Sources	Botnet sources	Traffic	SELECT dstip, root_domain(hostname) AS DOMAIN, count(*) AS events FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND appcat='Botnet' AND dstip IS NOT NULL GROUP BY dstip, DOMAIN ORDER BY events DESC
Botnet- Timeline	Botnet timeline	Traffic	SELECT \$flex_timescale AS hodex, count(*) AS events FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND appcat='Botnet' GROUP BY hodex ORDER BY hodex DESC
Botnet-Victims	Botnet victims	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     count(*) AS events FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
content- Count-Total- SCCP-Call- Registrations- by-Hour-of- Day	Content count total SCCP call registrations by hour of day	content	SELECT \$hour_of_day AS hourstamp, count(*) AS totalnum FROM \$log WHERE \$filter AND proto='sccp' AND kind='register' GROUP BY hourstamp ORDER BY hourstamp
content- Count-Total- SCCP-Calls- Duration-by- Hour-of-Day	Content count total SCCP calls duration by hour of day	content	SELECT \$hour_of_day AS hourstamp, sum(duration) AS sccp_usage FROM \$log WHERE \$filter AND proto='sccp'

Dataset Name	Description	Log Category	Query Syntax
			AND kind='call-info' AND status='end' GROUP BY hourstamp ORDER BY hourstamp
content- Count-Total- SCCP-Calls- per-Status	Content count total SCCP calls per status	content	SELECT status, count(*) AS totalnum FROM \$log WHERE \$filter AND proto='sccp' AND kind='call-info' GROUP BY status ORDER BY totalnum DESC
content- Count-Total- SIP-Call- Registrations- by-Hour-of- Day	Content count total SIP call regis- trations by hour of day	content	SELECT \$hour_of_day AS hourstamp, count(*) AS totalnum FROM \$log WHERE \$filter AND proto='sip' AND kind='register' GROUP BY hourstamp ORDER BY hourstamp
content- Count-Total- SIP-Calls-per- Status	Content count total SIP calls per status	content	SELECT status, count(*) AS totalnum FROM \$log WHERE \$filter AND proto='sip' AND kind='call' GROUP BY status ORDER BY totalnum DESC
content-Dist- Total-SIP- Calls-by-Dur- ation	Content dist total SIP calls by duration	content	SELECT (CASE  WHEN duration < 60 THEN 'LESS_ONE_MIN' WHEN duration < 3600 THEN 'LESS_TEN_MIN' WHEN duration >= 3600 THEN 'LESS_ONE_HOUR' WHEN duration >= 3600 THEN 'MORE_ONE_HOUR' ELSE 'unknown' END) AS f_duration, count(*) AS totalnum FROM \$log WHERE \$filter AND proto='sip' AND kind='call' AND status='end' GROUP BY f_duration ORDER BY totalnum DESC
default-AP- Detection- Summary-by- Status-OffWire	Default access point detection summary by status off- wire	event	SELECT (CASE apstatus WHEN 1 THEN 'rogue' WHEN 2 THEN 'accepted' WHEN 3 THEN 'suppressed' ELSE 'others' END) AS ap_full_status, count(*) AS totalnum FROM (SELECT apstatus, bssid, ssid FROM ### (SELECT apstatus,

Dataset Name	Description	Log Category	Query Syntax
			bssid, ssid, count(*) AS subtotal FROM \$log WHERE \$filter AND apstatus IS NOT NULL AND apstatus!=0 AND bssid IS NOT NULL AND onwire='no' AND logid_to_int(logid) IN (43527, 43521, 43525) GROUP BY apstatus, bssid, ssid ORDER BY subtotal DESC)### t GROUP BY apstatus, bssid, ssid) t GROUP BY ap_full_status ORDER BY totalnum DESC
default-AP- Detection- Summary-by- Status-OnWire	Default access point detection summary by status on- wire	event	SELECT (CASE apstatus WHEN 1 THEN 'rogue' WHEN 2 THEN 'accepted' WHEN 3 THEN 'suppressed' ELSE 'others' END) AS ap_full_status, count(*) AS totalnum FROM (SELECT apstatus, bssid, ssid FROM ### (SELECT apstatus, bssid, ssid, count(*) AS subtotal FROM \$log WHERE \$filter AND apstatus IS NOT NULL AND apstatus!=0 AND bssid IS NOT NULL AND onwire='yes' AND logid_to_int(logid) IN (43527, 43521, 43525) GROUP BY apstatus, bssid, ssid ORDER BY subtotal DESC)### t GROUP BY apstatus, bssid, ssid) t GROUP BY ap_full_status ORDER BY totalnum DESC
default-Email- Top-Receiv- ers-By-Band-	Default email top receivers by bandwidth	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS band-

Dataset Name	Description	Log Category	Query Syntax
width	usage		width FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
default-Email- Top-Receiv- ers-By-Count	Default email top receivers by count	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     count(*) AS requests FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
default-Email- Top-Senders- By-Bandwidth	Default email top senders by bandwidth usage	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter     AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			'465/tcp') GROUP BY user_src HAVING sum(coalesce(sentbyte, 0)+co-alesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC
default-Man- aged-AP-Sum- mary	Default managed access point summary	event	SELECT (CASE WHEN (action LIKE '%join%' AND logid_to_int(logid)=43522) THEN 'Authorized' ELSE 'Unauthorized' END) AS ap_status, count(*) AS totalnum FROM \$log WHERE \$filter AND logid_to_int(logid)=43522 GROUP BY ap_status ORDER BY totalnum DESC
default- SELECTed- AP-Details- OffWire	Default SELECTed access point details off- wire	event	SELECT (CASE apstatus WHEN 0 THEN 'unclassified' WHEN 1 THEN 'rogue' WHEN 2 THEN 'accepted' WHEN 3 THEN 'suppressed' ELSE 'others' END) AS ap_full_status, devid, vd, ssid, bssid, manuf, rssi, channel, radioband, FROM_dtime(min(dtime)) AS first_seen, FROM_dtime(max(dtime)) AS last_seen, detectionmethod, itime, onwire AS on_wire FROM \$log WHERE \$filter AND apstatus IS NOT NULL AND bssid IS NOT NULL AND logid_to_int(logid)=43521 GROUP BY ap_full_status, devid, vd, ssid, bssid, manuf, rssi, channel, radioband, detectionmethod, itime, onwire, apstatus
default- SELECTed- AP-Details- OnWire	Default SELECTed access point	event	SELECT (CASE apstatus WHEN 0 THEN 'unclassified' WHEN 1 THEN 'rogue' WHEN 2 THEN 'accepted'

Dataset Name	Description	Log Category	Query Syntax
	details on- wire		WHEN 3 THEN 'suppressed' ELSE 'others' END) AS ap_full_status, devid, vd, ssid, bssid, manuf, rssi, channel, radioband, FROM_dtime(min(dtime)) AS first_seen, FROM_dtime(max(dtime)) AS last_seen, detectionmethod, itime, onwire AS on_wire FROM \$log WHERE \$filter AND apstatus IS NOT NULL AND bssid IS NOT NULL AND onwire='yes' AND logid_to_int(logid)=43521 GROUP BY ap_full_status, devid, vd, ssid, bssid, manuf, rssi, channel, radioband, detectionmethod, itime, onwire, apstatus
default-Top- Dial-Up-User- Of-Vpn-Tun- nel-By-Band- width	Default top dial up user of VPN tun- nel by band- width usage	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter     AND logid_to_int(logid) NOT IN (4,
default-Top- Email- Senders-By- Count	Default top email senders by count	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     count(*) AS requests FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') GROUP BY user_src ORDER BY requests DESC
default-Top- IPSEC-Vpn- Dial-Up-User- By-Bandwidth	Default top IPsec VPN dial up user by bandwidth usage	event	SELECT user_src,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width FROM ### (SELECT coalesce(nullifna(`xauthuser`), nullifna(`user`), ipstr (`remip`)) AS user_src,
default-Top- Sources-Of- SSL-VPN-Tun- nels-By-Band- width	1	event	SELECT remip AS remote_ip,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width FROM ### (SELECT remip,     tunnelid,     min(coalesce(sentbyte, 0)) AS sent_beg,

Dataset Name	Description	Log Category	Query Syntax
			remip ORDER BY tunnelid)### t GROUP BY remote_ip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)>0 ORDER BY bandwidth DESC
default-Unclassified-AP-Summary	Default unclassified access point summary	event	SELECT (CASE onwire  WHEN 'no' THEN 'off-wire'  WHEN 'yes' THEN 'on-wire'  ELSE 'others'  END) AS ap_status,  count(*) AS totalnum  FROM ###  (SELECT onwire,  ssid,  bssid,  count(*) AS subtotal  FROM \$log  WHERE \$filter  AND apstatus=0  AND bssid IS NOT NULL  AND logid_to_int(logid) IN (43521,  43525,  43527)  GROUP BY onwire,  ssid, bssid  ORDER BY subtotal DESC)### t  GROUP BY ap_status  ORDER BY totalnum DESC
Detailed- Application- Usage	Detailed application usage	Traffic	SELECT appid, app, appcat, (CASE utmaction WHEN 'blocked' THEN 'Blocked' ELSE 'Allowed' END) AS custaction, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, count(*) AS num_session FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND nullifna(app) IS NOT NULL AND policyid != 0 GROUP BY appid, app, appcat, custaction ORDER BY bandwidth DESC
Detected-Bot- net	Detected bot- net	Traffic	SELECT app, count(*) AS events FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)

Dataset Name	Description	Log Category	Query Syntax	
Name			AND appcat='Botnet' AND nullifna(app) IS NOT NULL GROUP BY app ORDER BY events DESC	
drilldown-Top- App-By-Band- width	Drilldown top applications by bandwidth usage	Traffic	SELECT appid, app, sum(bandwidth) AS bandwidth FROM ### (SELECT appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr cip`)) AS user_src,  dstip, srcintf, dstintf, policyid, count(*) AS ses- sions,  sum (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY appid, app, user_src, dstip, srcintf, dstintf, policyid ORDER BY sessions DESC)### t WHERE \$filter-var-ONLY AND nullifna(app) IS NOT NULL GROUP BY appid, app HAVING sum(bandwidth)>0 ORDER BY bandwidth DESC	
drilldown-Top- App-By-Ses- sions	Drilldown top applications by session count	Traffic	SELECT appid,     app,     sum(sessions) AS sessions FROM ### (SELECT appid,     app,     coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr cip`)) AS user_src,      dstip,     srcintf,     dstintf,     policyid,     count(*) AS sessions,  sum (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,     7,	

Dataset Name	Description	Log Category	Query Syntax
			14) GROUP BY appid, app, user_src, dstip, srcintf, dstintf, policyid ORDER BY sessions DESC)### t WHERE \$filter-var-ONLY AND nullifna(app) IS NOT NULL GROUP BY appid, app ORDER BY sessions DESC
drilldown-Top- Attack-Dest	Drilldown top attack dest	attack	SELECT dstip, sum(totalnum) AS totalnum FROM ### (SELECT srcip, dstip, count(*) AS totalnum FROM \$log WHERE \$filter-exclude-var GROUP BY srcip, dstip ORDER BY totalnum DESC)### t WHERE \$filter-var-ONLY AND dstip IS NOT NULL GROUP BY dstip ORDER BY totalnum DESC
drilldown-Top- Attack-List	Drilldown top attack list	attack	SELECT FROM_itime(itime) AS TIMESTAMP, attack, srcip, dstip FROM ### (SELECT itime, attack, srcip, dstip FROM \$log WHERE \$filter-exclude-var ORDER BY itime DESC)### t WHERE \$filter-var-ONLY ORDER BY itime DESC
drilldown-Top- Attack-Source	Drilldown top attack source	attack	SELECT srcip, sum(totalnum) AS totalnum FROM ### (SELECT srcip, dstip, count(*) AS totalnum FROM \$log WHERE \$filter-exclude-var GROUP BY srcip, dstip ORDER BY totalnum DESC)### t WHERE \$filter-var-ONLY AND srcip IS NOT NULL GROUP BY srcip ORDER BY totalnum DESC

Dataset Name	Description	Log Category	Query Syntax
drilldown-Top- Destination- By-Bandwidth	Drilldown top destination by bandwidth usage	Traffic	SELECT dstip, sum(bandwidth) AS bandwidth FROM ### (SELECT appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,  dstip, srcintf, dstintf, policyid, count(*) AS sessions,  sum (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY appid, app, user_src, dstip, srcintf, dstintf, policyid ORDER BY sessions DESC)### t WHERE \$filter-var-ONLY AND dstip IS NOT NULL GROUP BY dstip HAVING sum(bandwidth)>0 ORDER BY bandwidth DESC
drilldown-Top- Destination- By-Sessions	Drilldown top destination by session count	Traffic	SELECT dstip, sum(sessions) AS sessions FROM ### (SELECT appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,  dstip, srcintf, dstintf, policyid, count(*) AS sessions,  sum (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY appid, app, user_src, dstip, srcintf, dstintf,

Dataset Name	Description	Log Category	Query Syntax
			policyid ORDER BY sessions DESC)### t WHERE \$filter-var-ONLY AND dstip IS NOT NULL GROUP BY dstip ORDER BY sessions DESC
drilldown-Top- Email- Receiver-By- Count	Drilldown top email receiver by count	Traffic	SELECT recipient, sum(requests) AS requests FROM (###  (SELECT recipient, sender, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('pop3', 'POP3', 'I10/tcp', 'imap', 'imap', 'iMAP', '143/tcp', 'imaps', 'gop3s', 'pOP3S', 'gop5/tcp') AND utmevent IN ('general-email-log', 'spamfilter') GROUP BY recipient, sender ORDER BY requests DESC)### UNION ALL ### (SELECT 'to' AS recipient, 'FROM' AS sender, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0)) AS bandwidth FROM \$log-emailfilter WHERE \$filter-exclude-var AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'iMAP', '143/tcp', 'imaps', 'iMAP', '143/tcp', 'imaps', 'iMAPS', 'gog3/tcp', 'pop3s', 'pOP3S', 'gog4/tcp', 'pop3s', 'pOP3S', 'gog4/tcp', 'pop3s', 'pOP3S', 'gog4/tcp', 'pop3s', 'pOP3S', 'gog5/tcp') AND eventtype IS NULL GROUP BY 'to', 'FROM'

Dataset Name	Description	Log Category	Query Syntax
			ORDER BY requests DESC)###) t WHERE \$filter-var-ONLY AND recipient IS NOT NULL GROUP BY recipient ORDER BY requests DESC
drilldown-Top- Email- Receiver-By- Volume	Drilldown top email receiver by volume	Traffic	SELECT recipient, sum(bandwidth) AS volume FROM (###  (SELECT recipient, sender, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'iMAP', '143/tcp', 'imaps', 'iMAPS', '993/tcp', 'pop3s', 'pOP3s', 'pOP3s', 'pOP3s', 'pOP3s', 'pOP3s', 'pOP3s', 'pop3s', 'pOP3s', 'spamfilter') GROUP BY recipient, sender ORDER BY requests DESC)### UNION ALL ### (SELECT 'to' AS recipient, 'FROM' AS sender, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0)) AS bandwidth FROM \$log-emailfilter WHERE \$filter-exclude-var AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imaps', 'IMAP', '143/tcp', '

