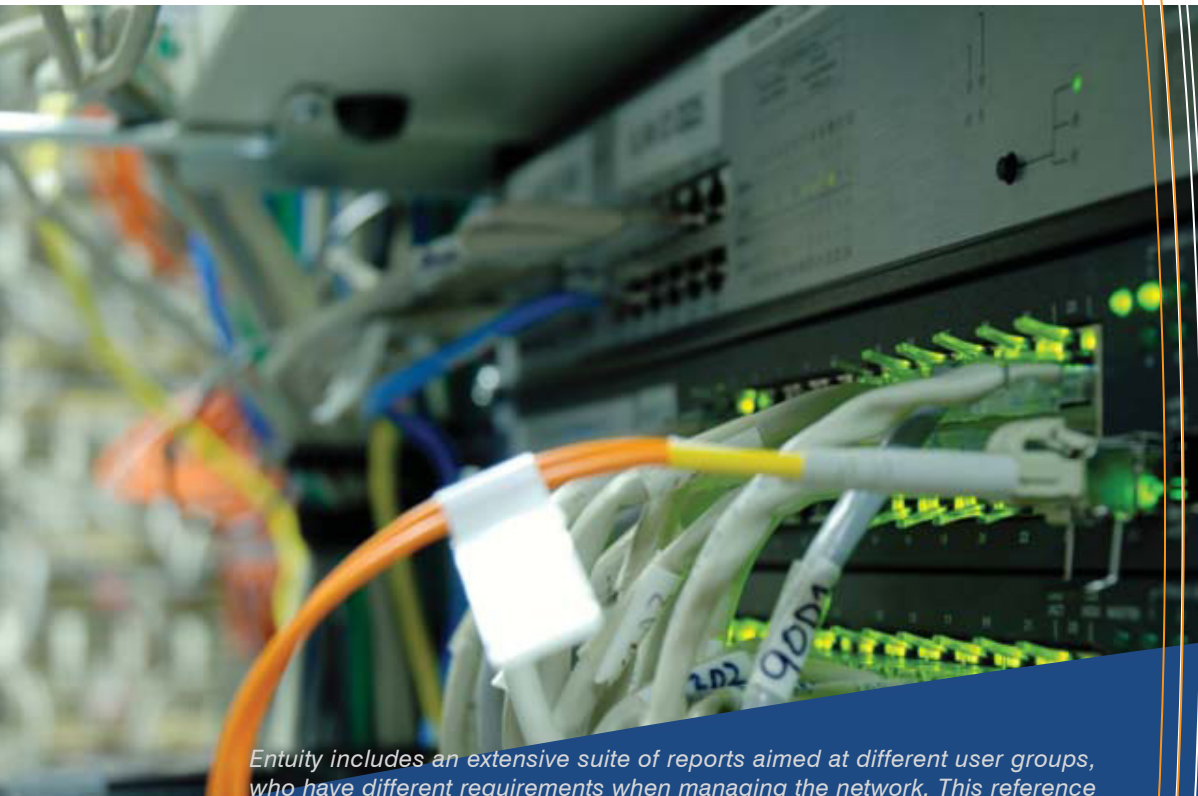




Entuity[®] 16.5

Entuity Reports Reference Manual



Entuity includes an extensive suite of reports aimed at different user groups, who have different requirements when managing the network. This reference manual provides a listing and description of reports shipped with Entuity, including configuration options.

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1 Reports Reference

Welcome to the Reports Reference Manual which details every report shipped with Entuity. Reports provide technical and business users with modern looking reports that are easy to configure, schedule, use and understand. You can interpret and leverage technical data that is captured and processed by Entuity.

The section on each report includes:

- An example report.
- A brief overview of the report's purpose.
- Report configuration options.
- Report content.

The Reports User Guide explains how use the reports, for example how to run reports, configure new ones, set schedules, save to different formats.

Access the Reports Repository

To access reports:

- 1) From the menu bar click **Reports**.

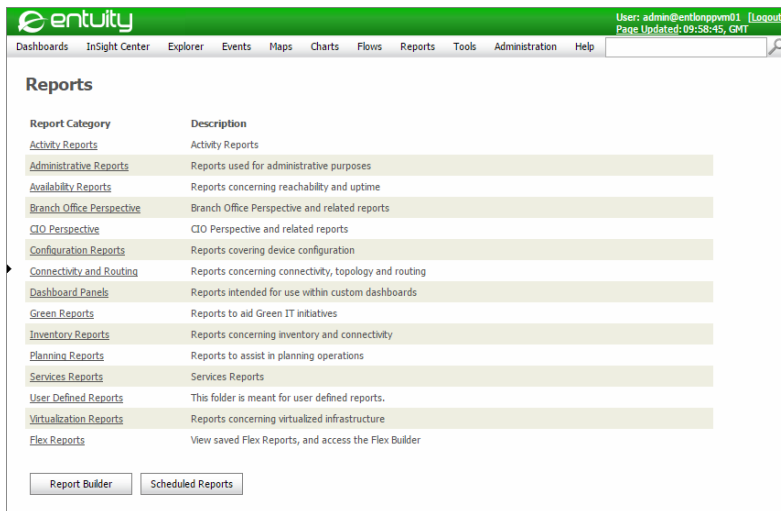


Figure 1 Reports Home Page

2 Activity Reports

These reports allow you to monitor device and port activity, and port error rates.

Running Activity Reports

You can run Activity reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports home page.
- 2) Click **Activity Reports**. Entuity displays the list of activity reports.

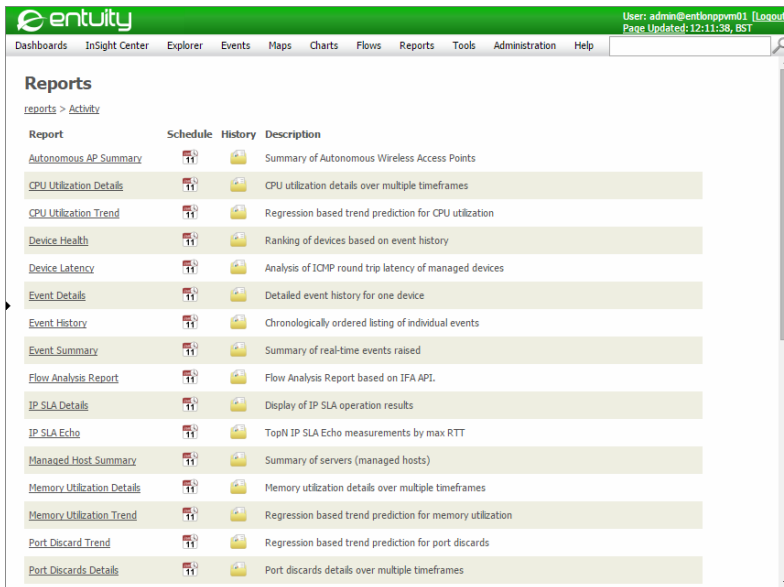


Figure 2 Activity Reports

Event Classes in Activity Reports

The Device Health and Event Details reports both group event types into event classes to provide a summary of the type of events raised against a managed object. For the:

- Device Health report you can filter and sort report content by Event Class.
- Event Details report you can filter report content by Event Class.

Event Class	Event Name
Port status	Port Link Down
	Port Link Up
	Port Unavailable to SNMP Poll
	Port Available to SNMP Poll
Port quality	Port Inbound Fault High (Packet Corruption)
	Port Inbound Fault High Cleared (No Packet Corruption)
	Port Outbound Fault High (Transmit Errors)
	Port Outbound Fault High Cleared (No Transmit Errors)
	Port Inbound Discards High (Device Congestion)
	Port Inbound Discards High Cleared (No Device Congestion)
	Port Outbound Discards High (Port Congestion)
	Port Outbound Discards High Cleared (No Port Congestion)
	Port Utilization High
	Port Utilization High Cleared
	Port Utilization Low
	Port Utilization Low Cleared
	Port Utilization Increased
	Port Utilization Decreased
Module status	Module Status OK
	Module Status 'Unknown'
	Module Minor Fault
	Module Major Fault
	Module Down
SNMP polling	SNMP Agent Not Responding
	SNMP Agent Responding
Reboot	Device Cold Reboot
	Device Warm Reboot
	Device Reboot Detected
Chassis/PSU	Chassis Fan OK
	Chassis Fan Status Unknown
	Chassis Fan Minor Fault
	Chassis Fan Major Fault
	Chassis Minor Alarm
	Chassis Minor Alarm Cleared

Table 1 Event Classes in Activity Reports

Event Class	Event Name
	Chassis Major Alarm
	Chassis Major Alarm Cleared
	Chassis Temperature Alarm
	Chassis Temperature Alarm Cleared
	Chassis Temperature Critical Alarm
Power Supply OK	Power Supply Minor Fault
	Power Supply Major Fault
	Power Supply Unknown Fault
Resources	High Processor Utilization
	High Processor Utilization Cleared
	Routing Low Processor Total Memory
	Routing Low Processor Total Memory Cleared
	Routing Low Processor Contiguous Memory
	Routing Low Processor Contiguous Memory Cleared
	Routing Low I/O Total Memory
	Routing Low I/O Total Memory Cleared
	Routing Low I/O Contiguous Memory
	Routing Low I/O Contiguous Memory Cleared
	Routing ICMP High TTL Exceeds
	Routing ICMP High TTL Exceeds Cleared
	Routing High No Routes To IP Destination
	Routing High No Routes To IP Destination Cleared
	Routing ICMP High Redirects
	Routing ICMP High Redirects Cleared
	Backplane System Bus High Utilization
	Backplane System Bus High Utilization Cleared
	Backplane Bus A High Utilization
	Backplane Bus A High Utilization Cleared
	Backplane Bus B High Utilization
	Backplane Bus B High Utilization Cleared
	Backplane Bus C High Utilization
Backplane Bus C High Utilization Cleared	
Outage	Network Outage
	Network Outage Cleared
Route peering	BGP Peer Not Established

Table 1 Event Classes in Activity Reports

Event Class	Event Name
	BGP Peer Established
	BGP Peer Disappeared
	BGP Peer Newly Discovered
	BGP Peer Briefly Not Established
	BGP Peer Briefly Established
	EIGRP Peer Disappeared
	EIGRP Peer Newly Discovered
	EIGRP Peer Briefly Not Established
	OSPF Peer Not Established
	OSPF Peer Established
	OSPF Peer Disappeared
	OSPF Peer Newly Discovered
	OSPF Peer Briefly Not Established

Table 1 Event Classes in Activity Reports

Autonomous AP Summary Report

Entuity Report



Autonomous Wireless Access Point Summary

Description: Summary of wireless access points

View: Regional

Devices: 1

Over the period 10:00 on Fri Nov 20 2009 - 10:00 on Sat Nov 21 2009

No prime time is set for this report

Printed on: 21 Nov 2009 10:41:50 GMT

Model	Manufacturer	Count
C1130	cisco	1

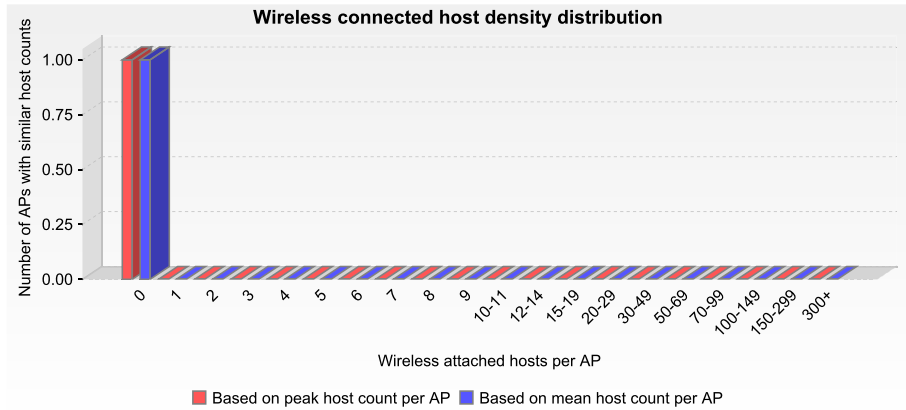
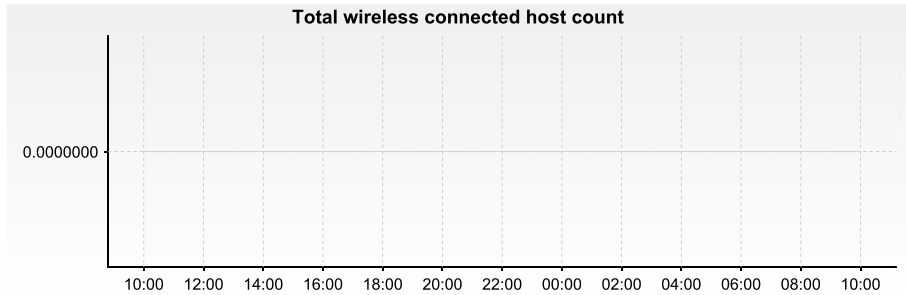


Figure 3 Autonomous AP Summary Report

Autonomous AP Summary Report Overview

Entuity Wireless Autonomous Access Point Summary is useful for monitoring the activity of wireless access points, charting the utilization of your network and identifying where your current resource distribution should be amended to meet the current demands placed upon your infrastructure.

Autonomous AP Summary Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device, or All Devices , to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 2 Autonomous AP Summary Report Options

Autonomous AP Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Routing Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Devices</i>	The number of devices included to the report.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 3 Autonomous AP Summary Report Header

Autonomous AP Summary Report Details

This report includes a:

- Table listing the number of each AP model.
- Chart graphing total number of wireless connected hosts for each Entuity poll during the reporting period.

- Chart graphing wireless connected host density as measured by mean average and peak number of AP hosts during the reporting period.
- Table detailing each Autonomous AP.

Name	Description
<i>sysName</i>	Device system name or where not available the IP address.
<i>Location</i>	Location, or where not available it is left blank.
<i>Manufacturer</i>	Device manufacturer.
<i>Serial Number</i>	Device serial number.
<i>Polling status</i>	Status of Entuity SNMP polling of the device, i.e. Polling, Non-Polling .
<i>System descr</i>	System description, which for a Cisco device is a parsed sysDescr with model, version and serial number.
<i>Mean AP Host Count</i>	Mean average number of AP hosts during the reporting period.
<i>Maximum Antenna Host Count</i>	Maximum number of antenna hosts during the reporting period.
<i>Maximum AP Host Count</i>	Maximum number of AP hosts during the reporting period.
<i>Anrenna Count</i>	Number of antennas on the AP.

Table 4 Autonomous AP Summary

CPU Utilization Details

Entuity Report CPU Utilization Details



Description: CPU utilization percentage details over multiple timeframes
View: My Network (admin)
Device: stack3750

Printed on: 25 Sep 2015 12:40:25 BST

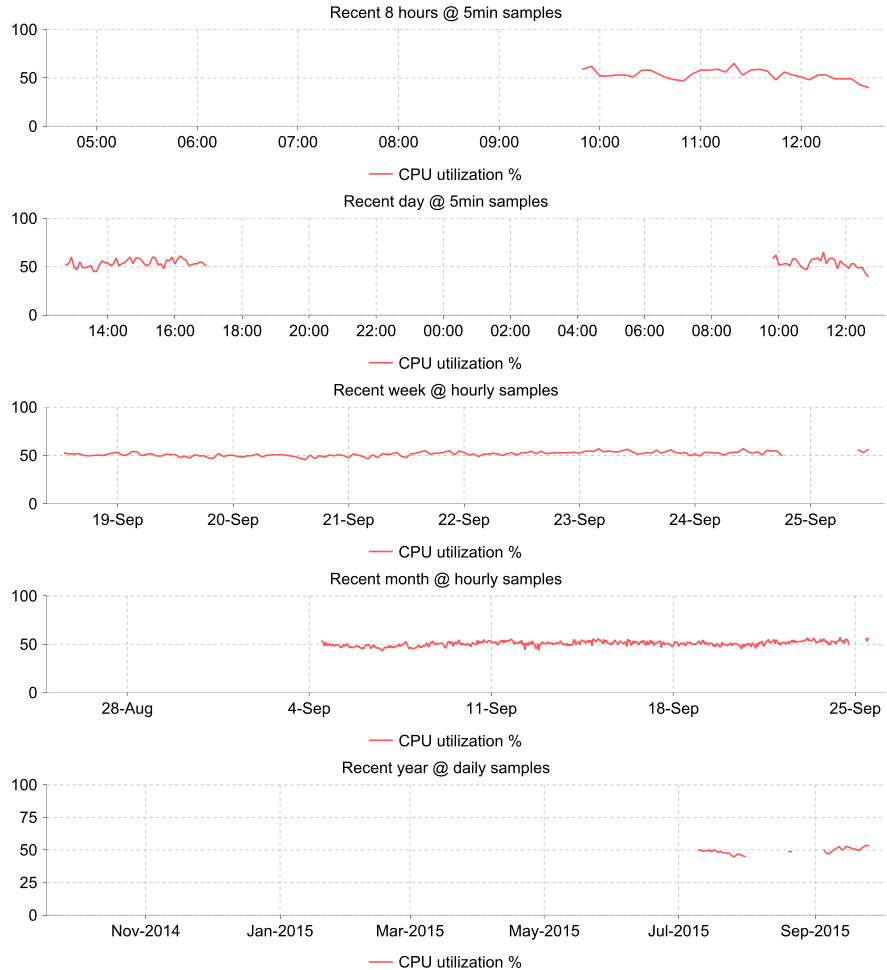


Figure 4 CPU Utilization Details Report

CPU Utilization Details Report Overview

This report provides five charts showing CPU utilization for the specified device.

CPU Utilization Details Report Options

Completing the Report Options allows you to select the device against which you want to run the CPU Utilization Details report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.

Table 5 CPU Utilization Details Report Options

CPU Utilization Details Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. CPU Utilization Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	View against which the report is run.
<i>Device</i>	Device against which the report is run.

Table 6 CPU Utilization Details Report Header

CPU Utilization Report Details

This report provides charts showing CPU utilization for the specified device over five different reporting periods. These report periods start from when the report is run, and are specifically over the previous:

- eight hours, charting the polled five minute data samples
- twenty-four hours, charting the polled five minute data samples
- seven days, charting hourly rolled up data samples
- thirty days, charting hourly rolled up data samples
- year, charting daily rolled up data samples.

CPU Utilization Trend Report

Entuity Report



CPU Utilization Trend

Description: Regression based trend prediction for CPU utilization
View: My Network (admin)
Over the period 00:00 on Sun Jul 26 2015 - 00:00 on Sun Sep 20 2015
No prime time is set for this report
Device name: top2960

Printed on: 25 Sep 2015 13:14:48 BST

Device Serial Number: FOC1030Z9J1
Inbound 6 month prediction: 103.4%
Inbound 12 month prediction: 161.8%

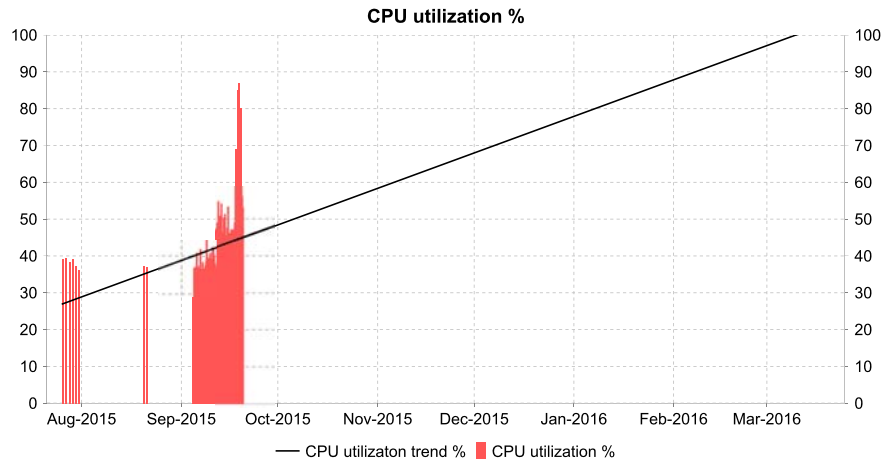


Figure 5 CPU Utilization Trend Report

CPU Utilization Trend Report Overview

This report graphs predictions for the next six months of CPU utilization. Predictions are derived from applying regression analysis to the device's historical CPU utilization data, by default for the last eight weeks, although you can configure it.

This report can be called:

- By clicking **Reports > Activity Reports** and then clicking CPU Utilization Details report. You must then complete the report options to set the device against which you want to run the report.
- From the Device CPU Capacity Planning Trend report by clicking on a device in that report. Entuity runs the CPU Utilization Details report using that device and the trend report Report Options.

CPU Utilization Trend Report Options

Completing the Report Options allows you to select the device against which you want to run the CPU Utilization Trend report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.
<i>Report Period</i>	Period of historical utilization data Entuity uses to generate the utilization trends. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. previous eight weeks. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 7 CPU Utilization Trend Report Options

CPU Utilization Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. CPU Utilization Trend.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	The the period over which the sample data was collected by Entuity. This sample data is used to calculate the trend in CPU utilization for the next six months.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>Device Name</i>	Device against which the report was run.

Table 8 CPU Utilization Trend Report Header

CPU Utilization Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Device Serial Number</i>	Serial number of the device.
<i>6 month prediction</i>	Predicted utilization of the CPU, in six months time, as a percentage of the referenced total CPU resource.
<i>12 month prediction</i>	Predicted utilization of the CPU, in twelve months time, as a percentage of the referenced total CPU resource.
<i>CPU utilization trend %</i>	Graphs predicted utilization of the CPU, over the next six months, as a percentage of the referenced total CPU resource.
<i>CPU utilization %</i>	Recorded CPU utilization of the device.