Dataset Name	Description	Log Category	Query Syntax
			WHERE \$filter-var-ONLY AND recipient IS NOT NULL GROUP BY recipient HAVING sum(bandwidth)>0 ORDER BY volume DESC
drilldown-Top- Email- Receive- Sender-By- Count	Drilldown top email receive sender by count	Traffic	SELECT sender, sum(requests) AS requests FROM (###  (SELECT recipient, sender, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp') AND utmevent IN ('general-email-log', 'spamfilter') GROUP BY recipient, sender ORDER BY requests DESC)### UNION ALL ### (SELECT 'to' AS recipient,

Dataset Name	Description	Log Category	Query Syntax
Nume			AND sender IS NOT NULL GROUP BY sender ORDER BY requests DESC
drilldown-Top- Email- Receive- Sender-By- Volume	Drilldown top email receive sender by volume	Traffic	SELECT sender, sum(bandwidth) AS volume FROM (###  (SELECT recipient, sender, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,  0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp') AND utmevent IN ('general-email-log', 'spamfilter') GROUP BY recipient, sender ORDER BY requests DESC)### UNION ALL ### (SELECT 'to' AS recipient, 'FROM' AS sender, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0)) AS bandwidth FROM \$log-emailfilter WHERE \$filter-exclude-var AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imap', 'IMAP', '143/tcp', 'imaps', 'IMAP', '143/tcp', 'imaps', 'IMAP', '143/tcp', 'imaps', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', '

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY sender HAVING sum(bandwidth)>0 ORDER BY volume DESC
drilldown-Top- Email-Sender- By-Count		Traffic	SELECT sender, sum(requests) AS requests FROM (###  (SELECT sender, recipient, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,  0)) AS bandwidth FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') AND utmevent IN ('general-email-log', 'spamfilter') GROUP BY sender, recipient ORDER BY requests DESC)### UNION ALL ### (SELECT 'FROM' AS sender, 'to' AS recipient, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0)) AS bandwidth FROM \$log-emailfilter WHERE \$filter-exclude-var AND service IN ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'sMTPS', '465/tcp') AND eventtype IS NULL GROUP BY 'FROM', 'to' ORDER BY requests DESC)###) t WHERE \$filter-var-ONLY AND sender IS NOT NULL GROUP BY 'SENDER ORDER BY requests DESC
drilldown-Top- Email-Sender- By-Volume		Traffic	SELECT sender, sum(bandwidth) AS volume FROM (### (SELECT sender, recipient, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth

Dataset Name	Description	Log Category	Query Syntax
			FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'YMTPS', '465/tcp') AND utmevent IN ('general-email-log', 'spamfilter') GROUP BY sender, recipient ORDER BY requests DESC)### UNION ALL ### (SELECT 'FROM' AS sender, 'to' AS recipient, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0)) AS bandwidth FROM \$log-emailfilter WHERE \$filter-exclude-var AND service IN ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') AND eventtype IS NULL GROUP BY 'FROM', 'to' ORDER BY requests DESC)###) t WHERE \$filter-var-ONLY AND sender IS NOT NULL GROUP BY sender HAVING sum(bandwidth)>0 ORDER BY volume DESC
drilldown-Top- Email-Send- Recipient-By- Count	Drilldown top email send recipient by count	Traffic	SELECT recipient, sum(requests) AS requests FROM (###  (SELECT sender, recipient, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS',

Dataset Name	Description	Log Category	Query Syntax
			'465/tcp')  AND utmevent IN ('general-email-log',
drilldown-Top- Email-Send- Recipient-By- Volume	Drilldown top email send recipient by volume	Traffic	SELECT recipient, sum(bandwidth) AS volume FROM (###  (SELECT sender, recipient, count(*) AS requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') AND utmevent IN ('general-email-log', 'spamfilter') GROUP BY sender, recipient ORDER BY requests DESC)### UNION ALL ### (SELECT `FROM` AS sender, 'to` AS recipient, count(*) AS requests,

Dataset Name	Description	Log Category	Query Syntax
			sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0)) AS bandwidth FROM \$log-emailfilter WHERE \$filter-exclude-var AND service IN ('smtp',
drilldown-Top- User-By-Band- width		Traffic	SELECT user_src,     sum(bandwidth) AS bandwidth FROM ### (SELECT appid,     app,     coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,      dstip,     srcintf,     dstintf,     policyid,     count(*) AS sessions,  sum (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var     AND logid_to_int(logid) NOT IN (4,
drilldown-Top- User-By-Ses- sions	Drilldown top user by ses- sion count	Traffic	SELECT user_src, sum(sessions) AS sessions FROM ### (SELECT appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`sr-cip`)) AS user_src,

Dataset	Description	Log Category	Query Syntax
Name	Description	Log Category	dstip, srcintf, dstintf, policyid, count(*) AS ses- sions, sum (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY appid, app, user_src, dstip, srcintf, dstintf, policyid ORDER BY sessions DESC)### t WHERE \$filter-var-ONLY AND user_src IS NOT NULL
drilldown-Top- Website-By- Request	Drilldown top website by request	Traffic	GROUP BY user_src ORDER BY sessions DESC  SELECT hostname,     sum(requests) AS visits FROM (###     (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`),     ipstr(`srcip`)) AS user_src,      hostname,     count(*) AS  requests FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,     7,     14) AND utmevent IN ('webfilter',     'banned-word',     'web-content',     'command-block',     'script-filter') AND hostname IS NOT NULL GROUP BY user_src,     hostname ORDER BY requests DESC)### UNION ALL ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_ src,     hostname,     count(*) AS requests FROM \$log-webfilter WHERE \$filter-exclude-var     AND eventtype IS NULL     AND hostname IS NOT NULL GROUP BY user_src,     hostname  ORDER BY requests NOT NULL GROUP BY user_src,     hostname

Dataset Name	Description	Log Category	Query Syntax	
			ORDER BY requests DESC)###) t WHERE \$filter-var-ONLY AND hostname IS NOT NULL GROUP BY hostname ORDER BY visits DESC	
drilldown-Top- Web-User-By- Visit	Drilldown top web user by visit	Traffic	SELECT user_src,     sum(requests) AS visits FROM (###     (SELECT coalesce(nullifna(`user`), nullifna(`unauthuse ipstr(`srcip`)) AS user_src,	
drilldown- Virus-Detail	Drilldown virus detail	Traffic	SELECT FROM_itime(itime) AS TIMESTAMP, virus, user_src, dstip, hostname, recipient FROM (### (SELECT itime, virus, coalesce(nullifna(`user`), nullifna(`unauthuser`), ip (`srcip`)) AS user_src,  dstip, hostname, recipient FROM \$log-traffic	ostr

Dataset Name	Description	Log Category	Query Syntax
			WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IS NOT NULL AND virus IS NOT NULL ORDER BY itime DESC)### UNION ALL ### (SELECT itime, virus, coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, dstip, cast(''AS char) AS hostname, cast(''AS char) AS recipient FROM \$log-virus WHERE \$filter-exclude-var AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL ORDER BY itime DESC)###) t WHERE \$filter-var-ONLY ORDER BY itime DESC
Estimated- Browsing- Time	Estimated browsing time	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     sum(\$browse_time) AS browsetime FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Estimated- Browsing- Time- Enhanced	Estimated browsing time enhanced	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     sum(\$browse_time2) AS browsetime FROM \$log WHERE \$filter     AND logid_to_int(logid) NOT IN (4,
event-Admin- Failed-Login- Summary	Event admin failed login summary	event	SELECT `user` AS f_user, ui, count(status) AS total_failed FROM \$log WHERE \$filter AND nullifna(`user`) IS NOT NULL AND logid_to_int(logid) = 32002 GROUP BY ui, f_user ORDER BY total_failed DESC
event-Admin- Login-Sum- mary	Event admin login sum- mary	event	SELECT `user` AS f_user, ui, sum(CASE WHEN logid_to_int(logid)=32001 THEN 1 ELSE 0 END) AS total_num,

Dataset Name	Description	Log Category	Query Syntax
			sum(CASE WHEN logid_to_int(logid)=32003 THEN duration ELSE 0 END) AS total_duration,     count(STATE) AS total_change FROM \$log WHERE \$filter AND nullifna(`user`) IS NOT NULL AND logid_to_int(logid) IN (32001,
event-Admin- Login-Sum- mary-By-Date	Event admin login sum- mary by date	event	SELECT \$flex_timescale AS dom,     sum(CASE WHEN logid_to_int(logid)=32001 THEN 1 ELSE 0 END) AS total_num,     count(STATE) AS total_change FROM \$log WHERE \$filter AND nullifna('user') IS NOT NULL AND logid_to_int(logid) IN (32001,
event-System- Critical-Sever- ity-Events		event	SELECT msg_desc AS msg,     severity,     sum(COUNT) AS counts FROM ###     (SELECT coalesce(nullifna(logdesc), msg) AS msg_desc,
event-System- High-Severity- Events	Event system high severity events	event	SELECT msg_desc AS msg, severity, sum(COUNT) AS counts FROM ### (SELECT coalesce(nullifna(logdesc), msg) AS msg_desc, (CASE WHEN LEVEL IN ('critical',

Dataset Name	Description	Log Category	Query Syntax
			COUNT(*) AS COUNT FROM \$log WHERE \$filter AND subtype='system' GROUP BY msg_desc, severity ORDER BY COUNT DESC)### t WHERE severity='High' GROUP BY msg, severity ORDER BY Counts DESC
event-System- Medium- Severity- Events	Event system medium severity events	event	SELECT msg_desc AS msg,     severity,     sum(COUNT) AS counts  FROM ###  (SELECT coalesce(nullifna(logdesc), msg) AS msg_desc, (CASE WHEN LEVEL IN ('critical',
event-System- Summary-By- Date	Event system summary by date	event	SELECT \$flex_timescale AS dom,     sum(CASE WHEN LEVEL IN ('critical', 'alert', 'emergency')  THEN 1 ELSE 0 END) AS critical,     sum(CASE WHEN LEVEL = 'error' THEN 1 ELSE 0 END) AS  high,     sum(CASE WHEN LEVEL = 'warning' THEN 1 ELSE 0 END)  AS medium,     sum(CASE WHEN LEVEL = 'notice' THEN 1 ELSE 0 END)  AS low,     sum(CASE WHEN LEVEL = 'information'     OR LEVEL = 'debug' THEN 1 ELSE 0 END) AS info  FROM \$log  WHERE \$filter  AND subtype='system'  GROUP BY dom  ORDER BY dom
event-System- Summary-By- Severity	Event system summary by severity	event	SELECT (CASE WHEN LEVEL IN ('critical',

Dataset Name	Description	Log Category	Query Syntax
			END) AS severity, count(*) AS total_num FROM \$log WHERE \$filter AND subtype='system' GROUP BY severity ORDER BY total_num DESC
			DROP TABLE IF EXISTS pre_clt_list;  DROP TABLE IF EXISTS cur_clt_list;  DROP TABLE IF EXISTS allocated_ip;  CREATE TEMPORARY TABLE pre_clt_list AS ### (SELECT concat(interface, '.', devid) AS intf,
			mac FROM \$log WHERE \$last3day_period \$filter AND logid_to_int(logid) = 26001 AND dhcp_msg = 'Ack' GROUP BY interface, devid, mac)###;
event-Top- DHCP-Sum- mary	Event top dhcp sum- mary	event	CREATE TEMPORARY TABLE cur_clt_list AS ### (SELECT concat(interface, '.', devid) AS intf,
			CREATE TEMPORARY TABLE allocated_ip AS ### (SELECT t31.intf,     percent_of_allocated_ip FROM     (SELECT concat(interface, '.', devid) AS intf,
			itime FROM \$log WHERE \$filter AND logid_to_int(logid) = 26003 AND total != 0 GROUP BY interface, devid, percent_of_allocated_ip, itime) t31 INNER JOIN (SELECT concat(interface,'.', devid) AS intf,

Dataset Name	Description	Log Category	Query Syntax
			max(itime) AS max_itime  FROM \$log WHERE \$filter AND logid_to_int(logid) = 26003 GROUP BY interface,
event-Usage- CPU	Event usage CPU	event	SELECT hourstamp,     cast(sum(cpu_usage)/sum(num) AS decimal(6,2)) AS cpu_ avg_usage FROM ### (SELECT \$hour_of_day AS hourstamp,
event-Usage- CPU-Ses- sions	Event usage CPU ses- sions	event	SELECT hourstamp, cast(sum(sess_usage)/sum(num) AS decimal(10,2)) AS sess_avg_usage, cast(sum(cpu_usage)/sum(num) AS decimal(6,2)) AS cpu_ avg_usage FROM ### (SELECT \$hour_of_day AS hourstamp, sum(cpu) AS cpu_usage, sum(totalsession) AS sess_usage, count(*) AS num FROM \$log WHERE \$filter AND subtype='system' AND action='perf-stats' GROUP BY hourstamp)### t GROUP BY hourstamp

Dataset Name	Description	Log Category	Query Syntax
			ORDER BY hourstamp
event-Usage- Mem	Event usage memory	event	SELECT hourstamp, cast(sum(mem_usage)/sum(num) AS decimal(6,2)) AS mem_avg_usage FROM ### (SELECT \$hour_of_day AS hourstamp, sum(mem) AS mem_usage, count(*) AS num FROM \$log WHERE \$filter AND subtype='system' AND action='perf-stats' GROUP BY hourstamp)### t GROUP BY hourstamp ORDER BY hourstamp
event-Usage- Sessions	Event usage sessions	event	SELECT hourstamp, cast(sum(sess_usage)/sum(num) AS decimal(10,2)) AS sess_avg_usage FROM ### (SELECT \$hour_of_day AS hourstamp, sum(totalsession) AS sess_usage, count(*) AS num FROM \$log WHERE \$filter AND subtype='system' AND action='perf-stats' GROUP BY hourstamp)### t GROUP BY hourstamp ORDER BY hourstamp
event-Wire- less-Accep- ted-Offwire	Event wire- less accep- ted off-wire	event	SELECT 'accepted' AS ap_full_status,     devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     FROM_dtime(max(last_seen)) AS last_seen,     detectionmethod,     snclosest,     'no' AS on_wire  FROM ### (SELECT devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     detectionmethod,     snclosest,     onwire,     logid,     apstatus,     max(dtime) AS last_seen  FROM \$log WHERE \$filter     AND bssid IS NOT NULL