Table 9 CPU Utilization Trend Details

Device Health Report

Entuity Report



Device Health Summary

Printed on: 5 May 2011 22:18:45 BST
 Description: Devices ranked by logged events
 View: Regional
 TopN: 40 (55 devices had included events and/or reachability outages)
 Sort by: Total events
 Over the period 22:18 on Wed May 04 2011 - 22:18 on Thu May 05 2011

Device name	Total event count	Reachability %	Port status	Port quality	Module status	SNMP polling	Reboot	Chassis & PSU	Resources	Outages	Route peering
10.66.13.22	2732	100	.	2049	.	.	.	406	.	.	.
10.66.13.25	2582	100	.	1130	.	.	.	1175	.	.	.
10.66.13.27	2507	100	.	1061	.	.	.	1169	.	.	.
10.66.100.19	871	100	.	853	.	.	.	.	.	.	.
trapeze.entuity.lab	867	100	.	.	.	2	.	.	64	.	.
r1603	531	100	.	.	.	442	.	.	49	.	.
ciscomcs7845h.vendor.entuity.lab	478	100	.	.	.	478	.	.	.	.	.
lonsw03.entuity.local	450	100	.	14	.	436	.	.	.	.	.
lonsw01.entuity.local	450	100	.	7	.	443	.	.	.	.	.
bgp.bvt.entuity.lab	385	100	.	384	.	.	.	.	.	.	.
bottom3550	298	100	.	.	.	.	.	.	.	.	.
eigrp.bvt.entuity.lab	232	100	.	97	.	.	.	.	52	.	5
nokia-fw.bvt.entuity.lab	162	100	.	47	.	4	.	.	110	.	.
bottom2960.entuity.local	158	100	.	.	.	158	.	.	.	.	.
aruba2400.entuity.lab	146	100	.	140	.	6	.	.	.	.	.
c1000.nexus.entuity.lab	133	100	.	12	.	12	.	.	109	.	.
lonsw02.entuity.local	103	100	.	1	.	102	.	.	.	.	.
c3845.vendor.entuity.lab	90	100	.	20	.	.	.	.	70	.	.
eyepoller.bvt.entuity.lab	89	100	.	84	.	4	.	.	.	.	.
lonsw05.entuity.local	87	100	.	.	.	.	.	.	.	.	.
172.16.1.7	70	7.24	.	.	.	.	.	.	.	62	.
c2900.entuity.local	68	100	.	10	.	58	.	.	.	.	.
sky	56	100	.	14	.	.	.	.	.	.	.
eye2009-lin	56	96.38	.	.	.	44	1	.	8	2	.
c7000.nexus.entuity.lab	56	100	.	52	.	4	.	.	.	.	.
c5000.nexus.entuity.lab	52	100	.	4	.	4	.	.	44	.	.
bmc2010-lin	46	96.38	.	.	.	38	1	.	4	2	.
10.66.100.16	45	100	.	40	.	4	.	.	.	.	.
ospf.bvt.entuity.lab	44	100	.	32	.	12	.	.	.	.	.
sydney-router.testnet	43	100	.	.	.	.	.	.	.	.	.
eye2010-lin	38	96.38	.	.	.	32	1	.	2	2	.
lonsw04.entuity.local	33	100	.	.	.	.	.	.	.	.	.

Figure 6 Device Health Report

Device Health Report Overview

This report allows for the analysis of device health against a configurable set of event types. For each device this report lists the number of each event type, each number provides a link to and provides the context for the Event Details report.

Device Health Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort by</i>	Select the event class on which to sort devices: <ul style="list-style-type: none"> <input type="checkbox"/> Device Name <input type="checkbox"/> Total events <input type="checkbox"/> Port Status <input type="checkbox"/> Port Quality <input type="checkbox"/> All Port Events <input type="checkbox"/> Module Status <input type="checkbox"/> SNMP Polling <input type="checkbox"/> Reboot <input type="checkbox"/> Chassis and PSU <input type="checkbox"/> Resources <input type="checkbox"/> Outage <input type="checkbox"/> Route Peering. For details on event classes see <i>Event Classes in Activity Reports</i> .
<i>Maximum displayed devices</i>	Number of devices included to the report.

Table 10 Device Health Report Options

Name	Description
Include ...	Select the event class the report details when reporting device health: <ul style="list-style-type: none"> <input type="checkbox"/> port status events <input type="checkbox"/> port quality events <input type="checkbox"/> module status events <input type="checkbox"/> SNMP polling events <input type="checkbox"/> device reboot events <input type="checkbox"/> chassis and PSU events <input type="checkbox"/> device resource events <input type="checkbox"/> outage events <input type="checkbox"/> route peering change events. For details on event classes see <i>Event Classes in Activity Reports</i> .
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> <input type="checkbox"/> Recent, you specify time period in relation to the time the report is run, e.g. twenty-four hours before the report time. <input type="checkbox"/> Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 10 Device Health Report Options

Device Health Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Health.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>TopN</i>	Set number of maximum devices and within brackets the number of devices within the report.
<i>Sort by</i>	Attribute on which the report content is sorted.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 11 Device Health Report Header

Device Health Report Details

Name	Description
<i>Device name</i>	Identifier of the device, e.g. host name or IP address.
<i>Total Event count</i>	Total number of events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's events.
<i>Reachability</i>	Indicates the amount of time the device's management IP address was reachable by ICMP ping as a percentage of the reporting period.
<i>Port status</i>	Number of port status events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's port status events.
<i>Port quality</i>	Number of port quality events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's port status events.
<i>Module status</i>	Number of port status events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's port quality events.
<i>SNMP polling</i>	Number of SNMP polling events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's SNMP polling events.
<i>Reboot</i>	Number of reboot events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's reboot events.
<i>Chassis & PSU</i>	Number of chassis and PSU events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's chassis and PSU events.
<i>Resources</i>	Number of resource events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's resource events.
<i>Outages</i>	Number of outage events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's outage events.
<i>Route peering</i>	Number of route peering events raised against the device in the reporting period. This total is also a hyperlink, which opens the Event Details report and displays all of the device's route peering events.

Table 12 Device Health Details

Device Latency Report

Entuity Report

Device Latency



Printed on: 21 Nov 2009 12:27:02 GMT

Description: ICMP round trip latency between the Entuity server and managed devices sorted by highest mean

View: Regional

Over the period 12:00 on Fri Nov 20 2009 - 12:00 on Sat Nov 21 2009

No prime time is set for this report

Device name and IP address	Location	Latency mean/max (ms)	Latency threshold exceeds mean %	Latency threshold exceeds max %
10.44.1.9		602 / 860	0.0	0.0
nysw4003 (192.168.3.33)	Comms Rm., Wiring Closet, 8 West 38th St. New York, NY 10018	325 / 1154	0.0	0.0
192.168.3.70		307 / 1143	0.0	0.0
nysw01 (192.168.3.34)		306 / 1109	0.0	0.0
condor (192.168.3.67)	"System administrators office"	303 / 1103	0.0	0.0
sunshower (10.44.1.71)	Renato's Desk	152 / 408	0.0	0.0
s1912 (10.44.1.43)	The fridge (brrrr...)	123 / 415	0.0	0.0
c2821 (10.44.1.58)		122 / 400	0.0	0.0
support (10.44.2.102)		122 / 435	0.0	0.0
mpb13419 (10.44.1.254)		121 / 423	0.0	0.0
10.44.1.9		495 / 659	0.0	0.0
DELL31F6C2 (172.16.1.140)		105 / 216	0.0	0.0
c2503 (192.168.242.123)	Entuity Test Room	25 / 261	0.0	0.0
s1912 (10.44.1.43)	The fridge (brrrr...)	6 / 171	0.0	0.0
r801 (192.168.244.1)	Entuity Test Room	6 / 238	0.0	0.0
lonsw01 (10.44.1.5)		5 / 76	0.0	0.0
lonsw02 (10.44.1.6)	Development cabinet	5 / 70	0.0	0.0
c2821 (10.44.1.58)		5 / 78	0.0	0.0
lonsw03 (10.44.1.7)		5 / 77	0.0	0.0
sunshower (10.44.1.71)	Renato's Desk	4 / 102	0.0	0.0

Figure 7 Device Latency Report

Device Latency Report Overview

This report allows for the analysis of ICMP round trip latency of managed devices. It includes a summary table of the selected devices, sorted by the hourly mean latency value.

Device Latency Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>TopN</i>	Number of devices included to the report.

Table 13 Device Latency Report Options

Name	Description
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 13 Device Latency Report Options

Device Latency Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Latency.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 14 Device Latency Report Header

Device Latency Report Details

Name	Description
<i>Device name and IP address</i>	Identifier of the device, e.g. host name or IP address and the device IP address Entuity uses to manage the device.
<i>Location</i>	a text description of the physical location of the device that is contained on the device, e.g. Development Cabinet.
<i>Latency mean/max (ms)</i>	Hourly mean average and maximum of device latency as measured by Availability Monitor using ICMP Ping requests.
<i>Latency threshold exceeds mean %</i>	Daily mean average of hourly device latency percentage exceeds as measured by Availability Monitor using ICMP Ping requests.
<i>Latency threshold exceeds max %</i>	Daily maximum of hourly device latency percentage exceeds as measured by Availability Monitor using ICMP Ping requests.

Table 15 Device Latency Details

Event Details Report

Entuity Report

Event Details



Printed on: 23 May 2013 20:26:32 BST
 Description: Chronologically ordered listing of individual events
 View: My Network
 Device: top2960
 Event class: all
 TopN: 1000 (19 events matched filters)
 Over the period 17:00 on Thu May 23 2013 - 20:00 on Thu May 23 2013

Sev	Event type	Source	Time	Incidents	Details
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 17:06	--	inFault=2.04% thresh=1% (align 0% crc 100% abort 0%) inFault=1/49 packets in 299 sec
1	Port Inbound Fault High Cleared (No Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 17:11	--	inFault=0.93% thresh=1% (align 0% crc 100% abort 0%) inFault=1/108 packets in 300 sec
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/3] chrome	23/05/13 17:21	1	inFault=1.46% thresh=1% (align 0% crc 100% abort 0%) inFault=9/616 packets in 301 sec
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 17:21	--	inFault=1.33% thresh=1% (align 0% crc 100% abort 0%) inFault=1/75 packets in 300 sec
1	Port Inbound Fault High Cleared (No Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 17:26	--	inFault=0.00% thresh=1% (no component breakdown) inFault=0/75 packets in 299 sec
1	Port Inbound Fault High Cleared (No Packet Corruption)	top2960 [Fa0/3] chrome	23/05/13 17:26	1	inFault=0.00% thresh=1% (no component breakdown) inFault=0/469 packets in 299 sec
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 17:36	--	inFault=1.30% thresh=1% (align 0% crc 100% abort 0%) inFault=1/77 packets in 301 sec
1	Port Inbound Fault High Cleared (No Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 17:41	--	inFault=0.00% thresh=1% (no component breakdown) inFault=0/67 packets in 299 sec
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/3] chrome	23/05/13 17:56	1	inFault=10.02% thresh=1% (align 0% crc 100% abort 0%) inFault=94/938 packets in 301 sec
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 18:01	--	inFault=1.79% thresh=1% (align 0% crc 100% abort 0%) inFault=3/168 packets in 299 sec
1	Port Inbound Fault High Cleared (No Packet Corruption)	top2960 [Fa0/12] FastEthernet0/12	23/05/13 18:16	--	inFault=0.00% thresh=1% (no component breakdown) inFault=0/86 packets in 299 sec

Figure 8 Event Details Report

Event Details Report Overview

This report lists the events raised for the device within the reporting period, ordered by the date and time they were first raised.

Event Details Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one or All Devices device to run the report against.

Table 16 Event Details Report Header

Name	Description
<i>Minimum severity</i>	All events with a severity level greater than this setting are included to the report. By default all events are included.
<i>Show events that are in no open incidents</i>	When selected events that are associated with closed, aged out or expired incidents are included to the report.
<i>Show events on sub-components</i>	When selected events raised on sub-components of the device, for example its ports, are included to the report.
Maximum displayed events	Maximum number of events included to the report, by default 1000.
Event class	Select All events or the event class the report details when reporting device health: <ul style="list-style-type: none"> <input type="checkbox"/> Port status <input type="checkbox"/> Port quality <input type="checkbox"/> Module status <input type="checkbox"/> SNMP polling <input type="checkbox"/> Reboot <input type="checkbox"/> Chassis and PSU <input type="checkbox"/> Resources <input type="checkbox"/> Outage <input type="checkbox"/> Route peering change. For details on event classes see <i>Event Classes in Activity Reports</i> .
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> <input type="checkbox"/> Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. <input type="checkbox"/> Range, you can enter start and end dates and times.

Table 16 Event Details Report Header

Event Details Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Event Details.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 17 Event Details Report Header

Event Details Report Details

Name	Description
<i>Severity</i>	Severity level of the event, represented by number and color coding.
<i>Event Type</i>	Name of the event.
<i>Source</i>	Originator of the event, e.g. device, port identifier. It is also a hyperlink to the object's summary page in the Entuity web UI.
<i>Time</i>	Time the event was raised against the object. The report is ordered on this attribute.
<i>Incidents</i>	Associated incident raised by the event.
<i>Details</i>	Details of the event.