Dataset Name	Description	Log Category	Query Syntax
Name	Description	Log Category	AND logid_to_int(logid) IN (43521,
			detectionmethod, snclosest  ORDER BY last_seen DESC  SELECT 'accepted' AS ap_full_status, devid, vd, ssid, bssid, manuf, channel, radioband, FROM_dtime(max(last_seen)) AS last_seen,
event-Wire- less-Accep- ted-Onwire	Event wire- less accep- ted on-wire	event	detectionmethod, snclosest, 'yes' AS on_wire FROM ### (SELECT devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest, onwire, apstatus, max(dtime) AS last_seen FROM \$log WHERE \$filter AND bssid IS NOT NULL AND logid_to_int(logid) IN (43521, 43525) GROUP BY devid, vd,

Dataset Name	Description	Log Category	Query Syntax
			ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest, onwire, apstatus ORDER BY last_seen DESC)### t WHERE apstatus=2 AND onwire='yes' GROUP BY devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest ORDER BY last_seen DESC
event-Wire- less-Client- Details	Event wire- less client details	event	DROP TABLE IF EXISTS ip_list;  CREATE TEMPORARY TABLE ip_list AS SELECT ip,     lower(mac) AS Imac,     sn,     ssid,     channel,     radioband,     min(dtime) AS FIRST,     max(dtime) AS LAST FROM \$log-event WHERE \$filter AND ip IS NOT NULL AND mac IS NOT NULL AND sn IS NOT NULL AND ssid IS NOT NULL GROUP BY ip,     lmac,     sn,     ssid,     channel,     radioband ORDER BY ip;  SELECT user_src,     ip,     lmac,     sn,     ssid,     channel,     radioband, FROM_dtime(FIRST) AS first_seen,     FROM_dtime(LAST) AS last_seen,     cast(volume AS decimal(18,2)) AS bandwidth FROM

Dataset Name	Description	Log Category	Query Syntax
			(SELECT* FROM ip_list INNER JOIN (SELECT user_src,
			ORDER BY user_src, srcip) t ON ip_list.ip = t.srcip) t ORDER BY volume DESC
event-Wire- less-Rogue- Offwire	Event wire- less rogue off-wire	event	SELECT 'rogue' AS ap_full_status,     devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     FROM_dtime(max(last_seen)) AS last_seen,     detectionmethod,     snclosest,     'no' AS on_wire FROM ###     (SELECT devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     detectionmethod,     snclosest,     onwire,     logid,     apstatus,     max(dtime) AS last_seen FROM \$log     WHERE \$filter     AND bssid IS NOT NULL     AND logid IN ('43521',

Dataset Name	Description	Log Category	Query Syntax
Name			GROUP BY devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest, onwire, logid, apstatus ORDER BY last_seen DESC)### t WHERE apstatus=1 AND onwire='no' GROUP BY devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
event-Wire- less-Rogue- Onwire	Event wire- less rogue on-wire	event	snclosest ORDER BY last_seen DESC  SELECT 'rogue' AS ap_full_status,     devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     FROM_ditme(max(last_seen)) AS last_seen,     detectionmethod,     snclosest,     'yes' AS on_wire  FROM ### (SELECT devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     detectionmethod,     snclosest,     onwire,     apstatus,     max(dtime) AS last_seen  FROM \$log WHERE \$filter  AND bssid IS NOT NULL  AND logid_to_int(logid) IN (43521,     43525)  GROUP BY devid,     vd,     ssid,     bssid,

Dataset Name	Description	Log Category	Query Syntax
			manuf, channel, radioband, detectionmethod, snclosest, onwire, apstatus ORDER BY last_seen DESC)### t WHERE apstatus=1 AND onwire='yes' GROUP BY devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest
_			ORDER BY last_seen DESC  SELECT 'suppressed' AS ap_full_status, devid,
event-Wire- less-Sup- pressed- Offwire	Event wire- less sup- pressed off- wire	event	devid, vid, ssid, bssid, manuf, channel, radioband, FROM_dtime(max(last_seen)) AS last_seen, detectionmethod, snclosest, 'no' AS on_wire FROM ### (SELECT devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest, onwire, logid, apstatus, max(dtime) AS last_seen FROM \$log WHERE \$filter AND bssid IS NOT NULL AND logid_to_int(logid) IN (43521,

Dataset Name	Description	Log Category	Query Syntax
			snclosest, onwire, logid, apstatus ORDER BY last_seen DESC)### t WHERE apstatus=3 AND onwire='no' GROUP BY devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest ORDER BY last_seen DESC
event-Wire- less-Sup- pressed- Onwire	Event wire- less sup- pressed on- wire	event	SELECT 'suppressed' AS ap_full_status,     devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     FROM_dtime(max(last_seen)) AS last_seen,     detectionmethod,     snclosest,     'yes' AS on_wire FROM ### (SELECT devid,     vd,     ssid,     bssid,     manuf,     channel,     radioband,     detectionmethod,     snclosest,     onwire,     apstatus,     max(dtime) AS last_seen FROM \$log WHERE \$filter     AND bssid IS NOT NULL     AND logid_to_int(logid) IN (43521,

Dataset Desc	ription L	og Category	Query Syntax
event-Wire-less-Unclas-	: wire-	event	WHERE apstatus=3 AND onwire='yes' GROUP BY devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest ORDER BY last_seen DESC  SELECT 'unclassified' AS ap_full_status, devid, vd, ssid, bssid, manuf, channel, radioband, FROM_dtime(max(last_seen)) AS last_seen, detectionmethod, snclosest, 'no' AS on_wire  FROM ### (SELECT devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest, onwire, logid, apstatus, max(dtime) AS last_seen FROM \$  WHERE \$  WHERE \$  GROUP BY devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest, onwire, logid, apstatus, max(dtime) AS last_seen FROM \$  SIGN \$
			logid, apstatus ORDER BY last_seen DESC)### t WHERE apstatus=0 AND onwire='no' GROUP BY devid,

Dataset Name	Description	Log Category	Query Syntax
event-Wire- less-Unclas- sified-Onwire	Event wire- less unclas- sified on-wire	event	vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest ORDER BY last_seen DESC  SELECT 'unclassified' AS ap_full_status, devid, vd, ssid, bssid, manuf, channel, radioband, FROM_dtime(max(last_seen)) AS last_seen, detectionmethod, snclosest, 'yes' AS on_wire  FROM ### (SELECT devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest, onwire, apstatus, max(dtime) AS last_seen FROM \$log WHERE \$filter AND bssid IS NOT NULL AND logid_to_int(logid) IN (43521, 43525) GROUP BY devid, vd,

Dataset Name	Description	Log Category	Query Syntax
			radioband, detectionmethod, snclosest ORDER BY last_seen DESC
High-Risk- Application- By-Bandwidth	High risk application by bandwidth usage	Traffic	SELECT t2.name,     d_behavior,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log t1 INNER JOIN app_mdata t2 ON t1.appid=t2.id WHERE \$filter AND logid_to_int(logid) NOT IN (4,
High-Risk- Application- By-Sessions	High risk application by session count	Traffic	SELECT t2.name,     d_behavior,     count(*) AS sessions FROM \$log t1 INNER JOIN app_mdata t2 ON t1.appid=t2.id WHERE \$filter AND logid_to_int(logid) NOT IN (4,
number-of-ses- sion-timeline	Number of session timeline	Traffic	SELECT \$flex_timescale AS hodex, count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
os-Detect-OS- Count	Detected operation system count	Traffic	SELECT (coalesce(osname, 'Unknown')) AS os, count(*) AS totalnum FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY os ORDER BY totalnum DESC
reputation- Number-Of- Incidents-For- All-Users- Devices	Reputation number of incidents for all users devices	Traffic	SELECT \$flex_timescale AS hodex, sum(crscore%65536) AS scores, count(*) AS totalnum FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)

Dataset Name	Description	Log Category	Query Syntax
			AND crscore IS NOT NULL GROUP BY hodex HAVING sum(crscore%65536)>0 ORDER BY hodex
reputation- Score-Sum- mary-For-All- Users- Devices	Reputation score sum- mary for all users devices	Traffic	SELECT \$flex_timescale AS hodex, sum(crscore%65536) AS scores FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND crscore IS NOT NULL GROUP BY hodex HAVING sum(crscore%65536)>0 ORDER BY hodex
reputation- Top-Devices- By-Scores	Reputation top devices by scores	Traffic	SELECT devtype, coalesce(nullifna(`srcname`),nullifna(`srcmac`), ipstr(`srcip`)) AS dev_src, sum(crscore%65536) AS scores FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND crscore IS NOT NULL GROUP BY devtype, dev_src HAVING sum(crscore%65536)>0 ORDER BY scores DESC
reputation- Top-Devices- With- Increased- Scores	Reputation top devices with increased scores	Traffic	DROP TABLE IF EXISTS prd1_dev_tbl;  DROP TABLE IF EXISTS prd2_dev_tbl;  CREATE  TEMPORARY TABLE prd1_dev_tbl AS ###  (SELECT coalesce(nullifna(`srcname`),nullifna(`srcmac`), ipstr (`srcip`)) AS f_device,  devtype, sum  (crscore%65536) AS sum_rp_score  FROM \$log  WHERE \$pre_period \$filter  AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			7, 14) AND crscore IS NOT NULL GROUP BY f_device, devtype HAVING sum(crscore%65536)>0 ORDER BY sum_rp_score DESC)###;  SELECT t1.f_device, t1.devtype, sum(t1.sum_rp_score) AS t1_sum_score, sum(t2.sum_rp_score) AS t2_sum_score, (sum(t2.sum_rp_score)-sum(t1.sum_rp_score)) AS delta FROM prd1_dev_tbl AS t1 INNER JOIN prd2_dev_tbl AS t2 ON t1.f_device=t2.f_device AND t1.devtype=t2.devtype WHERE t2.sum_rp_score > t1.sum_rp_score GROUP BY t1.f_device, t1.devtype ORDER BY delta DESC
reputation- Top-Users-By- Scores	Reputation top users by scores	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     sum(crscore%65536) AS scores FROM \$log WHERE \$filter     AND logid_to_int(logid) NOT IN (4,
reputation- Top-Users- With- Increased- Scores	Reputation top users with increased scores	Traffic	DROP TABLE IF EXISTS prd1_usr_tbl;  DROP TABLE IF EXISTS prd2_usr_tbl;  CREATE  TEMPORARY TABLE prd1_usr_tbl AS ###  (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr  (`srcip`)) AS f_user,  sum  (crscore%65536) AS sum_rp_score  FROM \$log  WHERE \$pre_period \$filter  AND logid_to_int(logid) NOT IN (4,  7,  14)  AND crscore IS NOT NULL  GROUP BY f_user HAVING sum(crscore%65536)>0  ORDER BY sum_rp_score DESC)###;  CREATE  TEMPORARY TABLE prd2_usr_tbl AS ###  (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr  (`srcip`)) AS f_user,  sum  (crscore%65536) AS sum_rp_score  FROM \$log  WHERE \$filter  AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			7, 14) AND crscore IS NOT NULL GROUP BY f_user HAVING sum(crscore%65536)>0 ORDER BY sum_rp_score DESC)###;  SELECT t1.f_user, sum(t1.sum_rp_score) AS t1_sum_score, sum(t2.sum_rp_score) AS t2_sum_score, (sum(t2.sum_rp_score)-sum(t1.sum_rp_score)) AS delta FROM prd1_usr_tbl AS t1 INNER JOIN prd2_usr_tbl AS t2 ON t1.f_user=t2.f_user WHERE t2.sum_rp_score > t1.sum_rp_score GROUP BY t1.f_user ORDER BY delta DESC
threat- Adware- Timeline	Threat adware timeline	virus	SELECT \$flex_timescale AS hodex, count(*) AS totalnum FROM \$log WHERE \$filter AND virus LIKE 'Adware%' GROUP BY hodex ORDER BY hodex DESC
threat-Attacks- By-Severity	Threat attacks by severity	attack	SELECT (CASE WHEN severity='critical' THEN 'Critical' WHEN severity='high' THEN 'High' WHEN severity='medium' THEN 'Medium' WHEN severity='low' THEN 'Low' WHEN severity='info' THEN 'Info' END) AS severity, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY severity ORDER BY totalnum DESC
threat-Attacks- Over-HTTP- HTTPs	Threat attacks over HTTP HTTPs	attack	SELECT attack,  (CASE  WHEN severity='critical' THEN 'Critical'  WHEN severity='high' THEN 'High'  WHEN severity='medium' THEN 'Medium'  WHEN severity='low' THEN 'Low'  WHEN severity='info' THEN 'Info'  END) AS severity,  count(*) AS totalnum,  (CASE  WHEN severity='critical' THEN 0  WHEN severity='high' THEN 1  WHEN severity='medium' THEN 2  WHEN severity='low' THEN 3  WHEN severity='low' THEN 4  ELSE 5  END) AS severity_number  FROM \$log  WHERE \$filter  AND severity IN ('critical',

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY attack, severity, severity_number ORDER BY severity_number, totalnum DESC
threat-Critical- Severity-Intru- sions	Threat critical severity intrusions	attack	SELECT attack, vuln_type, count(*) AS totalnum FROM \$log t1 LEFT JOIN ips_mdata t2 ON t1.attack=t2.name WHERE \$filter AND t1.severity = 'critical' GROUP BY attack, vuln_type ORDER BY totalnum DESC
threat-High- Severity-Intru- sions	Threat high severity intrusions	attack	SELECT attack, vuln_type, count(*) AS totalnum FROM \$log t1 LEFT JOIN ips_mdata t2 ON t1.attack=t2.name WHERE \$filter AND t1.severity='high' GROUP BY attack, vuln_type ORDER BY totalnum DESC
threat-Intrusions- Timeline-By- Severity	Threat intrusions timeline by severity	attack	SELECT \$flex_timescale AS timescale, (CASE WHEN severity='critical' THEN 'Critical' WHEN severity='high' THEN 'High' WHEN severity='medium' THEN 'Medium' WHEN severity='low' THEN 'Low' WHEN severity='info' THEN 'Info' END) AS severity, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY timescale, severity ORDER BY timescale
threat-Intru- sion-Timeline	Threat intrusion timeline	attack	SELECT \$flex_timescale AS hodex, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY hodex ORDER BY hodex
threat-Low- Severity-Intru- sions	Threat low severity intru- sions	attack	SELECT attack, vuln_type, count(*) AS totalnum FROM \$log t1 LEFT JOIN ips_mdata t2 ON t1.attack=t2.name WHERE \$filter AND t1.severity='low' GROUP BY attack, vuln_type ORDER BY totalnum DESC
threat-	Threat	attack	SELECT attack, vuln_type,