Table 18 Event Details

Event History Report

Entuity Report



Event Audit Log

Printed on: 28 Oct 2014 10:37:50 GMT

Description: Chronologically ordered listing of individual events

View: My Network

Over the period 23:00 on Sat Oct 25 2014 - 10:00 on Tue Oct 28 2014

Seq	Event type	Source	Time	Incidents
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Vi371] Vlan371	27/10/14 19:45	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Vi371] Vlan371	27/10/14 19:50	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/38] [IR-OFF] Client Port PC & Avaya Phone	27/10/14 22:30	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/38] [IR-OFF] Client Port PC & Avaya Phone	27/10/14 22:35	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Vi2072] Vlan2072	27/10/14 23:40	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Vi2072] Vlan2072	27/10/14 23:43	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/12] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 00:01	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/12] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 00:09	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/38] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 00:25	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/38] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 00:30	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/39] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 01:21	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/39] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 01:29	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/11] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 02:15	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/24] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 02:19	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/11] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 02:19	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/24] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 02:25	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Vi2072] Vlan2072	28/10/14 02:59	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Vi2072] Vlan2072	28/10/14 03:05	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/38] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:05	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/39] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:10	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/38] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:10	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/39] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:15	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/11] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:31	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/11] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:40	1
1	Port Outbound Fault High Cleared (No Transmit Errors)	10.66.100.190 [Gi1/0/43] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:51	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/11] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:51	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/11] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:59	1
4	Port Outbound Fault High (Transmit Errors)	10.66.100.190 [Gi1/0/43] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 03:59	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Vi2072] Vlan2072	28/10/14 04:11	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Vi2072] Vlan2072	28/10/14 04:19	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/38] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 04:30	1

Figure 9 Event History Report

Event History Report Overview

This report lists events by chronological order. The report is highly configurable, allowing you for example to run a report against a specific devices and only include events that meet the set criteria, e.g. severity level, acknowledged.

Event History Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one or All Devices device to run the report against.
<i>Minimum severity</i>	All events with a severity level greater than this setting are included to the report. By default all events are included.
<i>Show events that are in no open incidents</i>	When selected events that are associated with closed, aged out or expired incidents are included to the report.
<i>Show events on sub-components</i>	When selected events raised on sub-components of the device, for example its ports, are included to the report.
<i>Maximum displayed events</i>	Maximum number of events included to the report, by default 1000.
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 19 Event History Report Header

Event History Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Event History.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run. Configurable through Report Options.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 20 Event History Report Header

Event History Report Details

Name	Description
<i>Severity</i>	Severity level of the event, represented by number and color coding.
<i>Event Type</i>	Name of the event.
<i>Source</i>	Originator of the event, e.g. device, port identifier.
<i>Time</i>	Time the event was raised.
<i>Status</i>	Status of the event, e.g. Open, Closed.
<i>Ack User</i>	User name of the user who acknowledged the event.
<i>Ack Time</i>	Time the user acknowledged the event.
<i>Ack details</i>	Description the user entered in the acknowledgement.

Table 21 Event History Details

Event Summary Report

Entuity Report



Event Summary

Printed on: 28 Oct 2014 10:32:01 GMT

Description: Summary of real-time events raised

View: My Network

Over the period 09:32 on Tue Oct 28 2014 - 10:32 on Tue Oct 28 2014

Sev	Event type	Source	First time	Count	Incidents
			Last time		
4	Port Inbound Discards High (Device Congestion)	10.66.100.189 [vlan 1] 802.1Q VLAN	28/10/14 09:34 28/10/14 09:34	1	1
2	SNMP Agent Not Responding	entlonpcmc01	28/10/14 09:35 28/10/14 10:30	8	1
2	SNMP Agent Not Responding	radium	28/10/14 09:35 28/10/14 10:30	12	--
2	SNMP Agent Not Responding	lonswdsk1	28/10/14 09:35 28/10/14 10:30	7	1
1	SNMP Agent Responding	entlonpcmc01	28/10/14 09:42 28/10/14 10:23	6	1
1	SNMP Agent Responding	lonswdsk1	28/10/14 09:49 28/10/14 10:23	4	1
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/1] FastEthernet0/1	28/10/14 09:49 28/10/14 09:49	1	--
4	Port Inbound Fault High (Packet Corruption)	top2960 [Fa0/24] FastEthernet0/24	28/10/14 09:49 28/10/14 09:49	1	--
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/37] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 09:52 28/10/14 09:52	2	--
1	Port Inbound Fault High Cleared (No Packet Corruption)	top2960 [Fa0/24] FastEthernet0/24	28/10/14 09:55 28/10/14 09:55	1	--
1	Port Inbound Fault High Cleared (No Packet Corruption)	top2960 [Fa0/1] FastEthernet0/1	28/10/14 09:55 28/10/14 09:55	1	--
4	Port Inbound Fault High (Packet Corruption)	lonswdsk2 [e8] Ethernet Interface	28/10/14 09:55 28/10/14 10:14	2	--
1	Port Inbound Fault High Cleared (No Packet Corruption)	lonswdsk2 [e8] Ethernet Interface	28/10/14 10:00 28/10/14 10:00	2	--
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/37] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:00 28/10/14 10:00	1	--
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/36] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:00 28/10/14 10:00	1	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/41] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:05 28/10/14 10:05	2	--
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/50] link to LON-AU-DIST-SW04	28/10/14 10:05 28/10/14 10:05	1	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/36] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:05 28/10/14 10:05	1	1
2	Processor Utilization High	Host Resources Processor on 10.44.1.49	28/10/14 10:07 28/10/14 10:07	1	--
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/50] link to LON-AU-DIST-SW04	28/10/14 10:10 28/10/14 10:10	1	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/41] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:10 28/10/14 10:10	1	--
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/9] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:10 28/10/14 10:10	1	1
3	Unknown Trap	10.44.1.1	28/10/14 10:15 28/10/14 10:26	3	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Nu0] Null0	28/10/14 10:16 28/10/14 10:16	1	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/9] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:16 28/10/14 10:16	1	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/43] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:16 28/10/14 10:16	2	1
4	Device Average CPU Utilization High	10.44.1.49	28/10/14 10:20 28/10/14 10:20	1	--
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/49] link to LON-AU-DIST-SW03	28/10/14 10:21 28/10/14 10:21	1	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Nu0] Null0	28/10/14 10:21 28/10/14 10:21	1	1
1	Port Inbound Discards High Cleared (No Device Congestion)	10.66.100.190 [Gi1/0/40] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:21 28/10/14 10:21	1	1
4	Port Inbound Discards High (Device Congestion)	10.66.100.190 [Gi1/0/43] [IR-OFF] Client Port PC & Avaya Phone	28/10/14 10:21 28/10/14 10:21	2	1

Figure 10 Event Summary Report

Event Summary Report Overview

Lists the events raised in the view within the reporting period, ordered by the date and time they were first raised.

Event Summary Report Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one or All Devices device to run the report against.
<i>Minimum severity</i>	All events with a severity level greater than this setting are included to the report. By default all events are included.
<i>Show events that are in no open incidents</i>	When selected events that are associated with closed, aged out or expired incidents are included to the report.
<i>Show events on sub-components</i>	When selected events raised on sub-components of the device, for example its ports, are included to the report.
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 22 Event Summary Report Header

Event Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Event Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 23 Event Summary Report Header

Event Summary Report Details

Name	Description
<i>Severity</i>	Severity level of the event, represented by number and color coding.
<i>Event Type</i>	Name of the event.
<i>Source</i>	Originator of the event, e.g. device, port identifier.
<i>First Time</i>	First time the event was raised against the object. The report is ordered on this attribute.
<i>Last Time</i>	Last time the event was raised against the object.
<i>Count</i>	Number of times the event was raised.
<i>Incidents</i>	Number of open incidents associated to the event.

Table 24 Event Summary Details

Flow Analysis Report

Entuity Report

Flow Analysis



Printed on: 28 Jun 2011 21:27:54 BST

Description: Flow analysis report for device tokyo-router (on sputnik) grouped by Interface

Filters:

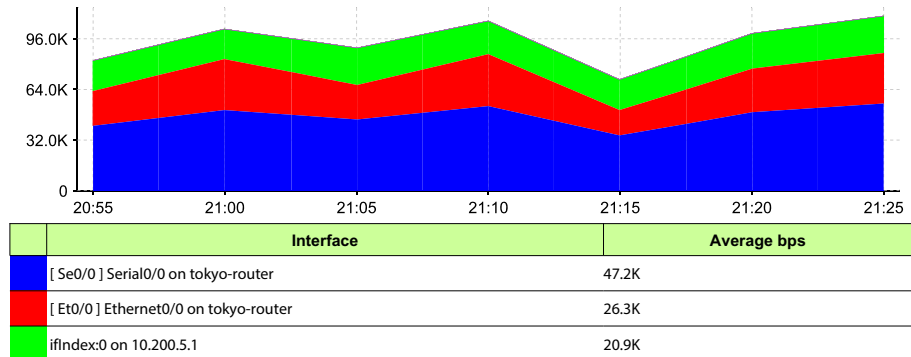


Figure 11 Flow Analysis Report by Interface

Flow Analysis Report Overview

This report is for use with flow data collected using IFA and IFA Premium. It allows you to monitor flow performance for the selected device's interface over the set reporting period. The report is highly configurable, for example you can filter on application, protocols, interfaces.

You can launch this report from both the Reports Browser page, and also directly from the Flow Analysis page. In the latter case, the report options (e.g. timeframe, breakdown, filtering) are automatically populated based on the current state of the Flow Analysis page.

Flow Analysis Report Options

Name	Description
Output Format	Available output formats for the report, i.e. HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.

Table 25 Flow Analysis Report Header

Name	Description
<i>Interval</i>	<p>You can select the time interval over which traffic rate is calculated and Entuity uses the most appropriate sample rate:</p> <p>1 minute sample (IFA Premium only)</p> <ul style="list-style-type: none"> ■ Last 30 minutes <p>5 minute samples</p> <ul style="list-style-type: none"> ■ Last 1 hour ■ Last 2 hours <p>1 hour samples</p> <ul style="list-style-type: none"> ■ Last 4 hours ■ Last 8 hours ■ Last 24 hours ■ Last 2 Days <p>6 hour samples</p> <ul style="list-style-type: none"> ■ Last 4 Days ■ Last Week <p>1 Days samples</p> <ul style="list-style-type: none"> ■ All.
Chart Style	There are four chart styles, i.e. Stacked Area, Line, Bar Chart, Pie Chart.
Top-N	There are three predefined Top-N numbers, 5, 10 and 20 that set the maximum number of records that can appear on a chart. For the clearest presentation of data you should set stacked area and line charts to 5, pie charts to a maximum of 10 and bar charts can be used with 20 entries.
<i>Devices</i>	Device name. When the device sends flows to more than one collector Entuity displays the collector name in brackets. Select a specific device.
<i>Breakdown</i>	A category breakdown of flow data: Interface, Application, Ports, Hosts (In, Out), Listeners, Talkers, Protocols, Quality of Service (QoS) Class DSCP classes, IP Precedence classes. IFA Premium includes a breakdown by conversation.
<i>Interfaces</i>	Device interface with flow enabled.
<i>Applications</i>	Select from the drop down list the application on which to run the report.
<i>Host (type, IP Address)</i>	There are three categories of Host Flow Analysis charts: inbound host traffic, flows with the same destination IP address outbound host traffic, flows with the same source IP address combined inbound and outbound host traffic.
<i>TOS (Kind, Class)</i>	Select TOS kind from DSCP and IP Precedence, DSCP and IP Precedence and select a class from the drop down list.
Protocol	Select from the drop down list of protocols.
Port	Enter the primary UDP/TCP port.