Dataset Name	Description	Log Category	Query Syntax
Medium- Severity-Intru- sions	medium severity intru- sions		count(*) AS totalnum FROM \$log t1 LEFT JOIN ips_mdata t2 ON t1.attack=t2.name WHERE \$filter AND t1.severity='medium' GROUP BY attack, vuln_type ORDER BY totalnum DESC
threat-Spy- ware-Timeline	Threat spy- ware timeline	virus	SELECT \$flex_timescale AS hodex, count(*) AS totalnum FROM \$log WHERE \$filter AND virus LIKE 'Riskware%' GROUP BY hodex ORDER BY hodex DESC
threat-Top- Adware-by- Name	Threat top adware by name	virus	SELECT virus, sum(totalnum) AS totalnum FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, virus, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY user_src, virus ORDER BY totalnum DESC)### t WHERE virus LIKE 'Adware%' GROUP BY virus ORDER BY totalnum DESC
threat-Top- Adware- Source	Threat top adware source	Traffic	SELECT srcip, hostname, count(*) AS totalnum FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND virus LIKE 'Adware%' GROUP BY srcip, hostname ORDER BY totalnum DESC
threat-Top- Adware-Vic- tims	Threat top adware victims	virus	SELECT user_src,     sum(totalnum) AS totalnum FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,     virus,     count(*) AS totalnum  FROM \$log WHERE \$filter GROUP BY user_src,     virus ORDER BY totalnum DESC)### t WHERE virus LIKE 'Adware%' GROUP BY user_src ORDER BY totalnum DESC
threat-Top- Attacks-	Threat top attacks	attack	SELECT attack, count(*) AS attack_count

Dataset Name	Description	Log Category	Query Syntax
Blocked	blocked		FROM \$log WHERE \$filter AND nullifna(attack) IS NOT NULL AND action IN ('deny',
threat-Top- Attacks-Detec- ted	Threat top attacks detected	attack	SELECT attack,     severity,     sum(attack_count) AS attack_count FROM ###     (SELECT attack, severity, (CASE WHEN severity = 'critical' THEN 1 WHEN severity = 'high' THEN 2 WHEN severity = 'medium' THEN 3 WHEN severity = 'low' THEN 4 ELSE 5 END) AS severity_level,  count(*) AS attack_count     FROM \$log     WHERE \$filter     AND nullifna(attack) IS NOT NULL     GROUP BY attack,         severity_level     ORDER BY severity_level,         attack_count DESC)### t GROUP BY attack,     severity,     severity,     severity_level ORDER BY severity_level,     attack_count DESC
threat-Top- Blocked-Intru- sions	Threat top blocked intru- sions	attack	SELECT attack,  (CASE  WHEN t1.severity='critical' THEN 'Critical'  WHEN t1.severity='high' THEN 'High'  WHEN t1.severity='medium' THEN 'Medium'  WHEN t1.severity='low' THEN 'Low'  WHEN t1.severity='nfo' THEN 'Info'  END) AS severity_name,  count(*) AS totalnum,  vuln_type,  (CASE  WHEN t1.severity='critical' THEN 0  WHEN t1.severity='high' THEN 1  WHEN t1.severity='medium' THEN 2  WHEN t1.severity='low' THEN 3  WHEN t1.severity='low' THEN 4  ELSE 5  END) AS severity_number  FROM \$log t1  LEFT JOIN ips_mdata t2 ON t1.attack=t2.name  WHERE \$filter  AND nullifna(attack) IS NOT NULL  AND action IN ('deny',  'blocked',  'reset',  'dropped')

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY attack, t1.severity, vuln_type ORDER BY severity_number, totalnum DESC
threat-Top- Intrusions-By- Types	Threat top intrusions by types	attack	SELECT vuln_type, count(*) AS totalnum FROM \$log t1 LEFT JOIN ips_mdata t2 ON t1.attack=t2.name WHERE \$filter AND vuln_type IS NOT NULL GROUP BY vuln_type ORDER BY totalnum DESC
threat-Top- Intrusion- Sources	Threat top intrusion sources	attack	SELECT SOURCE, sum(cri_num) AS critical, sum(high_num) AS high, sum(med_num) AS medium, sum(cri_num + high_num + med_num) AS totalnum FROM ### (SELECT srcip AS SOURCE, sum(CASE WHEN severity='critical' THEN 1 ELSE 0 END) AS cri_num, sum(CASE WHEN severity='high' THEN 1 ELSE 0 END) AS high_num, sum(CASE WHEN severity='medium' THEN 1 ELSE 0 END) AS med_num FROM \$log WHERE \$filter AND severity IN ('critical',
threat-Top- Intrusion-Vic- tims	Threat top intrusion victims	attack	SELECT victim, sum(cri_num) AS critical, sum(high_num) AS high, sum(med_num) AS medium, sum(cri_num + high_num + med_num) AS totalnum FROM ### (SELECT dstip AS victim, sum((CASE WHEN severity='critical' THEN 1 ELSE 0 END)) AS cri_num, sum(CASE WHEN severity='high' THEN 1 ELSE 0 END) AS high_num,  sum(CASE WHEN severity='medium' THEN 1 ELSE 0 END) AS med_num FROM \$log WHERE \$filter AND severity IN ('critical',

threat-Top- Monitored- Intrusions  Threat top monitored intrusions  attack	SELECT attack,  (CASE  WHEN t1.severity='critical' THEN 'Critical'  WHEN t1.severity='high' THEN 'High'  WHEN t1.severity='medium' THEN 'Medium'  WHEN t1.severity='low' THEN 'Low'  WHEN t1.severity='info' THEN 'Info'  END) AS severity_name,  count(*) AS totalnum,  vuln_type,  (CASE  WHEN t1.severity='critical' THEN 0  WHEN t1.severity='high' THEN 1  WHEN t1.severity='medium' THEN 2  WHEN t1.severity='low' THEN 3  WHEN t1.severity='low' THEN 4  ELSE 5  END) AS severity_number  FROM \$log t1
	LEFT JOIN ips_mdata t2 ON t1.attack=t2.name WHERE \$filter AND nullifna(attack) IS NOT NULL AND action NOT IN ('deny',
threat-Top- Threat top Spyware-by- spyware by virus Name name	SELECT virus, sum(totalnum) AS totalnum FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, virus, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY user_src, virus ORDER BY totalnum DESC)### t WHERE virus LIKE 'Riskware%' GROUP BY virus ORDER BY totalnum DESC
threat-Top- Threat top Spyware- spyware Source Traffic  threat-Top- Threat top virus	SELECT srcip, hostname, count(*) AS totalnum FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND virus LIKE 'Riskware%' GROUP BY srcip, hostname ORDER BY totalnum DESC

Dataset Name	Description	Log Category	Query Syntax
Spyware-Vic- tims	spyware vic- tims		sum(totalnum) AS totalnum FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,
threat-Top- Virus-Source	Threat top virus source	Traffic	SELECT srcip, hostname, sum(totalnum) AS totalnum FROM (###  (SELECT srcip, hostname, count(*) AS totalnum FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IS NOT NULL AND virus IS NOT NULL GROUP BY srcip, hostname ORDER BY totalnum DESC)### UNION ALL ### (SELECT srcip , ipstr('dstip') AS hostname, count(*) AS totalnum FROM \$log-virus WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL GROUP BY srcip, hostname ORDER BY totalnum DESC)###) t GROUP BY srcip, hostname ORDER BY totalnum DESC)###) t GROUP BY srcip, hostname ORDER BY totalnum DESC
threat-Virus- Timeline	Threat virus timeline	virus	SELECT hodex, sum(totalnum) AS totalnum FROM (### (SELECT \$flex_timescale AS hodex, count(*) AS totalnum FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IS NOT NULL AND virus IS NOT NULL GROUP BY hodex

Dataset Name	Description	Log Category	Query Syntax
			ORDER BY hodex DESC)### UNION ALL ### (SELECT \$flex_timescale AS hodex, count(*) AS totalnum FROM \$log-virus WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL GROUP BY hodex ORDER BY hodex DESC)###) t GROUP BY hodex ORDER BY hodex ORDER BY hodex ORDER BY hodex ORDER BY hodex
Top-App-By- Bandwidth	Top applications by bandwidth usage	Traffic	SELECT app_group_name(app) AS app_group,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,     sum(coalesce(rcvdbyte, 0)) AS traffic_in,     sum(coalesce(sentbyte, 0)) AS traffic_out,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Top-App-By- Sessions	Top applications by session count	Traffic	SELECT app_group_name(app) AS app_group,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Top-Destin- ations-By- Bandwidth	Top des- tinations by bandwidth usage	Traffic	SELECT coalesce(nullifna(root_domain(hostname)), ipstr(dstip)) AS DOMAIN,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,     sum(coalesce(rcvdbyte, 0)) AS traffic_in,     sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter     AND logid_to_int(logid) NOT IN (4,
Top-Destin- ations-By-Ses- sions	Top des- tinations by session	Traffic	SELECT coalesce(nullifna(root_domain(hostname)), ipstr(dstip)) AS DOMAIN, count(*) AS sessions

Dataset Name	Description	Log Category	Query Syntax
	count		FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY DOMAIN ORDER BY sessions DESC
Top-P2P-App- By-Bandwidth	Top P2P applications by bandwidth usage	Traffic	SELECT app_group_name(app) AS app_group,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,     sum(coalesce(rcvdbyte, 0)) AS traffic_in,     sum(coalesce(sentbyte, 0)) AS traffic_out,     count(*) AS sessions FROM \$log WHERE \$filter     AND logid_to_int(logid) NOT IN (4,
Top-P2P-App- By-Sessions	Top P2P applications by session count	Traffic	SELECT app_group_name(app) AS app_group,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Top-User-By- Sessions	Top user by session count	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Top-Users-By- Bandwidth	Top users by bandwidth usage	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src, srcip, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7,

Dataset Name	Description	Log Category	Query Syntax
			14) AND srcip IS NOT NULL GROUP BY user_src, srcip HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd-byte, 0))>0 ORDER BY bandwidth DESC
Top-User- Source-By- Sessions	Top user source by session count	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     count(*) AS sessions FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Top-Web-Cat- egory-by- Bandwidth	Top web category by bandwidth usage	webfilter	SELECT catdesc, sum(bandwidth) AS bandwidth FROM (###  (SELECT catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') GROUP BY catdesc HAVING sum(coalesce(sentbyte, 0))+coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) GROUP BY catdesc HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC)###) t GROUP BY catdesc ORDER BY bandwidth DESC
Top-Web-Cat- egory-by-Ses- sions		webfilter	SELECT catdesc, sum(sessions) AS sessions FROM (### (SELECT catdesc, count(*) AS sessions FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			14) AND utmevent IN ('webfilter',
Top-Web- Sites-by-Band- width	Top web sites by band- width usage	webfilter	SELECT DOMAIN, sum(bandwidth) AS bandwidth FROM (### (SELECT coalesce(nullifna(hostname), ipstr(`srcip`)) AS DOMAIN, sum(coalesce(sentbyte, 0)) +coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') GROUP BY DOMAIN HAVING sum(coalesce(sentbyte, 0) +coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT coalesce(nullifna(hostname), ipstr(`srcip`)) AS DOMAIN, sum(coalesce(sentbyte, 0)) +coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) GROUP BY DOMAIN HAVING sum(coalesce(sentbyte, 0) +coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC)###) t GROUP BY DOMAIN ORDER BY bandwidth DESC
Top-Web- Sites-by-Ses- sions	Top web sites by session count	webfilter	SELECT DOMAIN, sum(sessions) AS sessions FROM (### (SELECT coalesce(nullifna(hostname), ipstr(`srcip`)) AS DOMAIN,

Dataset Name	Description	Log Category	Query Syntax
Name			count(*) AS sessions  FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)  AND utmevent IN ('webfilter',
Total-Attack- Source	Total attack source	attack	SELECT count(*) AS totalnum FROM \$log WHERE \$filter
Total-Number- of-Botnet- Events	Total number of botnet events	Traffic	SELECT count(*) AS events FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND appcat='Botnet' AND nullifna(app) IS NOT NULL
Total-Number- of-Viruses	of viruses	Traffic	SELECT sum(totalnum) AS totalnum FROM (###  (SELECT count(*) AS totalnum FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IS NOT NULL AND virus IS NOT NULL ORDER BY totalnum DESC)### UNION ALL ### (SELECT count(*) AS totalnum FROM \$log-virus WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL ORDER BY totalnum DESC)###) t
Traffic-band-	Traffic band-	Traffic	SELECT \$flex_timescale AS hodex,

Dataset Name	Description	Log Category	Query Syntax
width-timeline	width timeline		sum(coalesce(sentbyte, 0)) AS traffic_out, sum(coalesce(rcvdbyte, 0)) AS traffic_in FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Traffic-Brows- ing-Time-Sum- mary		Traffic	SELECT hodex,     cast(sum(delta)/60.0 AS decimal(18, 2)) AS browsetime FROM ### (SELECT \$flex_timescale AS hodex,
Traffic-Brows- ing-Time-Sum- mary- Enhanced		Traffic	SELECT hodex,     cast(sum(delta)/60.0 AS decimal(18, 2)) AS browsetime FROM ### (SELECT \$flex_timescale AS hodex,
Traffic-History- By-Active- User	Traffic history by active user	Traffic	SELECT hodex,
Traffic-Top- Category-By- Browsing-	Traffic top cat- egory by browsing	Traffic	SELECT catdesc, sum(delta) AS browsetime, sum(bandwidth) AS bandwidth

Dataset Name	Description	Log Category	Query Syntax
Time	time		FROM ###  (SELECT catdesc,     sum(\$browse_time) AS delta,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,  0)) AS bandwidth   FROM \$log   WHERE \$filter   AND logid_to_int(logid) NOT IN (4,
Traffic-Top- Category-By- Browsing- Time- Enhanced	Traffic top category by browsing time enhanced	Traffic	SELECT catdesc, sum(delta) AS browsetime, sum(bandwidth) AS bandwidth FROM ### (SELECT catdesc, sum(\$browse_time2) AS delta, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND catdesc IS NOT NULL GROUP BY catdesc HAVING sum(\$browse_time2)>0 ORDER BY delta DESC)### t GROUP BY catdesc ORDER BY browsetime DESC
Traffic-Top- Destination- Countries-By- Browsing- Time	Traffic top destination countries by browsing time	Traffic	SELECT dstcountry, sum(delta) AS browsetime, sum(bandwidth) AS bandwidth, sum(traffic_in) AS traffic_in, sum(traffic_out) AS traffic_out FROM ### (SELECT dstcountry, sum(\$browse_time) AS delta, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(sentbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Traffic-Top-	Traffic top	Traffic	SELECT dstcountry,