Table 25 Flow Analysis Report Header

Flow Analysis Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Flow Analysis.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Filter</i>	Description of the filter.

Table 26 Flow Analysis Report Header

Flow Analysis Report Details

The details vary according to the configured report, the reporting period is set by *Interval* and the data by *Breakdown*.

IP SLA Details Report

Entuity Report



IP SLA Details

Description: Display of IP SLA operation results

View: Berlin

Over the period 13:20 on Wed May 28 2014 - 13:20 on Thu May 29 2014

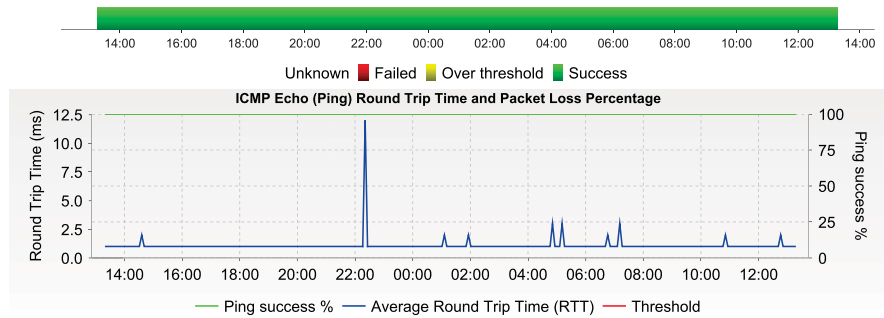
No prime time is set for this report

Printed on: 29 May 2014 13:20:32 BST

Berlin (Echo)

min RTT: 1 ms, mean RTT: 1.1 ms, max RTT: 12 ms, success: 100% (2592/2592), threshold = disabled

Operational state - click to drill down



ping from e2821

min RTT: 1 ms, mean RTT: 1.1 ms, max RTT: 4 ms, success: 100% (2592/2592), threshold = disabled

Operational state - click to drill down

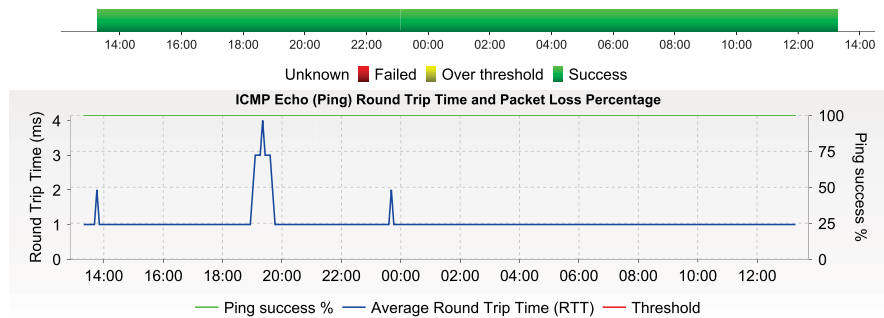


Figure 12 IP SLA Details Report

IP SLA Details Report Overview

This report allows you to monitor the performance of IP SLA operators, providing key statistics and clear graphs. For example the operational state color coded timeline allows for quick apprehension of fluctuations in service delivery, and its drill down functionality allows you to zoom in on the areas of interest.

All Entuity supported IP SLA operators are available through the report. You can call the report from the:

- Report repository, where you select the report options, e.g. server, view, operations.

- Branch office perspectives and report, where the calling context, e.g. which operator's icon was selected, determines the content of the report.
- IP SLA Details report itself, drill down allows you to focus on one selected operator.

IP SLA Details Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multiple Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select an operation</i>	Entuity operation against which the report is to be run. From the drop down list you can select one IP SLA operation, or All Operations to run the report against.
<i>Report period</i>	Period over which the report applies, by default twenty-four hours. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 27 IP SLA Details Report Header

IP SLA Details Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Details.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 28 IP SLA Details Report Header

IP SLA Details Report Details

The details vary according to the configured Cisco IOS IP SLA operation, e.g. Jitter, HTTP, Echo. When you click on the color coded operational state timeline, Entuity drills down on the operation.

Name	Description
Name	IP SLA operation name.
<i>Min RTT</i>	Minimum successful round trip completion time.
<i>Max RTT</i>	Maximum successful round trip completion time.
<i>Mean RTT</i>	Mean average of successful round trip completion times.
Success	Displays the success of the operation, both as a percentage value of total operations over the reporting period with the successful and total number of operations given in brackets.
Threshold	Enabled indicates the threshold event is enabled for the operation, disable indicates the event is disabled.
Echo Operator Chart	
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drill down to the next sample level.
<i>Min RTT</i>	Minimum successful round trip completion time.
<i>Max RTT</i>	Maximum successful round trip completion time.
<i>Mean RTT</i>	Mean average of successful round trip completion times.
Success	Operator success as a percentage of total created operators. For a new operator, its first instance always fails.
Threshold	Indicates the event threshold level, or whether it is disabled, DNS translation time, TCP connect time and HTTP download time.
Chart	Chart displays threshold level, ping success and average round trip time.
HTTP Operator Chart	
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drill down to the next sample level.
<i>Min RTT</i>	Minimum successful round trip completion time.
<i>Max RTT</i>	Maximum successful round trip completion time.
<i>Mean RTT</i>	Mean average of successful round trip completion times.
Success	Operator success as a percentage of total created operators. For a new operator, its first instance always fails.
Threshold	Indicates the event threshold level, or whether it is disabled, DNS translation time, TCP connect time and HTTP download time.
Chart	Chart displays threshold level, total operation time.
UDP, TCP, DNS Operator Charts	
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drill down to the next sample level.

Table 29 IP SLA Details

Name	Description
Chart	Chart displays threshold level and total operation time.
Jitter Operator Charts	Three charts, Loss, Delay and Jitter.
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drill down to the next sample level.
Loss chart	Loss chart displays Total loss, Loss from source to destination and Loss from destination to source.
Jitter chart	Jitter chart displays Average Jitter from source to destination and Average Jitter from destination to source.
Delays chart	Delays chart displays threshold, Round trip time, Delay from source to destination and Delay from destination to source.

Table 29 IP SLA Details

IP SLA TopN Echo by RTT Report

Entuity Report

IP SLA TopN Echo by Round Trip Time Report



Printed on: 26 Nov 2009 14:40:29 GMT

Description: TopN IP SLA Echo measurements by max RTT

View: Regional

TopN: 10

Over the period 00:00 on Mon Nov 02 2009 - 00:00 on Thu Nov 26 2009

No prime time is set for this report

IP SLA Name	Device name	TOS	Max round trip time (ms)	Mean round trip time (ms)
Ping	e2821.entuity.local	0	4	0.6
ping swell from e2821	e2821.entuity.local	0		
London IP SLA	top2960	0		

Figure 13 IP SLA TopN Echo by RTT Report

IP SLA TopN Echo by RTT Report Overview

This report details the performance of IP SLA echo probes within the selected view. You can restrict the number of probes to the TopN with the maximum latency.

IP SLA TopN Echo by RTT Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>TopN</i>	Enter a number when you want to restrict the number of reported probes to those with the maximum latency. The default setting 0 includes all probes within the view.
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 30 IP SLA TopN Echo by RTT Report Header

IP SLA TopN Echo by RTT Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>TopN</i>	Number of probes included to the report.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 31 IP SLA TopN Echo by RTT Report Header

IP SLA TopN Echo by RTT Report Details

Name	Description
Name	IP SLA operation name.
<i>Device name</i>	Identifier of the device running the IP SLA operation, e.g. host name or IP address.
TOS	Defines the IP Type of Service (TOS) byte for request packets. This attribute may also be used as a Differentiated Services Code Point (DSCP).
<i>Max round trip time (ms)</i>	Maximum completion time of RTT operations which complete successfully within the reporting period.
<i>Mean round trip time (ms)</i>	Mean average of successful round trip completion times within the reporting period.

Table 32 IP SLA TopN Echo by RTT

Managed Host Summary Report

Entuity Report



Server (Managed Host) Summary

Printed on:

Description: Summary of managed hosts

View: My Network

Servers: 1

Over the period 10:00 on Sun Oct 26 2014 - 10:00 on Tue Oct 28 2014

No prime time is set for this report

Printed on: 28 Oct 2014 10:44:20 GMT

Name: bvt

sysName: bvt-eye.entuity.local

Location: Virtual Machine on galaxy

Management IP: 10.44.4.139

Uptime %: 100.00

Unknown uptime: 0h 0m 0s

Outages: 0

Total memory: 3832 Mbytes

Last reboot: Wed Oct 15 17:00:34 BST 2014

Polling status: Polling on ENTLPVPM01

System descr: Linux bvt-eye.entuity.local 2.6.32-431.29.2.el6.x86_64 #1 SMP Tue Sep 9 11:28:47 PDT 2014 x86_64

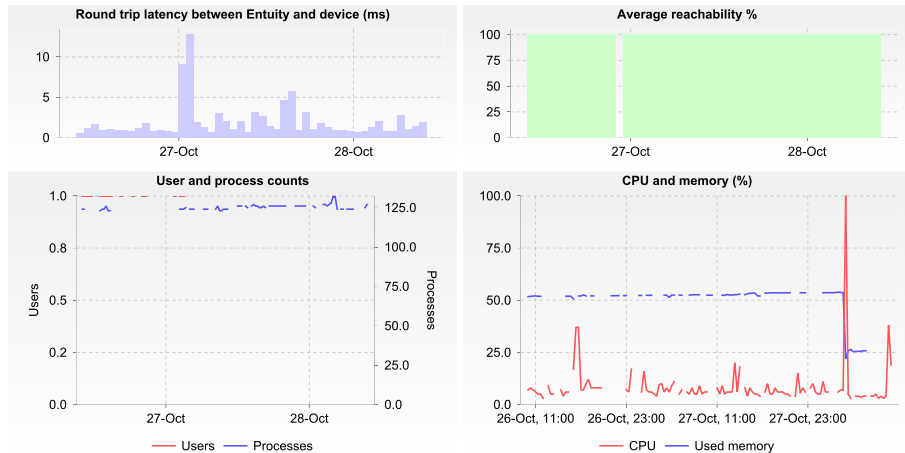


Figure 14 Managed Host Summary Report

Managed Host Summary Report Overview

This report details the performance of each managed host within the selected view during the reporting period.

Managed Host Summary Report Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 33 Managed Host Summary Report Options

Name	Description
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device, or All Devices , to run the report against. Entuity manages servers as devices.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 33 Managed Host Summary Report Options

Managed Host Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Managed Host Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Servers</i>	The devices included to the report.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 34 Managed Host Summary Report Header

Managed Host Summary Report Details

Name	Description
<i>sysName</i>	System name or where not available the IP address of the managed host.
<i>Location</i>	SysLocation, or where not available it is left blank.
<i>Management IP</i>	IP address Entuity uses to manage the managed host.
<i>Total Memory</i>	Total memory installed to the device.
<i>Last reboot</i>	Last reboot of the managed host.
<i>Polling status</i>	Current polling status of the device.
<i>System descr</i>	System description, which for a Cisco device is a parsed sysDescr with model, version and serial number.
<i>Uptime%</i>	Percentage of time the host was up during the reporting period.

Table 35 Managed Host Summary

Name	Description
<i>Unknown uptime</i>	Amount of time state of the host was unknown.
<i>Outages</i>	Number of outages during the reporting period.
<i>Round Trip Latency between Entuity and the device</i>	Graph charts round trip latency between the Entuity server and the host, in milliseconds.
<i>Average Reachability %</i>	Graph charts the amount of time the device responds to ping as a percentage of the reporting period.
<i>User and process counts</i>	Graph charts number of users and processes during the reporting period.
<i>CPU and memory</i>	Graph charts router CPU utilization and memory usage over the reporting period.

Table 35 Managed Host Summary

Memory Utilization Details

Entuity Report Memory Utilization Details



Description: Memory utilization percentage details over multiple timeframes
View: My Network (admin)
Device: c3560

Printed on: 2 Oct 2015 11:42:39 BST

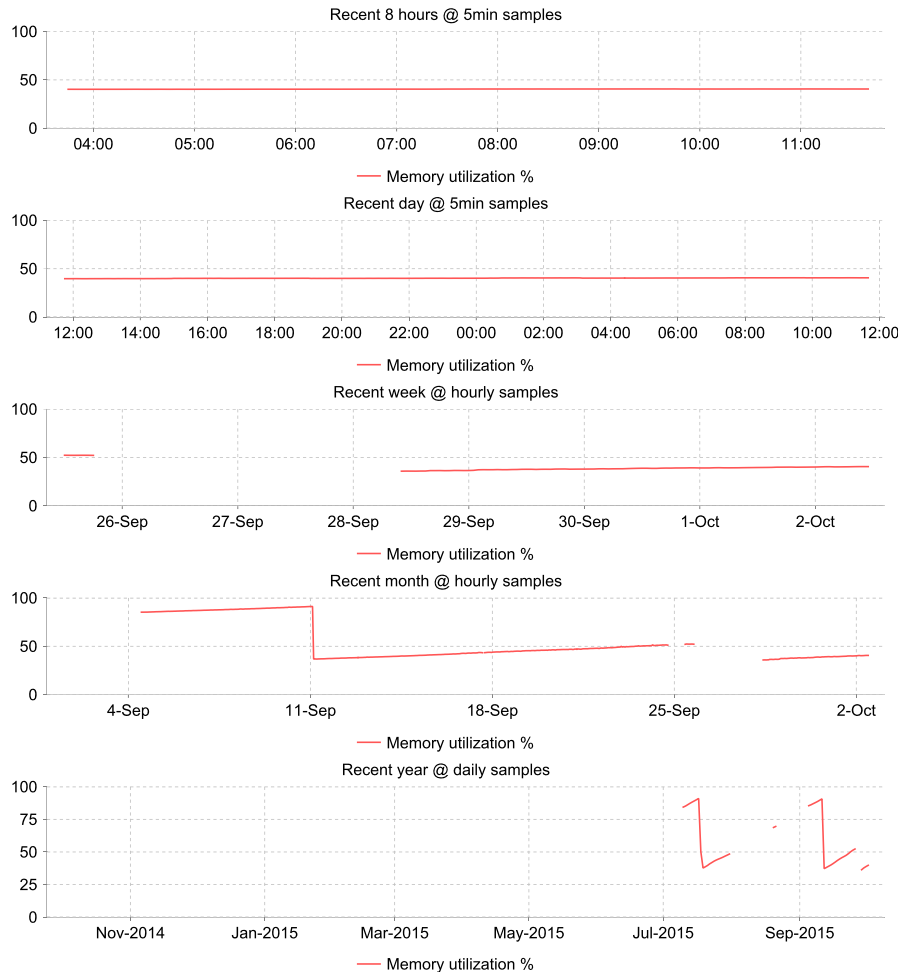


Figure 15 Memory Utilization Details Report

Memory Utilization Details Report Overview

This report provides five charts showing memory utilization for the specified device. It can be called:

- By clicking **Reports > Activity Reports** and then clicking Memory Utilization Details report. You must then complete the report options to set the device against which you want to run the report.
- From the Device Memory Capacity Planning Trend report by clicking on *Device name* in that report. Entuity runs the Memory Utilization Details report using that device and the trend report Report Options.

Memory Utilization Details Report Options

Completing the Report Options allows you to select the device against which you want to run the Memory Utilization Details report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.

Table 36 Memory Utilization Details Report Options

Memory Utilization Details Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Memory Utilization Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
View	View against which the report is run.
Device	Device against which the report is run.

Table 37 Memory Utilization Details Report Header

Memory Utilization Report Details

This report provides charts showing Memory utilization for the specified device over five different reporting periods. These report periods start from when the report is run, and are specifically over the previous:

- eight hours, charting the polled five minute data samples
- twenty-four hours, charting the polled five minute data samples

- seven days, charting hourly rolled up data samples
- thirty days, charting hourly rolled up data samples
- year, charting daily rolled up data samples.

Memory Utilization Trend Report

Entuity Report



Memory Utilization Trend

Description: Regression based trend prediction for memory utilization
 View: My Network (admin)
 Over the period 00:00 on Sun Aug 02 2015 - 00:00 on Sun Sep 27 2015
 No prime time is set for this report
 Device name: c2821

Printed on: 2 Oct 2015 11:49:38 BST

Device Serial Number: FHK1130F2XA
 Inbound 6 month prediction: 36.7%
 Inbound 12 month prediction: 43.5%

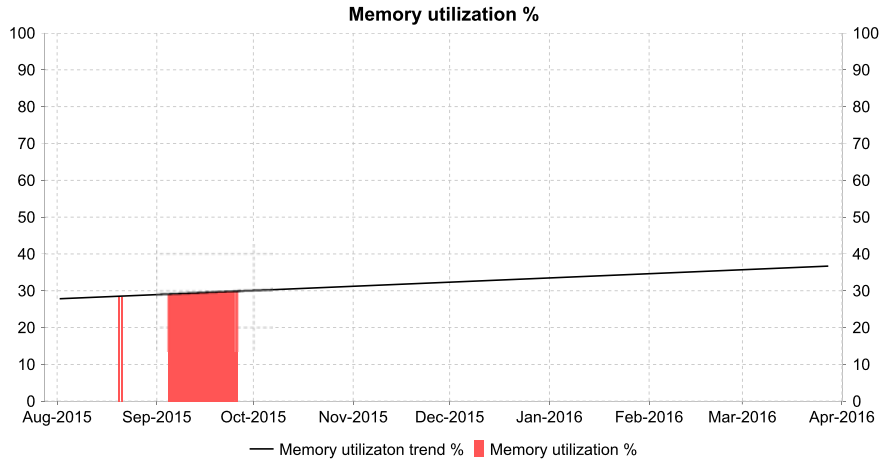


Figure 16 Memory Utilization Trend Report

Memory Utilization Trend Report Overview

This report graphs predictions for the next six months of memory utilization. Predictions are derived from applying regression analysis to the device’s historical memory utilization data, by default for the last eight weeks, although you can configure it.

Memory Utilization Trend Report Options

Completing the Report Options allows you to select the device against which you want to run the Memory Utilization Trend report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.

Table 38 Memory Utilization Trend Report Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.
<i>Report Period</i>	Period of historical utilization data Entuity uses to generate the utilization trends. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. previous eight weeks. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 38 Memory Utilization Trend Report Options

Memory Utilization Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Memory Utilization Trend.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	The the period over which the sample data was collected by Entuity. This sample data is used to calculate the trend in Memory utilization for the next six months.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>Device Name</i>	Device against which the report was run.

Table 39 Memory Utilization Trend Report Header

Memory Utilization Report Details

Name	Description
<i>Device Serial Number</i>	Serial number of the device.
<i>6 month prediction</i>	Predicted utilization of the device's memory, in six months time, as a percentage of the referenced total memory resource.

Table 40 Memory Utilization Trend Details

Name	Description
<i>12 month prediction</i>	Predicted utilization of the device's memory, in twelve months time, as a percentage of the referenced total memory resource.
<i>Memory utilization trend %</i>	Graphs predicted utilization of the memory, over the next six months, as a percentage of the referenced total Memory resource.
<i>Memory utilization %</i>	Graphed memory utilization of the device.

Table 40 Memory Utilization Trend Details

Port Data Rate Chart

Entuity Report Port Data Rate Chart



Description: Chart of data rate of up to 8 ports with aggregated rates
 Over the period 11:00 on Tues Nov 20 2012 - 11:00 on Wed Nov 21 2012
 No prime time is set for this report
 Sample period: 15 minutes

Printed on: 21 Nov 2012 11:33:45 GMT

Device name	Port description	Speed (bits/sec)	Line color
10.44.1.254	[00002] ppp0	0	Red
10.44.1.80	[65539] Broadcom NetXtreme 5751 Gigabit Controller	100 M	Blue



Figure 17 Traffic Rate Chart

Port Data Rate Report Overview

This report charts port traffic data for up to 8 ports over the reporting period. A summary table identifies the ports and also their associated line colors used on the traffic charts. Three charts plot each port's inbound, outbound and aggregate data rates.

Port Data Rate Report Options

Completing the Report Options allows you to select the ports against which you want to run the report.

Name	Description
Used saved values	Select from saved report configurations.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select view(s)</i>	Entuity view against which the report is to be run. From the list you can select one or more views to run the report against.
<i>Please select device(s)</i>	From the list you can select All Devices , a number of devices or one device to run the report against.
<i>Please select ports</i>	From the list you can select up to 8 ports to run the report against.
<i>Please select the sample period</i>	From the list you can select the report sample period.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 41 Traffic Rate Report Options

Traffic Rate Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Data Rate Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
Sample Period	The port utilization sample period.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 42 Traffic Rate Chart Report Header

Traffic Rate Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Port Description</i>	Description of the port.
<i>Line Color</i>	The line color used to graph the port's data rate values.
<i>Inbound data rate (Kbits/sec)</i>	Inbound data rate of the port in the reporting period.
<i>Outbound data rate (Kbits/sec)</i>	Outbound data rate of the port in the reporting period.
<i>Aggregate data rate (Kbits/sec)</i>	Chart displays an aggregate of all inbound data rate for port's in the report, and an aggregate of all outbound data rate for port's in the report, in the reporting period.

Table 43 Traffic Rate Chart Details

Port Discard Trend Report

Entuity Report



Port Discard Trend

Description: Regression based trend prediction for port discards

View: My Network (admin)

Over the period 00:00 on Sun Aug 02 2015 - 00:00 on Sun Sep 27 2015

No prime time is set for this report

Printed on: 2 Oct 2015 12:06:11 BST

Device name: aruba6000.bvt.entuity.lab

Port name: [loop] SWITCH IP INTERFACE

Inbound speed: 100 bps

Outbound speed: 100 bps

Inbound 6 month prediction: 17.1%

Outbound 6 month prediction: 15.4%

Inbound 12 month prediction: 10.3%

Outbound 12 month prediction: 7.0%

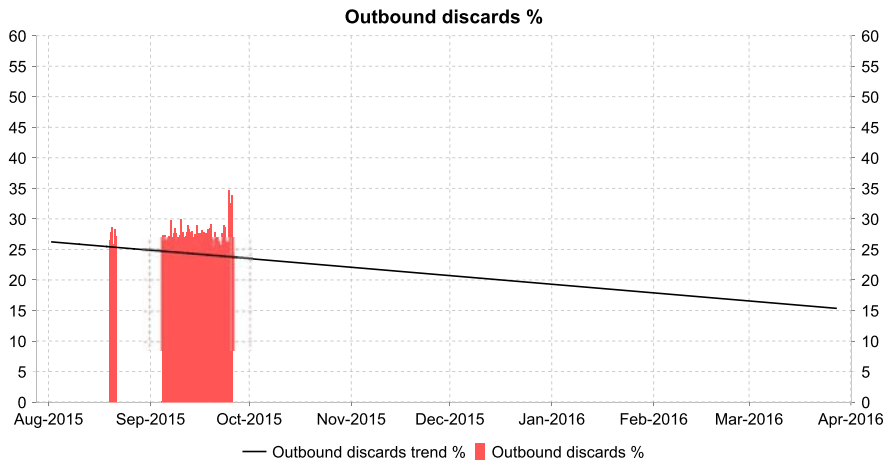
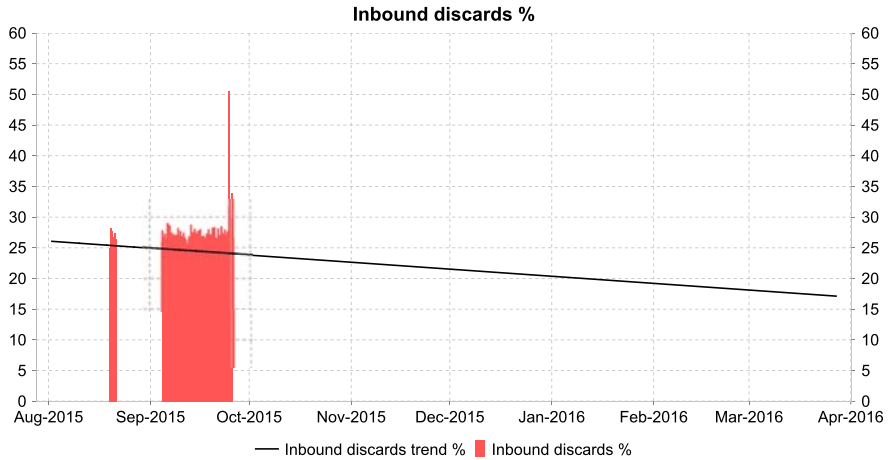


Figure 18 Port Discard Trend Report

Port Discard Trend Report Overview

This report graphs predictions for the next six months of port Discard. Predictions are derived from applying regression analysis to the device's historical port discard data, by default for the last eight weeks, although you can configure it.