Dataset Name	Description	Log Category	Query Syntax
Destination- Countries-By- Browsing- Time- Enhanced	destination countries by browsing time enhanced		sum(delta) AS browsetime, sum(bandwidth) AS bandwidth, sum(traffic_in) AS traffic_in, sum(traffic_out) AS traffic_out FROM ### (SELECT dstcountry, sum(\$browse_time2) AS delta, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce (rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY dstcountry HAVING sum(\$browse_time2)>0 ORDER BY delta DESC)### t GROUP BY dstcountry ORDER BY browsetime DESC
Traffic-Top- Domains-By- Browsing- Time	Traffic top domains by browsing time	Traffic	SELECT hostname, sum(\$browse_time) AS browsetime, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND hostname IS NOT NULL GROUP BY hostname HAVING sum(\$browse_time)>0 ORDER BY browsetime DESC
Traffic-Top- Domains-By- Browsing- Time- Enhanced	Traffic top domains by browsing time enhanced	Traffic	SELECT hostname, sum(\$browse_time2) AS browsetime, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
Traffic-Top- Sites-By- Browsing- Time	Traffic top sites by browsing time	Traffic	SELECT hostname, string_agg(DISTINCT catdesc, ', ') AS agg_catdesc, sum(delta) AS browsetime, sum(bandwidth) AS bandwidth, sum(traffic_in) AS traffic_in, sum(traffic_out) AS traffic_out FROM ###

Dataset Name	Description	Log Category	Query Syntax
			(SELECT hostname, catdesc, sum(\$browse_time) AS delta, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce (rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND hostname IS NOT NULL GROUP BY hostname, catdesc HAVING sum(\$browse_time)>0 ORDER BY delta DESC)### t GROUP BY hostname ORDER BY browsetime DESC
Traffic-Top- Sites-By- Browsing- Time- Enhanced	Traffic top sites by browsing time enhanced	Traffic	SELECT hostname,     string_agg(DISTINCT catdesc, ', ') AS agg_catdesc,     sum(delta) AS browsetime,     sum(bandwidth) AS bandwidth,     sum(traffic_in) AS traffic_in,     sum(traffic_out) AS traffic_out FROM ###  (SELECT hostname,     catdesc,     sum(\$browse_time2\$) AS delta,         sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,     sum(coalesce(sentbyte, 0)) AS traffic_out     FROM \$log     WHERE \$filter     AND logid_to_int(logid) NOT IN (4,
Traffic-Top- Users-By- Bandwidth	Traffic top users by bandwidth usage	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter    AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			ORDER BY bandwidth DESC
Traffic-Top- Web-Users- By-Browsing- Time	Traffic top web users by browsing time	Traffic	SELECT user_src, sum(delta) AS browsetime, sum(bandwidth) AS bandwidth, sum(traffic_in) AS traffic_in, sum(traffic_out) AS traffic_out FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, sum(\$browse_time) AS delta, sum(coalesce(sent-byte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in,
			sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter GROUP BY user_src HAVING sum(\$browse_time)>0 ORDER BY delta DESC)### t GROUP BY user_src ORDER BY browsetime DESC
Traffic-Top- WiFi-Client- By-Bandwidth	Traffic top WiFi client by bandwidth usage	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src, srcssid, devtype, coalesce(nullifna(`srcname`), `srcmac`) AS hostname_mac, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)  AND (srcssid IS NOT NULL OR dstssid IS NOT NULL) GROUP BY user_src, srcssid, devtype, hostname_mac HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC
Traffic-User- Detail	Traffic user detail	Traffic	SELECT 'User: '    string_agg(DISTINCT coalesce(nullifna ('user'), 'Unknown'), '/')    ' '    'Source IP: '    string_agg(DISTINCT coalesce(ipstr(srcip), 'Unknown'), '/')    ' '    'Hostname (MAC): '    string_agg(DISTINCT coalesce(host_dev, 'Unknown'), '/')    ' '    'Source Interface: '    string_agg(DISTINCT coalesce(nullifna (srcintf), 'Unknown'), '/')    '      'Devices: '    string_agg(distinct coalesce(devid, 'UNKNOWN'), '/') AS user_detail FROM ### (SELECT 'user', srcip, coalesce(nullifna('srcname'),nullifna('srcmac')) AS host_dev, srcintf, devid,

Dataset Name	Description	Log Category	Query Syntax
			count(*) AS events FROM \$log WHERE \$filter GROUP BY `user`, srcip, host_dev, srcintf, devid ORDER BY events DESC)### t
user-drill- down-Count- Spam-Activity- by-Hour-of- Day	User drill- down count spam activity by hour of day	emailfilter	SELECT hourstamp, sum(totalnum) AS totalnum FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,
user-drill- down-Top- Allowed-Web- Categories	User drill- down top allowed web categories	webfilter	ORDER BY hourstamp  SELECT catdesc,     sum(requests) AS requests FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,     catdesc,     action,     count(*) AS requests  FROM \$log WHERE \$filter-exclude-var AND catdesc IS NOT NULL GROUP BY user_src,     catdesc,     action ORDER BY requests DESC)### t WHERE \$filter-var-ONLY AND action!='blocked' GROUP BY catdesc ORDER BY requests DESC
user-drill- down-Top- Allowed-Web- Sites-By- Requests	User drill- down top allowed web sites by requests	webfilter	SELECT hostname, sum(requests) AS requests FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, hostname, action, count(*) AS requests FROM \$log WHERE \$filter-exclude-var AND hostname IS NOT NULL GROUP BY user_src, hostname, action ORDER BY requests DESC)### t

Dataset Name	Description	Log Category	Query Syntax
			WHERE \$filter-var-ONLY AND action!='blocked' GROUP BY hostname ORDER BY requests DESC
user-drill- down-Top- Attacks-By- Name	User drill- down top attacks by name	attack	SELECT attack, sum(attack_count) AS attack_count FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, attack, (CASE WHEN severity IN ('critical',
user-drill- down-Top- Attacks-High- Severity	User drill- down top attacks high severity	attack	SELECT attack, sum(attack_count) AS attack_count FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, attack, (CASE WHEN severity IN ('critical',
user-drill- down-Top- Blocked-Web- Categories	User drill- down top blocked web categories	webfilter	SELECT catdesc, sum(requests) AS requests FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, catdesc, action, count(*) AS requests  FROM \$log WHERE \$filter-exclude-var AND catdesc IS NOT NULL GROUP BY user_src, catdesc, action ORDER BY requests DESC)### t

Dataset Name	Description	Log Category	Query Syntax
			WHERE \$filter-var-ONLY AND action='blocked' GROUP BY catdesc ORDER BY requests DESC
user-drill- down-Top- Blocked-Web- Sites-By- Requests	User drill- down top blocked web sites by requests	webfilter	SELECT hostname, sum(requests) AS requests FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, hostname, action, count(*) AS requests  FROM \$log WHERE \$filter-exclude-var AND hostname IS NOT NULL GROUP BY user_src, hostname, action ORDER BY requests DESC)### t WHERE \$filter-var-ONLY AND action='blocked' GROUP BY hostname ORDER BY requests DESC
user-drill- down-Top- Spam- Sources	User drill- down top spam sources	emailfilter	SELECT mf_sender,     sum(totalnum) AS totalnum FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,
user-drill- down-Top- Virus	User drill- down top virus	virus	SELECT virus, sum(totalnum) AS totalnum FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, virus, count(*) AS totalnum FROM \$log WHERE \$filter-exclude-var AND nullifna(virus) IS NOT NULL GROUP BY user_src, virus ORDER BY totalnum DESC)### t WHERE \$filter-var-ONLY GROUP BY virus ORDER BY totalnum DESC
user-drill- down-Top- Virus-Receiv-	User drill- down top virus receiv-	virus	SELECT receiver, sum(totalnum) AS totalnum FROM ###

Dataset Name	Description	Log Category	Query Syntax
ers-Over- Email	ers over email		(SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,
utm-drilldown- Email-Receiv- ers-Summary	UTM drill- down email receivers summary	Traffic	SELECT sum(requests) AS requests,     sum(bandwidth) AS bandwidth FROM ###  (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     recipient,     count(*) AS  requests,     sum  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,     7,     14) AND recipient IS NOT NULL AND service IN ('pop3',     'POP3',     '110/tcp',     'imap',     'IMAP',     '143/tcp',     'imaps',     'IMAPS',     '993/tcp',     'pop3s',

Dataset Name	Description	Log Category	Query Syntax
			'POP3S',
utm-drilldown- Email- Senders-Sum- mary	down email	Traffic	SELECT sum(requests) AS requests,     sum(bandwidth) AS bandwidth FROM ###  (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     sender,     count(*) AS requests,     sum  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,     7,     14) AND service IN ('smtp',     'SMTP',     '25/tcp',     '587/tcp',     'smtps',     'SMTPS',     '465/tcp') GROUP BY user_src,     sender ORDER BY requests DESC)### t WHERE \$filter-var-ONLY
utm-drilldown- Top-Allowed- Web-Sites-By- Request	UTM drill- down top allowed web sites by request	Traffic	SELECT appid, hostname, sum(requests) AS requests FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, appid, hostname, (CASE WHEN utmaction='blocked' THEN 1 ELSE 0 END) AS blocked,  count(*) AS requests FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
Name	Description	Log Odlegory	(SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,  0 AS appid, hostname, (CASE WHEN action='blocked' THEN 1 ELSE 0 END) AS blocked,  count(*) AS requests FROM \$log-webfilter WHERE \$filter-exclude-var AND (eventtype IS NULL OR logver = 52) AND hostname IS NOT NULL GROUP BY user_src, appid,
			hostname, blocked ORDER BY requests DESC)###) t WHERE \$filter-var-ONLY AND blocked=0 GROUP BY appid, hostname ORDER BY requests DESC
utm-drilldown- Top-App-By- Bandwidth	UTM drill- down top applications by bandwidth usage	Traffic	SELECT appid,     app,     sum(bandwidth) AS bandwidth FROM ###     (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,
utm-drilldown- Top-App-By- Sessions	UTM drill- down top applications by session count	Traffic	SELECT appid, app, sum(sessions) AS sessions FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src, appid, app, sum(coalesce(sent-byte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,

Dataset Name	Description	Log Category	Query Syntax
			count(*) AS sessions FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,
utm-drilldown- Top-Attacks- By-Name	UTM drill- down top attacks by name	attack	SELECT attack, sum(attack_count) AS attack_count FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, attack, count(*) AS attack_count FROM \$log WHERE \$filter-exclude-var AND nullifna(attack) IS NOT NULL GROUP BY user_src, attack ORDER BY attack_count DESC)### t WHERE \$filter-var-ONLY GROUP BY attack ORDER BY attack ORDER BY attack_count DESC
utm-drilldown- Top-Blocked- Web-Sites-By- Request	UTM drill- down top blocked web sites by request	Traffic	SELECT appid, hostname, sum(requests) AS requests FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, appid, hostname, (CASE WHEN utmaction='blocked' THEN 1 ELSE 0 END) AS blocked,  count(*) AS requests FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			0 AS appid, hostname, (CASE WHEN action='blocked' THEN 1 ELSE 0 END) AS blocked,  count(*) AS requests    FROM \$log-webfilter    WHERE \$filter-exclude-var    AND (eventtype IS NULL       OR logver = 52)    AND hostname IS NOT NULL    GROUP BY user_src,    appid,    hostname,    blocked    ORDER BY requests DESC)###) t  WHERE \$filter-var-ONLY    AND blocked=1 GROUP BY appid,    hostname ORDER BY requests DESC
utm-drilldown- Top-Email- Recipients	UTM drill- down top email recip- ients	Traffic	SELECT recipient, sum(bandwidth) AS bandwidth FROM ###  (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src, recipient, count(*) AS requests, sum  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S'
utm-drilldown- Top-Email- Senders	UTM drill- down top email senders	Traffic	SELECT sender, sum(bandwidth) AS bandwidth FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,

Dataset Name	Description	Log Category	Query Syntax
			sender, count(*) AS  requests, sum  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND service IN ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') GROUP BY user_src, sender ORDER BY requests DESC)### t WHERE \$filter-var-ONLY AND sender IS NOT NULL GROUP BY sender HAVING sum(bandwidth)>0
Top-User-	UTM drill- down top user des- tination	Traffic	ORDER BY bandwidth DESC  SELECT appid, app, dstip, sum(sessions) AS sessions, sum(bandwidth) AS bandwidth  FROM ### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src, appid, app, dstip, count(*) AS sessions, sum (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) AND dstip IS NOT NULL AND nullifna(app) IS NOT NULL GROUP BY user_src, appid, app, dstip HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd-byte, 0))>0 ORDER BY bandwidth DESC)### t WHERE \$filter-var-ONLY GROUP BY appid, app, dstip ORDER BY bandwidth DESC

Dataset Name	Description	Log Category	Query Syntax
Top-Users-By- Bandwidth	down top users by bandwidth usage		('srcip')) AS dldn_user,     count(*) AS SESSION,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,     sum(coalesce(sentbyte, 0)) AS traffic_out,     sum(coalesce(rcvdbyte, 0)) AS traffic_in FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
utm-drilldown- Top-Virus	UTM drill- down top virus	Traffic	SELECT virus, sum(totalnum) AS totalnum FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,  virus, count(*) AS total- num FROM \$log-traffic WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4,  7, 14) AND utmevent IS NOT NULL AND virus IS NOT NULL GROUP BY user_src, virus ORDER BY totalnum DESC)### UNION ALL ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_ src,  virus, count(*) AS totalnum FROM \$log-virus WHERE \$filter-exclude-var AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL GROUP BY user_src, virus ORDER BY totalnum DESC)###) t WHERE \$filter-var-ONLY GROUP BY virus ORDER BY totalnum DESC
utm-drilldown- Top-Vul- nerability-By- Name	UTM drill- down top vul- nerability by name	netscan	SELECT vuln, sum(totalnum) AS totalnum FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, vuln, count(*) AS totalnum FROM \$log WHERE \$filter-exclude-var AND action='vuln-detection' AND vuln IS NOT NULL