Port Discard Trend Report Options

Completing the Report Options allows you to select the device against which you want to run the Port Discard Trend report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against. When the device is hidden from you but its ports are available to you select Hidden Devices (with visible ports) .
<i>Please select a port</i>	From the drop down list you can select one port to run the report against.
<i>Max chart scale (%)</i>	Sets the upper value of scale used on the chart. For example where you have a discard rate below 20 you could improve the presentation of the graph by setting the upper range of the chart scale to 50.
<i>Report Period</i>	Period of historical utilization data Entuity uses to generate the utilization trends. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. previous eight weeks. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 44 Port Discard Trend Report Options

Port Discard Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Discard Trend.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.

Table 45 Port Discard Trend Report Header

Name	Description
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	The the period over which the sample data was collected by Entuity. This sample data is used to calculate the trend in Port Discard for the next six months.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>Device Name</i>	Device against which the report was run.

Table 45 Port Discard Trend Report Header

Port Discard Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Port Name</i>	Description of the port.
<i>Inbound Speed</i>	Inbound port speed of the line.
<i>Inbound 6 month prediction</i>	Predicted inbound discards of the port, in six months time, as a percentage of the referenced port speed.
<i>Inbound 12 month prediction</i>	Predicted inbound discards of the port, in twelve months time, as a percentage of the referenced port speed.
<i>Outbound Speed</i>	Outbound port speed of the line.
<i>Outbound 6 month prediction</i>	Predicted outbound discards of the port, in twelve months time, as a percentage of the referenced port speed.
<i>Outbound 12 month prediction</i>	Predicted outbound discards of the port, in twelve months time, as a percentage of the referenced port speed.
<i>Inbound discards trend %</i>	Graphs predicted inbound discards of the port, over the next six months, as a percentage of the referenced inbound port speed.
<i>Inbound discards %</i>	Inbound discards of the port over the reporting period, as a percentage of the referenced port inbound speed.
<i>Outbound discards trend %</i>	Graphs predicted outbound discards of the port, over the next six months, as a percentage of the referenced outbound port speed.
<i>Outbound discards %</i>	Inbound discards of the port over the reporting period, as a percentage of the referenced port inbound speed.

Table 46 Port Utilization Chart Details

Port Discards Details

Entuity Report Port Discards Details



Description: Port discards percentage details over multiple timeframes

View: My Network (admin)

Printed on: 2 Oct 2015 12:26:34 BST

Port: [gig2/0] gig2/0 on aruba6000.bvt.entuity.lab in-speed 1 Gbps out-speed 1 Gbps

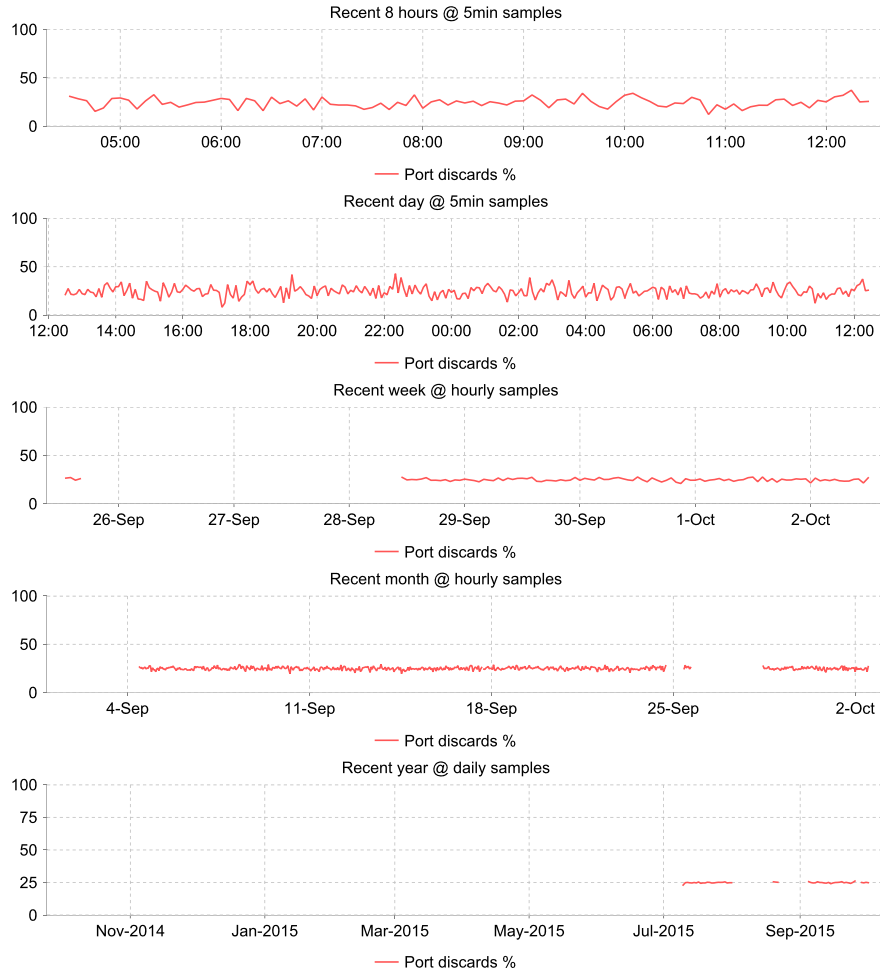


Figure 19 Port Discards Details Report

Port Discards Details Report Overview

This report provides five charts showing port discards for the specified device. It can be called:

- By clicking **Reports > Activity Reports** and then clicking Port Discards Details report. You must then complete the report options to set the device against which you want to run the report.
- From the Device Memory Capacity Planning Trend report by clicking on a device in that report. Entuity runs the Port Discards Details report using that device and the trend report Report Options.

Port Discards Details Report Options

Completing the Report Options allows you to select the device against which you want to run the Port Discards Details report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against. When the device is hidden from you but its ports are available to you select Hidden Devices (with visible ports) to have them available to report on.
<i>Please select a port</i>	From the drop down list you can select one port to run the report against.

Table 47 Port Discards Details Report Options

Port Discards Details Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Discards Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	View against which the report is run.
<i>Port</i>	Identifies the device and port on which the report is run and the inbound and outbound line speed.

Table 48 Port Discards Details Report Header

Port Discards Report Details

This report provides charts showing Port Discards for the specified port over five different reporting periods. These report periods start from when the report is run, and are specifically over the previous:

- eight hours, charting the polled five minute data samples
- twenty-four hours, charting the polled five minute data samples
- seven days, charting hourly rolled up data samples
- thirty days, charting hourly rolled up data samples
- year, charting daily rolled up data samples.

Port Statistics Comparison

Entuity Report

Port Utilization, Volume, Discards and Faults Comparison



Description: Comparison of mean utilization, volume, discard and faults percentage for up to 8 ports

Over the period 14:00 on Fri Nov 30 2012 - 14:00 on Sat Dec 01 2012

No prime time is set for this report

Printed on: 1 Dec 2012 14:11:15 GMT

Device name	Port description	Speed (bits/sec)	Color
lonsw01	[2/1] TRUNK to lonsw02	100 M	Blue
lonsw01	[2/3] TRUNK to lonsw05	100 M	Red
lonsw02	[2/1] TRUNK to lonsw01	100 M	Green
lonsw03	[2/1] TRUNK to lonsw02	100 M	Yellow
lonsw03	[2/2] TRUNK to lonsw01	100 M	Magenta
lonsw03	[2/3] TRUNK to lonsw04	100 M	Cyan

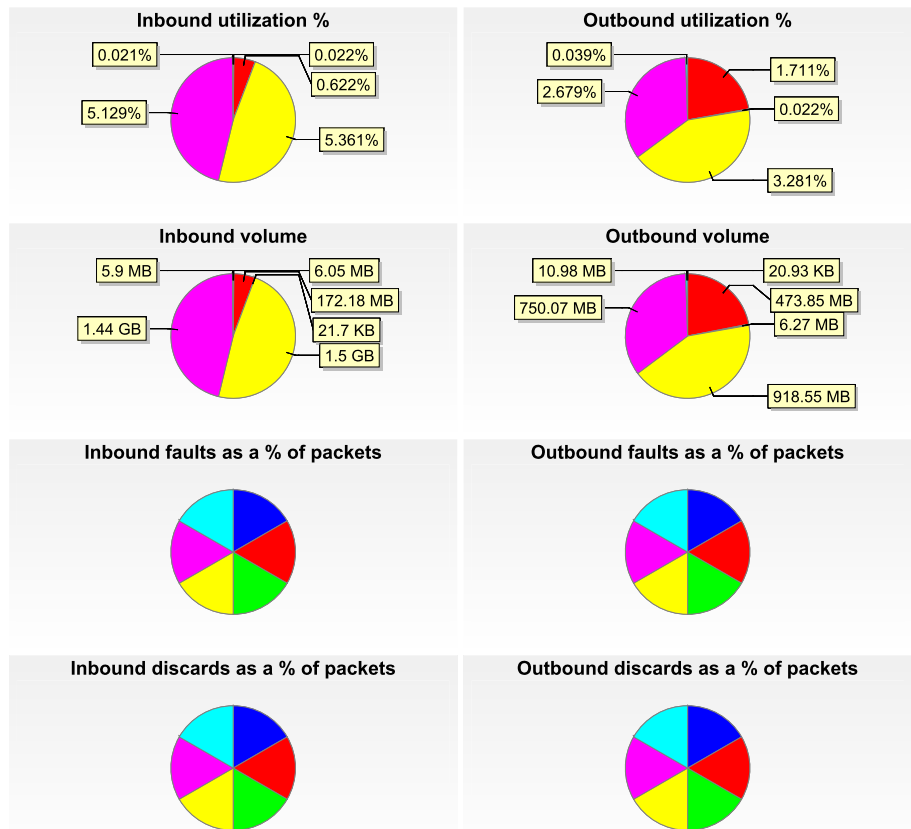


Figure 20 Port Statistics Comparison Chart

Port Statistics Comparison Report Overview

This report compares mean utilization, volume, discard and faults percentage values for up to 8 ports. A summary table identifies the ports and also the line colors used with the pie charts.