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY user_src, vuln ORDER BY totalnum DESC)### t WHERE \$filter-var-ONLY GROUP BY vuln ORDER BY totalnum DESC
utm-drilldown- Traffic-Sum- mary	UTM drill- down traffic summary	Traffic	SELECT srcip, srcname FROM (SELECT * FROM (###     (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, srcip, srcname FROM \$log WHERE \$filter-exclude-var AND logid_to_int(logid) NOT IN (4, 7, 14) GROUP BY user_src, srcip, srcname)###) t WHERE \$filter-var-ONLY GROUP BY user_src, srcip, srcname) t GROUP BY srcip, srcname
utm-Top- Allowed-Web- sites-By-Band- width	UTM top allowed web- sites by band- width usage	Traffic	SELECT appid, hostname, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
utm-Top- Allowed-Web- Sites-By- Request	UTM top allowed web sites by request	Traffic	SELECT hostname, catdesc, count(*) AS requests FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			7, 14) AND utmevent IN ('webfilter',
utm-Top- Attack-Dest	UTM top attack dest	attack	SELECT dstip, count(*) AS totalnum FROM \$log WHERE \$filter AND dstip IS NOT NULL GROUP BY dstip ORDER BY totalnum DESC
utm-Top- Attack-Source	UTM top attack source	attack	SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, count(*) AS totalnum FROM \$log WHERE \$filter GROUP BY user_src ORDER BY totalnum DESC
utm-Top- Blocked-Web- Sites-By- Request	UTM top blocked web sites by request	Traffic	SELECT hostname, count(*) AS requests FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND hostname IS NOT NULL AND utmaction='blocked' GROUP BY hostname ORDER BY requests DESC
utm-Top- Blocked-Web- Users	UTM top blocked web users	Traffic	SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr ('srcip`)) AS user_src,     devtype,     srcname,     count(*) AS requests FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			GROUP BY user_src, devtype, srcname ORDER BY requests DESC
utm-Top- Video-Stream- ing-Websites- By-Bandwidth	UTM top video stream- ing websites by bandwidth usage	Traffic	SELECT appid, hostname, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND catdesc IN ('Streaming Media and Download') GROUP BY appid, hostname HAVING sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0))>0 ORDER BY bandwidth DESC
utm-Top-Virus	UTM top virus	Traffic	SELECT virus, (CASE WHEN virus LIKE 'Riskware%' THEN 'Spyware' WHEN virus LIKE 'Adware%' THEN 'Adware' ELSE 'Virus' END) AS malware_type, sum(totalnum) AS totalnum FROM (### (SELECT virus, count(*) AS totalnum FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IS NOT NULL AND virus IS NOT NULL GROUP BY virus ORDER BY totalnum DESC)### UNION ALL ### (SELECT virus, count(*) AS totalnum FROM \$log-virus WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL GROUP BY virus ORDER BY totalnum DESC)###) t GROUP BY virus, malware_type ORDER BY totalnum DESC
utm-Top- Virus-User	UTM top virus user	Traffic	SELECT user_src, sum(totalnum) AS totalnum FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src, count(*) AS total-

Dataset Name	Description	Log Category	Query Syntax
utm-Top-Web- Users-By- Bandwidth	UTM top web users by bandwidth usage	Traffic	num  FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)  AND utmevent IS NOT NULL AND virus IS NOT NULL GROUP BY user_src ORDER BY totalnum DESC)### UNION ALL ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,  count(*) AS totalnum  FROM \$log-virus WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND nullifna(virus) IS NOT NULL GROUP BY user_src ORDER BY totalnum DESC)###) t GROUP BY user_src ORDER BY totalnum DESC)###) t GROUP BY user_src ORDER BY totalnum DESC  SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src, devtype, srcname, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(sentbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN (`webfilter',
utm-Top-Web- Users-By- Request	UTM top web users by request	Traffic	ORDER BY bandwidth DESC  SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src,     devtype,     srcname,     count(*) AS requests  FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,
			7, 14) AND utmevent IN ('webfilter', 'banned-word',

Dataset Name	Description	Log Category	Query Syntax
			'web-content',
vpn-Authentic ated-Logins	- VPN authen- ticated logins	event	sum(total) AS total_num, sum(dura) AS duration  FROM ###  (SELECT t1.f_user AS f_user,
			min(coalesce(sentbyte, 0)) AS sent_beg, max(coalesce(sentbyte, 0)) AS sent_end,
			min(coalesce(rcvdbyte, 0)) AS rcvd_beg, max(coalesce(rcvdbyte, 0)) AS rcvd_end     FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype IN ('ipsec',

Dataset Name	Description	Log Category	Query Syntax
			'ssl-web') AND coalesce(nullifna(`xauthuser`), nullifna(`user`)) IS NOT NULL AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY f_user, tunneltype, tunnelid ORDER BY tunnelid) tt GROUP BY tunnelid HAVING sum(sent_end-sent_beg+r-cvd_end-rcvd_beg)>0) AS t2 ON t1.tunnelid=t2.tunnelid))### t GROUP BY f_user, tunneltype ORDER BY total_num DESC
vpn-Failed- Logins	VPN failed logins	event	SELECT f_user,     tunneltype,     sum(total_num) AS total_num  FROM ###  (SELECT coalesce(nullifna(`xauthuser`), `user`) AS f_user,
vpn-Top-Dial- Up-IPSEC- Tunnels-By- Bandwidth	Top dial up IPsec tunnels by bandwidth usage	event	SELECT vpn_name,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width,     sum(rcvd_end-rcvd_beg) AS traffic_in,     sum(sent_end-sent_beg) AS traffic_out FROM ###  (SELECT vpn_trim(vpntunnel) AS vpn_name,

Dataset Name	Description	Log Category	Query Syntax	
vpn-Top-Dial- Up-IPSEC- Users-By- Bandwidth	Top dial up IPsec users by bandwidth usage	event	AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY vpn_name, tunnelid ORDER BY tunnelid)### t GROUP BY vpn_name HAVING sum(sent_end-sent_beg+rcvend-rcvd_beg)>0 ORDER BY bandwidth DESC  SELECT user_src, remip, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth, sum(rcvd_end-rcvd_beg) AS traffic_in, sum(sent_end-sent_beg) AS traffic_out FROM ### (SELECT coalesce(nullifna('xauthuser'), nullifna('user'), ips ('remip')) AS user_src, remip, tunnelid, min(coalesce(sent) byte, 0)) AS sent_beg,  max(coalesce(sent) max(coalesce(rcvdbyte, 0)) AS rcvd_beg,  max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND tunneliype LIKE 'ipsec%' AND NOT (tunnelip IS NULL OR (tunnelip='0.0.0.0' AND coalesce(logver, 0)!=52)) AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY user_src, remip, tunnelid ORDER BY tunnelid)### t GROUP BY user_src, remip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)>0 ORDER BY bandwidth DESC	str ent-
vpn-Top-Dia- lup-IPSEC- Users-By- Bandwidth- and-Avail	Top dialup IPsec users by bandwidth usage and avail	event	SELECT user_src, remip, sum(traffic_out) AS traffic_out, sum(traffic_in) AS traffic_in, sum(bandwidth) AS bandwidth, sum(uptime) AS uptime FROM (SELECT user_src, remip, tunnelid, devid, vd, sum(sent_end-sent_beg) AS traffic_out, sum(rcvd_end-rcvd_beg) AS traffic_in,	

Dataset Name	Description	Log Category	Query Syntax	
Ivame			sum(sent_end-sent_beg+rcvd_end-rcv width,     sum(duration_end-duration_beg) AS u FROM ###     (SELECT tunnelid,         coalesce(nullifna(`xauthuser`), nullifn (`remip`)) AS user_src,  byte, 0)) AS sent_beg,  max(coalesce(sentbyte, 0)) AS rcvd_beg,  max(coalesce(rcvdbyte, 0)) AS rcvd_end, min(coalesce(rcvdbyte, 0)) AS rcvd_end, min(coalesce(duration, 0)) AS duration_beg	ptime  a(`user`), ipstr  remip, devid, vd, min(coalesce(sent-
			remip ORDER BY bandwidth DESC	
vpn-Top-Dial- Up-IPSEC- Users-By-Dur- ation	Top dial up IPsec users by duration	event		
			max(coalesce(duration,0)) AS dura_end,	
			min(coalesce(sentbyte, 0)) AS sent_beg,	

Dataset Name	Description	Log Category	Query Syntax
			max(coalesce(sentbyte, 0)) AS sent_end, min(coalesce(rcvdbyte, 0)) AS rcvd_beg, max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ipsec%' AND NOT (tunnelip IS NULL OR (tunnelip='0.0.0.0' AND coalesce(logver, 0)!=52)) AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY user_src, tunnelid ORDER BY tunnelid)### t GROUP BY user_src HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)>0 ORDER BY duration DESC
vpn-Top-Dial- Up-VPN- Users-By-Dur- ation	Top dial up VPN users by duration	event	SELECT user_src, tunneltype, sum(dura_end-dura_beg) AS duration, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width FROM ### (SELECT coalesce(nullifna(`xauthuser`), nullifna(`user`), ipstr ('remip`)) AS user_src,  tunneltype, tunnelid, min(coalesce(duration,0)) AS dura_end,  min(coalesce(sentbyte, 0)) AS sent_beg,  max(coalesce(sentbyte, 0)) AS sent_end,  min(coalesce(rcvdbyte, 0)) AS rcvd_beg, max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND (tunneltype LIKE 'ssl%' OR (tunneltype LIKE 'ipsec%' AND NOT (tunnelip IS NULL OR (tunnelip='0.0.0.0' AND coalesce(logver, 0)!=52)))) AND action='tunnel-stats' AND tunnelid IS NOT NULL GROUP BY user_src, tunneltype, tunnelid ORDER BY tunnelid)### t GROUP BY user_src, tunneltype HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)>0

Dataset Name	Description	Log Category	Query Syntax
			ORDER BY duration DESC
vpn-Top-S2S- IPSEC-Tun- nels-By-Band- width-and- Avail	IPsec tunnels	event	SELECT vpntunnel, tunneltype, sum(traffic_out) AS traffic_out, sum(traffic_in) AS traffic_in, sum(bandwidth) AS bandwidth, sum(uptime) AS uptime FROM (SELECT vpntunnel, tunneltype, tunnelid, devid, vd, sum(sent_end-sent_beg) AS traffic_out, sum(rovd_end-rovd_beg) AS traffic_in, sum(sent_end-sent_beg) AS traffic_in, sum(sent_end-sent_beg) AS traffic_in, sum(sent_end-sent_beg) AS traffic_in, sum(sent_end-sent_beg) AS uptime FROM ### (SELECT tunnelid, tunneltype, vpntunnel, devid, vd, min(coalesce(sentbyte, 0)) AS sent_beg, max(coalesce(sentbyte, 0)) AS sent_beg, min(coalesce(rovdbyte, 0)) AS rovd_end, min(coalesce(duration, 0)) AS duration_beg, max (coalesce(duration, 0)) AS duration_beg, max (coalesce(duration, 0)) AS duration_end FROM \$log WHERE \$filter AND subtype='vpn' AND action='tunnel-stats' AND tunneltype LIKE 'ipsecw' AND tunnelip IS NULL OR (tunnelip ='0.0.0.0' AND coalesce(logver, 0)!=52)) AND nullifina( user) IS NULL AND tunnelid SNOT NULL GROUP BY tunnelid, tunneltype, vpntunnel, devid, vd ORDER BY bandwidth DESC) t GROUP BY vpntunnel, tunneltype, tunnelid, devid, vd ORDER BY bandwidth DESC) t GROUP BY vpntunnel,

tunneltype ORDER BY bandwidth DESC  SELECT user_src, remote_ip, sum(traffic_out) AS traffic_out, sum(traffic_in) AS traffic_in, sum(bandwidth) AS bandwidth, sum(uptime) AS uptime FROM (SELECT user_src, remip AS remote_ip,	
remote_ip, sum(traffic_out) AS traffic_out, sum(traffic_in) AS traffic_in, sum(bandwidth) AS bandwidth, sum(uptime) AS uptime FROM (SELECT user_src, remip AS remote_ip,	
tunnelid, devid, vd, sum(sent_end-sent_beg) AS traffic_out, sum(revd_end-revd_beg) AS traffic_in, sum(sent_end-sent_beg+revd_end-revd_beg) width, sum(duration_end-duration_beg) AS uptime FROM ### (SELECT tunnelid, coalesce(nullifina('user'), ipstr('remip')) AS us remip, devid, vd, min(coalesce(sentb sent_beg, max (sentbyte, 0)) AS sent_end, min(coalesce(sentb sent_beg, max (coalesce(revdbyte, 0)) AS revd_beg, max(coalesce(duration, 0)) AS duration_beg, max(coalesce(duration, 0)) AS duration_beg, max(coalesce(duration, 0)) AS duration_end FROM \$log WHERE \$filter AND subtype='ypn' AND action='tunnel-stats' AND tunnelidpe IN ('ssl-tunnel', 'ssl') AND coalesce(nullifina('user'), ipstr('remip')) IS NOT AND tunnelid IS NOT NULL GROUP BY tunnelid, user_src, remip, devid, vd ORDER BY tunnelid)### t GROUP BY user_src, remote_ip, tunnelid, devid, vd ORDER BY bandwidth DESC) t GROUP BY user_src,	user_src, tbyte, 0)) AS nax(coalesce

Dataset Name	Description	Log Category	Query Syntax
			ORDER BY bandwidth DESC
			SELECT user_src,     remote_ip,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width,     sum(rcvd_end-rcvd_beg) AS traffic_in,     sum(sent_end-sent_beg) AS traffic_out FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`remip`)) AS user_src,     remip AS remote_ip,
vpn-Top-SSL- VPN-Tunnel-	Top SSL VPN tunnel		(coalesce(sentbyte, 0)) AS sent_end, min(coalesce(rcvdbyte, 0)) AS rcvd_beg,
Users-By- Bandwidth	users by bandwidth usage	event	max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ssl-tunnel' AND action='tunnel-stats' AND coalesce(nullifna(`user`), ipstr(`remip`)) IS NOT NULL GROUP BY tunnelid, user_src, remip ORDER BY tunnelid)### t GROUP BY user_src, remote_ip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)>0 ORDER BY bandwidth DESC
vpn-Top-SSL- VPN-Users- By-Bandwidth	Top SSL VPN users by bandwidth usage	event	SELECT user_src,     remote_ip,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width,     sum(rcvd_end-rcvd_beg) AS traffic_in,     sum(sent_end-sent_beg) AS traffic_out FROM ###  (SELECT coalesce(nullifna(`user`), ipstr(`remip`)) AS user_src,

Dataset Name	Description	Log Category	Query Syntax
			AND tunnelid IS NOT NULL GROUP BY tunnelid, user_src, remip ORDER BY tunnelid)### t GROUP BY user_src, remote_ip HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)>0 ORDER BY bandwidth DESC  SELECT user_src, tunneltyne
vpn-Top-SSL- VPN-Users- By-Duration	Top SSL VPN users by duration	event	tunneltype, sum(dura_end-dura_beg) AS duration, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width FROM ###  (SELECT coalesce(nullifna(`user'), ipstr(`remip')) AS user_src, tunneltype, min(coalesce(duration, 0)) AS  dura_beg, max(coalesce  (duration, 0)) AS dura_end,  tunnelid, min(coalesce(sentbyte, 0)) AS sent_beg, max(coalesce(sentbyte, 0)) AS rcvd_beg, max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND tunneltype LIKE 'ssl%' AND action='tunnel-stats' AND coalesce(nullifna(`user'), ipstr(`remip')) IS NOT NULL AND tunnelid IS NOT NULL GROUP BY tunnelid, user_src, tunneltype ORDER BY tunnelid)### t GROUP BY user_src, tunneltype HAVING sum(sent_end-sent_beg+rcvd_end-rcvd_beg)>0 ORDER BY duration DESC
vpn-Top-SSL- VPN-Web- Mode-Users- By-Bandwidth	Top SSL VPN web mode users by bandwidth usage	event	SELECT user_src,     remote_ip,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width,     sum(rcvd_end-rcvd_beg) AS traffic_in,     sum(sent_end-sent_beg) AS traffic_out FROM ### (SELECT coalesce(nullifna(`user`), ipstr(`remip`)) AS user_src,     remip AS remote_ip,     tunnelid,     min(coalesce(sentbyte, 0)) AS sent_beg,

Dataset Name	Description	Log Category	Query Syntax
	Description	Log Category	max  (coalesce(sentbyte, 0)) AS sent_end,  min(coalesce(rcvdbyte, 0)) AS rcvd_beg,  max(coalesce(rcvdbyte, 0)) AS rcvd_end  FROM \$log  WHERE \$filter  AND subtype='vpn'  AND tunneltype='ssl-web'  AND action='tunnel-stats'  AND coalesce(nullifna(`user`), ipstr(`remip`)) IS NOT NULL  AND tunnelid IS NOT NULL  GROUP BY tunnelid,  user_src,  remip
			ORDER BY tunnelid)### t GROUP BY user_src, remote_ip HAVING sum(sent_end-sent_beg+rcvd_end- rcvd_beg)>0 ORDER BY bandwidth DESC
vpn-Top-SSL- Web-Users- By-Band- width-and- Avail	Top SSL web users by bandwidth usage and avail	event	SELECT user_src,     remote_ip,     sum(traffic_out) AS traffic_in,     sum(bandwidth) AS bandwidth,     sum(uptime) AS uptime FROM  (SELECT user_src,     remip AS remote_ip,     tunnelid,     devid,     vd,     sum(sent_end-sent_beg) AS traffic_out,     sum(rcvd_end-rcvd_beg) AS traffic_in,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS bandwidth,     sum(duration_end-duration_beg) AS uptime FROM ###  (SELECT tunnelid,     coalesce(nullifna('user'), ipstr('remip')) AS user_src,     remip,     devid,     vd,     min(coalesce(sentbyte, 0)) AS sent_beg,     max(coalesce (sentbyte, 0)) AS sent_end,  min(coalesce(rcvdbyte, 0)) AS rcvd_beg,
			max(coalesce(rcvdbyte, 0)) AS rcvd_end, min(coalesce(duration, 0)) AS duration_beg, max(coalesce(duration, 0)) AS duration_end FROM \$log WHERE \$filter AND subtype='vpn'

Dataset Name	Description	Log Category	Query Syntax
			AND action='tunnel-stats' AND tunneltype='ssl-web' AND coalesce(nullifna(`user`), ipstr(`remip`)) IS NOT NULL AND tunnelid IS NOT NULL GROUP BY tunnelid,
vpn-Top- Static-IPSEC- Tunnels-By- Bandwidth	Top static IPsec tunnels by bandwidth usage	event	SELECT vpn_name,     sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS band- width,     sum(rcvd_end-rcvd_beg) AS traffic_in,     sum(sent_end-sent_beg) AS traffic_out FROM ###  (SELECT vpn_trim(vpntunnel) AS vpn_name,
vpn-Traffic- Usage-Trend- VPN	VPN traffic usage trend	event	SELECT hodex, sum(coalesce(ssl_bandwidth, 0)) AS ssl_bandwidth, sum(coalesce(ipsec_bandwidth, 0)) AS ipsec_bandwidth FROM ### (SELECT coalesce(t1.hodex, t2.hodex) AS hodex, ssl_bandwidth, ipsec_bandwidth

Dataset	Description	Log Category	Query Syntax
Name	Socialition		
			(SELECT hodex, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS ssl_ bandwidth FROM (SELECT \$flex_timescale AS hodex, tunnelid, devid, vd, min(coalesce(sentbyte, 0)) AS sent_beg,
			max(coalesce(sentbyte, 0)) AS sent_end,
			min (coalesce(rcvdbyte, 0)) AS rcvd_beg,
			max(coalesce(rcvdbyte, 0)) AS rcvd_end FROM \$log WHERE \$filter AND subtype='vpn' AND action='tunnel-stats' AND tunnelid IS NOT NULL AND tunneltype LIKE 'ssl%' GROUP BY hodex, tunnelid, devid, vd ORDER BY tunnelid) t_ssl GROUP BY hodex) AS t1 FULL JOIN (SELECT hodex, sum(sent_end-sent_beg+rcvd_end-rcvd_beg) AS ipsec_bandwidth FROM (SELECT \$flex_timescale AS hodex, tunnelid, devid, vd, min(coalesce(sentbyte, 0)) AS sent_beg,
			max(coalesce(sentbyte, 0)) AS sent_end, min
			(coalesce(rcvdbyte, 0)) AS rcvd_beg,  max(coalesce(rcvdbyte, 0)) AS rcvd_end     FROM \$log     WHERE \$filter     AND subtype='vpn'     AND action='tunnel-stats'     AND tunnelid IS NOT NULL     AND tunneltype LIKE 'ipsec%'     GROUP BY hodex,         tunnelid,         devid,         vd     ORDER BY tunnelid) t_ipsec     GROUP BY hodex) AS t2 ON t1.hodex = t2.hodex)### t GROUP BY hodex ORDER BY hodex
vpn-User-	VPN user	event	SELECT hodex,

Dataset Name	Description	Log Category	Query Syntax
Login-history	login history		count(*) AS total_num FROM ###  (SELECT t1.hodex AS hodex FROM (  (SELECT \$flex_timescale AS hodex, tunnelid FROM \$log WHERE \$filter AND subtype='vpn' AND (tunneltype='jssec' OR tunneltype='ssl-web') AND action='tunnel-up' AND coalesce(nullifna('xauthuser'), nullifna('user')) IS NOT NULL GROUP BY hodex, tunnelid ORDER BY hodex DESC) AS t1 INNER JOIN (SELECT tunnelid FROM (SELECT tunnelid, min(coalesce(sentbyte, 0)) AS sent_beg, max(coalesce(sentbyte, 0)) AS sent_beg, min(coalesce(rcvdbyte, 0)) AS rovd_end FROM \$log WHERE \$filter AND subtype='vpn' AND tunnelidype IN ('ipsec',
web-Detailed- Website- Browsing-Log	Web detailed website browsing log	Traffic	SELECT FROM_dtime(dtime) AS TIMESTAMP, catdesc, hostname AS website, action AS status, sum(bandwidth) AS bandwidth FROM (### (SELECT dtime, catdesc, hostname, action, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter AND hostname IS NOT NULL AND logid_to_int(logid) NOT IN (4, 7,

Dataset Name	Description	Log Category	Query Syntax
			14) AND utmevent IN ('webfilter',
webfilter-Cat- egories-By- Bandwidth	Webfilter categories by bandwidth usage	webfilter	SELECT catdesc, sum(bandwidth) AS bandwidth FROM (###  (SELECT catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND catdesc IS NOT NULL GROUP BY catdesc ORDER BY bandwidth DESC)### UNION ALL ### (SELECT catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-webfilter WHERE \$filter

Dataset Name	Description	Log Category	Query Syntax
			AND (eventtype IS NULL OR logver = 52) AND catdesc IS NOT NULL GROUP BY catdesc ORDER BY bandwidth DESC)###) t GROUP BY catdesc ORDER BY bandwidth DESC
webfilter-Top- Allowed-Web- Categories	Webfilter top allowed web categories	webfilter	SELECT catdesc, sum(requests) AS requests FROM (###  (SELECT catdesc, count(*) AS requests FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND catdesc IS NOT NULL AND utmaction!='blocked' GROUP BY catdesc ORDER BY requests DESC)### UNION ALL ### (SELECT catdesc, count(*) AS requests FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND catdesc IS NOT NULL AND action!='blocked' GROUP BY catdesc ORDER BY requests DESC)###) t GROUP BY catdesc ORDER BY requests DESC)###) t GROUP BY catdesc ORDER BY requests DESC)###) t GROUP BY catdesc ORDER BY requests DESC
webfilter-Top- Allowed-Web- Sites-by-Band- width	Webfilter top allowed web sites by band- width usage	webfilter	SELECT DOMAIN, string_agg(DISTINCT catdesc, ', ') AS agg_catdesc, sum(bandwidth) AS bandwidth, sum(traffic_in) AS traffic_in, sum(traffic_out) AS traffic_out FROM (### (SELECT coalesce(nullifna(hostname), ipstr('srcip')) AS DOMAIN, catdesc, sum(coalesce(sentbyte, 0)) +coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			14)  AND utmevent IN ('webfilter',
webfilter-Top- Allowed-Web- Sites-By- Requests	Webfilter top allowed web sites by requests	webfilter	SELECT DOMAIN, string_agg(DISTINCT catdesc, ', ') AS agg_catdesc, sum(requests) AS requests FROM (### (SELECT hostname AS DOMAIN, catdesc, count(*) AS requests FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND hostname IS NOT NULL AND utmaction!='blocked' GROUP BY DOMAIN, catdesc ORDER BY requests DESC)### UNION ALL ### (SELECT hostname AS DOMAIN, catdesc,

Dataset Name	Description	Log Category	Query Syntax
			count(*) AS requests FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND hostname IS NOT NULL AND catdesc IS NOT NULL AND action!='blocked' GROUP BY DOMAIN, catdesc ORDER BY requests DESC)###) t GROUP BY DOMAIN ORDER BY requests DESC
webfilter-Top- Blocked-Web- Categories	Webfilter top blocked web categories	webfilter	SELECT catdesc, sum(requests) AS requests FROM (###  (SELECT catdesc, count(*) AS requests FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND catdesc IS NOT NULL AND utmaction='blocked' GROUP BY catdesc ORDER BY requests DESC)### UNION ALL ### (SELECT catdesc, count(*) AS requests FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND catdesc IS NOT NULL AND action='blocked' GROUP BY catdesc ORDER BY requests DESC)###) t GROUP BY catdesc ORDER BY requests DESC)###) t GROUP BY catdesc ORDER BY requests DESC)###) t GROUP BY catdesc ORDER BY requests DESC
webfilter-Top- Blocked-Web- Sites-By- Requests	Webfilter top blocked web sites by requests	webfilter	SELECT DOMAIN, catdesc, sum(requests) AS requests FROM (### (SELECT hostname AS DOMAIN, catdesc, count(*) AS requests FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter',

Dataset Name	Description	Log Category	Query Syntax
			'banned-word',     'web-content',     'command-block',     'script-filter')  AND hostname IS NOT NULL  AND utmaction='blocked'  GROUP BY DOMAIN,     catdesc  ORDER BY requests DESC)###  UNION ALL ###  (SELECT hostname AS DOMAIN,     catdesc,     count(*) AS requests  FROM \$log-webfilter  WHERE \$filter  AND (eventtype IS NULL     OR logver = 52)  AND hostname IS NOT NULL  AND catdesc IS NOT NULL  AND action='blocked'  GROUP BY DOMAIN,     catdesc  ORDER BY requests DESC)###) t  GROUP BY DOMAIN,     catdesc  ORDER BY requests DESC
webfilter-Top- Search- Phrases	Webfilter top search phrases	webfilter	SELECT keyword, count(*) AS requests FROM \$log WHERE \$filter AND keyword IS NOT NULL GROUP BY keyword ORDER BY requests DESC
webfilter-Top- Video-Stream- ing-Websites- By-Bandwidth	Webfilter top video stream- ing websites by bandwidth usage	webfilter	SELECT DOMAIN, sum(bandwidth) AS bandwidth, sum(traffic_in) AS traffic_in, sum(traffic_out) AS traffic_out FROM (### (SELECT coalesce(nullifna(root_domain(hostname)), 'other') AS DOMAIN, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4,

Dataset Name	Description	Log Category	Query Syntax
			+coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT coalesce(nullifna(root_domain(hostname)), 'other') AS DOMAIN, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth, sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND catdesc IN ('Streaming Media and Download') GROUP BY DOMAIN HAVING sum(coalesce(sentbyte, 0)) +coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC)###) t GROUP BY DOMAIN ORDER BY bandwidth DESC
webfilter-Top- Web-Users- By-Allowed- Requests	Webfilter top web users by allowed requests	webfilter	SELECT user_src, devtype, hostname_mac, sum(requests) AS requests FROM (### (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr (`srcip`)) AS user_src, devtype, coalesce(nullifna(`srcname`), `srcmac`) AS hostname_mac, count(*) AS requests FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) IS NOT NULL AND utmaction!='blocked' GROUP BY user_src, devtype, hostname_mac ORDER BY requests DESC)### UNION ALL ### (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src, '0' AS devtype, ipstr(`srcip`) AS hostname_mac, count(*) AS requests FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND coalesce(nullifna(`user`), ipstr(`srcip`)) IS NOT NULL

Dataset Name	Description	Log Category	Query Syntax
			AND action!='blocked' GROUP BY user_src, devtype, hostname_mac ORDER BY requests DESC)###) t GROUP BY user_src, devtype, hostname_mac ORDER BY requests DESC
			SELECT user_src,     devtype,     hostname_mac,     sum(bandwidth) AS bandwidth,     sum(traffic_in) AS traffic_in,     sum(traffic_out) AS traffic_out FROM (###     (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`),     ipstr(`srcip`)) AS user_src,
webfilter-Top- Web-Users- By-Bandwidth	Webfilter top web users by bandwidth usage	webfilter	sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,  sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4,
			'command-block',     'script-filter')  GROUP BY user_src,     devtype,     hostname_mac HAVING sum(coalesce(sentbyte, 0)) +coalesce(rcvdbyte, 0))>0     ORDER BY bandwidth DESC)###     UNION ALL ###  (SELECT coalesce(nullifna(`user`), ipstr(`srcip`)) AS user_src,
			sum(coalesce(sent-byte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth,
			sum(coalesce(rcvdbyte, 0)) AS traffic_in, sum(coalesce(sentbyte, 0)) AS traffic_out FROM \$log-webfilter
			WHERE \$filter AND (eventtype IS NULL OR logver = 52) GROUP BY user_src,

Dataset Name	Description	Log Category	Query Syntax
			devtype, hostname_mac HAVING sum(coalesce(sentbyte, 0)+co- alesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC)###) t GROUP BY user_src, devtype, hostname_mac ORDER BY bandwidth DESC
			SELECT user_src,     devtype,     hostname_mac,     sum(requests) AS requests FROM (###     (SELECT coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) AS user_src,     devtype,     coalesce(nul- lifna(`srcname`), `srcmac`) AS hostname_mac,
webfilter-Top- Web-Users- By-Blocked- Requests	Webfilter top web users by blocked requests	webfilter	count(*) AS requests FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)  AND utmevent IN ('webfilter',
			name_mac,  requests  FROM \$log-webfilter  WHERE \$filter  AND (eventtype IS NULL  OR logver = 52)  AND coalesce(nullifna(`user`), ipstr(`srcip`)) IS NOT NULL  AND action='blocked'  GROUP BY user_src,  devtype, hostname_mac  ORDER BY requests DESC)###) t  GROUP BY user_src, devtype,

Dataset Name	Description	Log Category	Query Syntax
			ORDER BY requests DESC
webfilter-Web- Activity-Sum- mary-By- Requests	Webfilter web activity summary by requests	webfilter	SELECT hodex, sum(coalesce(allowed_request, 0)) AS allowed_request, sum(coalesce(blocked_request, 0)) AS blocked_request FROM (###  (SELECT coalesce(t1.hodex, t2.hodex) AS hodex, allowed_request, blocked_request FROM  (SELECT \$flex_timescale AS hodex, count(*) AS allowed_request FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN (webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') AND utmaction!='blocked' GROUP BY hodex ORDER BY hodex) AS t1 FULL JOIN  (SELECT \$flex_timescale AS hodex, count(*) AS blocked_request FROM \$log-traffic WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN (webfilter', 'banned-word', 'web-content, 'command-block', 'script-filter') AND utmaction='blocked' GROUP BY hodex ORDER BY hodex) AS t2 ON t1.hodex = t2.hodex)### UNION ALL ###  (SELECT coalesce(t1.hodex, t2.hodex) AS hodex, allowed_request, blocked_request FROM  (SELECT \$flex_timescale AS hodex, count(*) AS allowed_request FROM  (SELECT \$flex_timescale AS hodex, count(*) AS allowed_request FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND action!='blocked' GROUP BY hodex ORDER BY hodex) AS t1 FULL JOIN  (SELECT \$flex_timescale AS hodex, count(*) AS allowed_request FROM \$log-webfilter WHERE \$filter AND (eventtype IS NULL OR logver = 52) AND action!='blocked' GROUP BY hodex ORDER BY hodex) AS t1 FULL JOIN  (SELECT \$flex_timescale AS hodex, count(*) AS blocked_request FROM \$log-webfilter WHERE \$filter FROM \$log-webfilter WHERE \$filter

Dataset Name	Description	Log Category	Query Syntax
			AND (eventtype IS NULL OR logver = 52) AND action='blocked' GROUP BY hodex ORDER BY hodex) AS t2 ON t1.hodex = t2.hodex)###) t GROUP BY hodex ORDER BY hodex
web-Hourly- Category-and- Website-Hits- Action	Web hourly category and website hits action	Traffic	SELECT hod, website, sum(hits) AS hits FROM (### (SELECT \$hour_of_day AS hod, (hostname    ' ('    coalesce ('catdesc', 'Unknown')    ')') AS website, count(*)  AS hits FROM \$log-traffic WHERE \$filter AND hostname IS NOT NULL AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') GROUP BY hod, website ORDER BY hod, hits DESC)### UNION ALL ### (SELECT \$hour_of_day AS hod, (hostname    ' ('    coalesce ('catdesc', 'Unknown')    ')') AS website,  AS hits FROM \$log-webfilter WHERE \$filter AND hostname IS NOT NULL AND (eventtype IS NULL OR logver=52) GROUP BY hod, website ORDER BY hod, hits DESC)###) t GROUP BY hod, website ORDER BY hod, hits DESC)###) t GROUP BY hod, website ORDER BY hod, hits DESC
web-Top-Cat- egory-and- Websites-by- Bandwidth	Web top category and websites by bandwidth usage	Traffic	SELECT website, catdesc, sum(bandwidth) AS bandwidth FROM (### (SELECT hostname AS website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter

Dataset Name	Description	Log Category	Query Syntax
			AND hostname IS NOT NULL AND logid_to_int(logid) NOT IN (4, 7, 14)  AND utmevent IN ('webfilter',
web-Top-Cat- egory-and- Websites-by- Session	Web top category and websites by session	Traffic	SELECT website,     catdesc,     sum(hits) AS hits FROM (###     (SELECT hostname AS website,

Dataset Name	Description	Log Category	Query Syntax
			catdesc ORDER BY hits DESC)###) t GROUP BY website, catdesc ORDER BY hits DESC
web-Top- User-Visted- Websites-by- Bandwidth	Web top user visted web- sites by band- width usage	Traffic	SELECT website, catdesc, sum(bandwidth) AS bandwidth FROM (###  (SELECT hostname AS website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-traffic WHERE \$filter AND hostname IS NOT NULL AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') GROUP BY hostname, catdesc HAVING sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0))>0 ORDER BY bandwidth DESC)### UNION ALL ### (SELECT hostname AS website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log-webfilter WHERE \$filter AND hostname IS NOT NULL AND (eventtype IS NULL OR logver=52) GROUP BY hostname, catdesc ORDER BY bandwidth DESC)###) t GROUP BY website, catdesc ORDER BY bandwidth DESC
web-Top- User-Visted- Websites-by- Session	Web top user visted web- sites by ses- sion	Traffic	SELECT website, catdesc, sum(sessions) AS sessions FROM (### (SELECT hostname AS website, catdesc, count(*) AS sessions FROM \$log-traffic WHERE \$filter AND hostname IS NOT NULL AND logid_to_int(logid) NOT IN (4, 7, 14) AND utmevent IN ('webfilter',

Dataset Name	Description	Log Category	Query Syntax
			'banned-word',
web-Top-Web- site-Sessions- by-Bandwidth	Web top website sessions by bandwidth usage	Traffic	SELECT FROM_dtime(dtime) AS TIMESTAMP, user_src, website, catdesc, cast(sum(dura)/60 AS decimal(18, 2)) AS dura, sum(bandwidth) AS bandwidth FROM ###( SELECT dtime, coalesce(nullifna('user'), nullifna('unauthuser'), ipstr('srcip')) AS user_src, hostname AS website, catdesc, sum(coalesce(duration, 0)) AS dura, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND hostname IS NOT NULL AND logid_to_int(logid) NOT IN (4, 7, 14) AND action IN ('accept', 'close', 'timeout') GROUP BY dtime, user_src, website, catdesc HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))> 0 ORDER BY bandwidth DESC)### t GROUP BY dtime, user_src, website, catdesc ORDER BY bandwidth DESC
	WiFi num dis-	I	SELECT count(DISTINCT srcmac) AS totalnum

Dataset Name	Description	Log Category	Query Syntax	
Distinct-Client	tinct client		FROM ###  (SELECT srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) AS subtotal FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND (srcssid IS NOT NULL OR dstssid IS NOT NULL) AND srcmac IS NOT NULL GROUP BY srcintf, srcssid, osname, osversion, devtype, srcmac ORDER BY subtotal DESC)### t	
wifi-Overall- Traffic	WiFi overall Traffic	Traffic	SELECT sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,	
wifi-Top-AP- By-Bandwidth	Top access point by bandwidth usage	Traffic	SELECT srcintf, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND (srcssid IS NOT NULL OR dstssid IS NOT NULL) GROUP BY srcintf HAVING sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0))>0 ORDER BY bandwidth DESC	
wifi-Top-AP- By-Client	Top access point by client	Traffic	SELECT srcintf, count(DISTINCT srcmac) AS totalnum FROM ### (SELECT srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) AS subtotal FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,	

Dataset Name	Description	Log Category	Query Syntax	
			7, 14) AND (srcssid IS NOT NULL OR dstssid IS NOT NULL) AND srcmac IS NOT NULL GROUP BY srcintf, srcssid, osname, osversion, devtype, srcmac ORDER BY subtotal DESC)### t GROUP BY srcintf ORDER BY totalnum DESC	
wifi-Top-App- By-Bandwidth	Top WiFi applications by bandwidth usage	Traffic	SELECT appid, app, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND (srcssid IS NOT NULL OR dstssid IS NOT NULL) AND nullifna(app) IS NOT NULL GROUP BY appid, app HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvd-byte, 0))>0 ORDER BY bandwidth DESC	
wifi-Top-Cli- ent-By-Band- width	Top WiFi cli- ent by band- width usage	Traffic	SELECT (coalesce(srcname, srcmac, 'unknown')    ' ('    coalesce (devtype, 'unknown')    ', '    coalesce(osname, ")    (CASE WHEN osversion IS NULL THEN "ELSE'   osversion END)    ')') AS client, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14)  AND (srcssid IS NOT NULL OR dstssid IS NOT NULL) GROUP BY client HAVING sum(coalesce(sentbyte, 0)+coalesce (rcvdbyte, 0))>0 ORDER BY bandwidth DESC	
wifi-Top- Device-By- Bandwidth	Top WiFi device by bandwidth usage	Traffic	SELECT devtype, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,	

Dataset Name	Description	Log Category	Query Syntax	
			GROUP BY devtype HAVING sum(coalesce(sentbyte, 0)+co- alesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC	
wifi-Top- Device-By-Cli- ent	Top WiFi device by cli- ent	Traffic	SELECT devtype,     count(DISTINCT srcmac) AS totalnum FROM ###  (SELECT srcintf,     srcssid,     osname,     osversion,     devtype,     srcmac,     count(*) AS subtotal FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4,	
wifi-Top-OS- By-Bandwidth	Top WiFi os by bandwidth usage	Traffic	SELECT (coalesce(osname, 'unknown')    ' '    coalesce(osversion, ")) AS os,     sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter    AND logid_to_int(logid) NOT IN (4,	
wifi-Top-OS- By-WiFi-Client	Top WiFi os by WiFi client	Traffic	SELECT (coalesce(osname, 'unknown')    ' '    coalesce(osversion, ")) AS os,	

Dataset Name	Description	Log Category	Query Syntax	
			WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND (srcssid IS NOT NULL OR dstssid IS NOT NULL) AND srcmac IS NOT NULL GROUP BY srcintf, srcssid, osname, osversion, devtype, srcmac ORDER BY subtotal DESC)### t GROUP BY os ORDER BY totalnum DESC	
wifi-Top-SSID- By-Bandwidth	Top SSIDs by bandwidth usage	Traffic	SELECT srcssid, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) AS bandwidth FROM \$log WHERE \$filter AND logid_to_int(logid) NOT IN (4, 7, 14) AND srcssid IS NOT NULL GROUP BY srcssid HAVING sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 ORDER BY bandwidth DESC	
wifi-Top-SSID- By-Client	Top SSIDs by client	Traffic		

## Macro Reference List

The following table lists the available predefined macros that can be used in a report layout to display the log data as text (XML format) dynamically.

Macro Name	Description	Dataset Used	Log Category
Application Category with Highest Session Count	Application category with the highest session count	App-Sessions-By-Cat- egory	Traffic
Application with Highest Bandwidth	Application with the highest bandwidth usage	Top-App-By-Bandwidth	Traffic
Application with Highest Session Count	Applications with the highest session count	Top-App-By-Sessions	Traffic
Attack with Highest Session Count	Attack with highest session count	Utm-Top-Attack-Source	Attack
Botnet with Highest Session Count	Botnet with the highest session count	Detected-Botnet	Traffic
Destination with Highest Bandwidth	Destination with the highest bandwidth usage	Top-Destinations-By- Bandwidth	Traffic
Destination with Highest Session Count	Destination with the highest session count	Top-Destinations-By-Sessions	Traffic
Highest Bandwidth Consumed (Application) Category	Highest bandwidth consumed by application category	App-Risk-App-Usage-By- Category	Traffic
Highest Bandwidth Consumed (Application)	Highest bandwidth consumed by application	Top-App-By-Bandwidth	Traffic
Highest Bandwidth Consumed (Destination)	Highest bandwidth consumed by destination	Top-Destinations-By- Bandwidth	Traffic
Highest Bandwidth Consumed (P2P Application)	Highest bandwidth consumed by P2P application	Top-P2P-App-By-Band- width	Traffic
Highest Bandwidth Consumed (Source)	Highest bandwidth consumed by source	Top-Users-By-Bandwidth	Traffic
Highest Bandwidth Consumed () Web Category)	Highest bandwidth consumed by website category	Top-Web-Category-by- Bandwidth	Web Filter
Highest Bandwidth Consumed (Website)	Highest bandwidth consumed by website	Top-Web-Sites-by-Band-width	Web Filter
Highest Risk Application with Highest Bandwidth	Highest risk application with the highest bandwidth usage	High-Risk-Application- By-Bandwidth	Traffic
Highest Risk Application with Highest Session Count	Highest risk application with the highest session count	High-Risk-Application- By-Sessions	Traffic
Highest Session Count by Application Category	Highest session count by application category	App-Sessions-By-Cat- egory	Traffic
Highest Session Count by Application	Highest session count by application	Top-App-By-Sessions	Traffic
Highest Session Count by Attack	Highest session count by attack	Utm-Top-Attack-Source	Attack
Highest Session Count by Botnet	Highest session count by botnet	Detected-Botnet	Traffic
Highest Session Count by Destination	Highest session count by destination	Top-Destinations-By-Sessions	Traffic
Highest Session Count by Highest Severity Attack	Highest session count by highest severity attack	Threat-Attacks-By-Sever-ity	Attack

Macro Name	Description	Dataset Used	Log Category
Highest Session Count by P2P Application	Highest session count by P2P application	Top-P2P-App-By-Ses- sions	Traffic
Highest Session Count by Source	Highest session count by source	Top-User-Source-By-Ses- sions	Traffic
Highest Session Count by Virus	Highest session count by virus	Utm-Top-Virus	Traffic
Highest Session Count by Web Category	Highest session count by website category	Top-Web-Category-by- Sessions	Web Filter
Highest Session Count by Website	Highest session count by website	Top-Web-Sites-by-Ses- sions	Web Filter
Highest Severity Attack with Highest Session Count	Highest severity attack with the highest session count	Threat-Attacks-By-Sever-ity	Attack
P2P Application with Highest Bandwidth	P2P applications with the highest bandwidth usage	Top-P2P-App-By-Band- width	Traffic
P2P Application with Highest Session Count	P2P applications with the highest session count	Top-P2P-App-By-Ses- sions	Traffic
Source with Highest Bandwidth	Source with the highest bandwidth usage	Top-Users-By-Bandwidth	Traffic
Source with Highest Session Count	Source with the highest session count	Top-User-Source-By-Ses- sions	Traffic
Total Number of Attacks	Total number of attacks detected	Total-Attack-Source	Attack
Total Number of Botnet Events	Total number of botnet events	Total-Number-of-Botnet- Events	Traffic
Total Number of Viruses	Total number of viruses detected	Total-Number-of-Viruses	Traffic
User Details	User details of traffic	Traffic-User-Detail	Traffic
Virus with Highest Session Count	Virus with the highest session count	Utm-Top-Virus	Traffic
Web Category with Highest Bandwidth	Web filtering category with the highest bandwidth usage	Top-Web-Category-by- Bandwidth	Web Filter
Web Category with Highest Session Count	Web filtering category with the highest session count	Top-Web-Category-by- Sessions	Web Filter
Website with Highest Bandwidth	Website with the highest bandwidth usage	Top-Web-Sites-by-Band- width	Web Filter
Website with Highest Session Count	Website with the highest session count	Top-Web-Sites-by-Ses- sions	Web Filter