The Inbound and outbound utilization and volume pie charts include call-outs of each port's value, the segments within the pie chart represents each port's metric as a proportion of the total value of that metrics for ports in the report over the reporting period. For example the inbound utilization chart represents port utilization as a percentage of the referenced port speed, expressed within the pie chart as a proportion of the total inbound utilization of ports within the report during the reporting period.

The inbound and outbound fault and discard pie charts include call-outs of each port's value, the segments within the pie chart represents each port's metric as a proportion of the total value of that metrics for ports in the report over the reporting period. For example the inbound faults charts represents aggregate values for the packets with faults displayed as a percentage of total inbound packets on the port, expressed within the pie chart as a proportion of the total inbound faults within the report during the reporting period.

Port Statistics Comparison Report Options

Completing the Report Options allows you to select the ports against which you want to run the report.

Name	Description
Used saved values	Select from saved report configurations.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select view(s)</i>	Entuity view against which the report is to be run. From the list you can select one or more views to run the report against.
<i>Please select device(s)</i>	From the list you can select All Devices , a number of devices or one device to run the report against.
<i>Please select ports</i>	From the list you can select up to 8 ports to run the report against.
<i>Please select the sample period</i>	From the list you can select the report sample period.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 49 Port Utilization Chart Report Options

Port Statistics Comparison Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Port Description</i>	Description of the port.
<i>Speed (bits/sec)</i>	The port's referenced interface speed, used for example, when Entuity calculates port utilization.
<i>Line Color</i>	The line color used to graph the port's values.
<i>Inbound utilization %</i>	Inbound utilization of the port as a percentage of the referenced port speed, identified by a call-out from the port's pie segment. The size of the segment within the pie chart is a proportion of the total inbound utilization of ports within the report during the reporting period.
<i>Outbound utilization %</i>	Outbound utilization of the port as a percentage of the referenced port speed, identified by a call-out from the port's pie segment. The size of the segment within the pie chart is a proportion of the total outbound utilization of ports within the report during the reporting period.
<i>Inbound Volume</i>	Inbound traffic for each port identified by a call-out from the port's pie segment. The size of the segment within the pie chart is a proportion of the total inbound traffic volume of ports within the report during the reporting period.
<i>Outbound Volume</i>	Outbound traffic for each port identified by a call-out from the port's pie segment. The size of the segment within the pie chart is a proportion of the total outbound traffic volume of ports within the report during the reporting period.
<i>Inbound Fault as a % of Packets</i>	Inbound packets with faults displayed as a percentage of total inbound packets on the port, expressed within the pie chart as a proportion of the total inbound faults within the report during the reporting period.
<i>Outbound Fault as a % of Packets</i>	Outbound packets with faults displayed as a percentage of total number of packets transmitted from the port, expressed within the pie chart as a proportion of the total outbound faults within the report during the reporting period.
<i>Inbound Discards as a % of Packets</i>	Discarded inbound packets displayed as a percentage of total inbound packets on the port, expressed within the pie chart as a proportion of the total inbound discards within the report during the reporting period.
<i>Outbound Discards as a % of Packets</i>	Discarded outbound packets displayed as a percentage of total outbound packets on the port, expressed within the pie chart as a proportion of the total outbound discards within the report during the reporting period.

Table 50 Port Statistics Comparison Chart

Port Utilization, Discards and Faults Chart

Entuity Report

Port Utilization, Discards and Faults Chart



Description: Chart of utilization, discard and faults percentage of up to 8 ports

Over the period 15:25 on Wed Nov 14 2012 - 15:25 on Wed Nov 21 2012

No prime time is set for this report

Printed on: 21 Nov 2012 15:25:55 GMT

Sample period: 2 hours

Device name	Port description	Speed (bps)		Color
		In	Out	
stress-54.ms.entuity.lab	[AT4/0] ### 74-99849-66 ### STM-1 ###	149.76 M	149.76 M	■
stress-54.ms.entuity.lab	[ATM4/0.0-aal5 layer] ### 74-99849-66 ### STM-1 ###	149.76 M	149.76 M	■

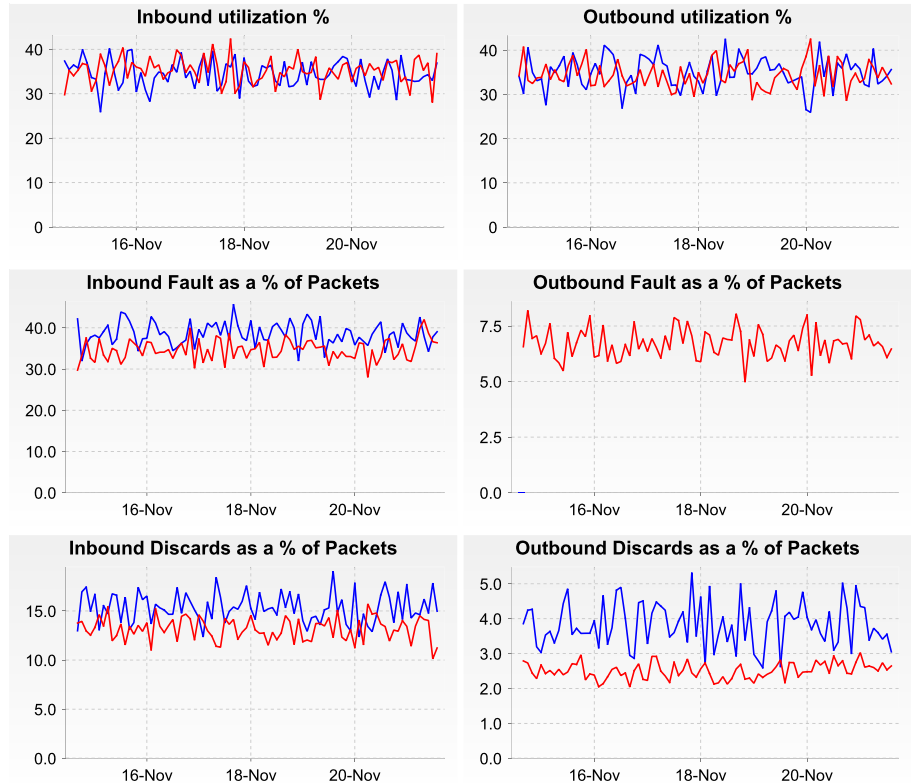


Figure 21 Port Utilization, Discards and Faults Chart

Port Utilization, Discards and Faults Chart Report Overview

The report includes 6 charts, for inbound and outbound utilization, fault and discard data from up to 8 ports.

Port Utilization, Discards and Faults Chart Report Options

Completing the Report Options allows you to select the ports against which you want to run the report.

Name	Description
Used saved values	Select from saved report configurations.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select view(s)</i>	Entuity view against which the report is to be run. From the list you can select one or more views to run the report against.
<i>Please select device(s)</i>	From the list you can select All Devices , a number of devices or one device to run the report against.
<i>Please select ports</i>	From the list you can select up to 8 ports to run the report against.
<i>Please select the sample period</i>	From the list you can select the report sample period.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 51 Port Utilization Chart Report Options

Port Utilization, Discards and Faults Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Utilization Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
Sample Period	The port utilization sample period.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 52 Port Utilization Chart Report Header

Port Utilization, Discards and Faults Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Port Description</i>	Description of the port.
<i>Speed (bits/sec)</i>	The port's referenced interface speed, used for example, when Entuity calculates port utilization.
<i>Color</i>	The line color used to graph the port's values in the subsequent graphs.
<i>Inbound utilization %</i>	Inbound utilization of the port as a percentage of the referenced port speed.
<i>Outbound utilization %</i>	Outbound utilization of the port as a percentage of the referenced port speed.
<i>Inbound Fault as % of Packets</i>	Inbound faults over the reporting period as a percentage of the total number of packets received by the port.
<i>Outbound Fault as % of Packets</i>	Outbound faults over the reporting period as a percentage of the total number of packets transmitted by the port.
<i>Inbound Discards as % of Packets</i>	Inbound discards over the reporting period as a percentage of the total number of packets received by the port.
<i>Outbound Discards as % of Packets</i>	Outbound discards over the reporting period as a percentage of the total number of packets transmitted by the port.

Table 53 Port Utilization Chart Details

Port Utilization Chart

Entuity Report Port Utilization Chart



Description: Chart of utilization percentage of up to 8 ports
 Over the period 15:36 on Wed Nov 14 2012 - 15:36 on Wed Nov 21 2012
 No prime time is set for this report
 Sample period: 2 hours

Printed on: 21 Nov 2012 15:36:49 GMT

Device name	Port description	Speed (bps)		Color
		In	Out	
stress-54.ms.entuity.lab	[AT4/0] ### 74-99849-66 ### STM-1 ###	149.76 M	149.76 M	■
stress-54.ms.entuity.lab	[ATM4/0.0-aal5 layer] ### 74-99849-66 ### STM-1 ###	149.76 M	149.76 M	■

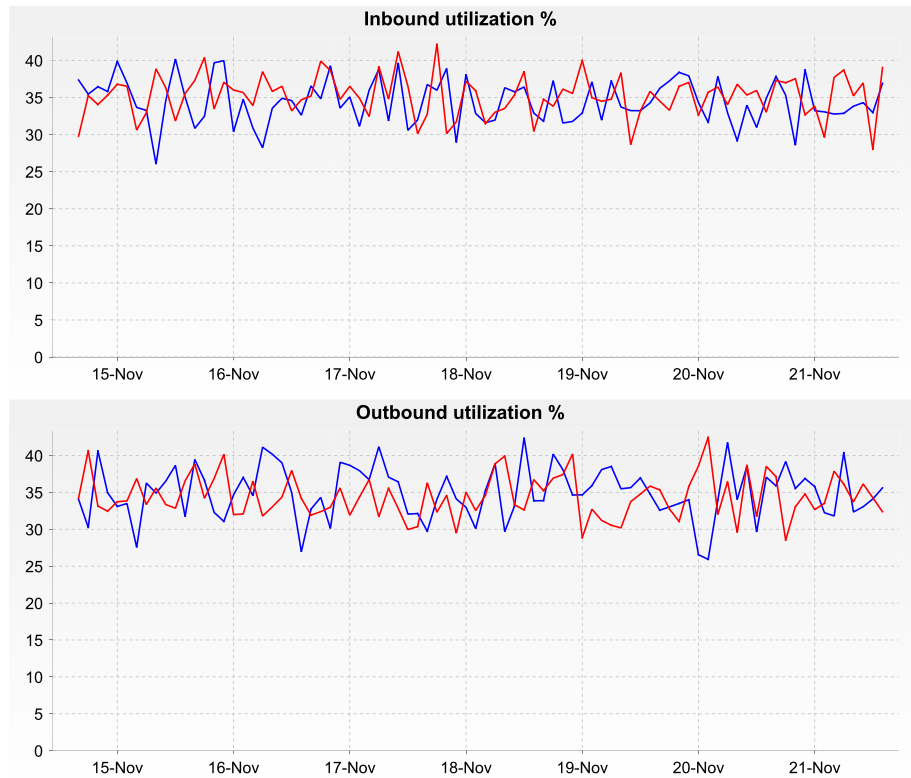


Figure 22 Port Utilization Chart

Port Data Rate Report Overview

The report includes 6 charts, for inbound and outbound utilization, fault and discard data from up to 8 ports.

Port Utilization Chart Report Options

Completing the Report Options allows you to select the ports against which you want to run the report.

Name	Description
Used saved values	Select from saved report configurations.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select view(s)</i>	Entuity view against which the report is to be run. From the list you can select one or more views to run the report against.
<i>Please select device(s)</i>	From the list you can select All Devices , a number of devices or one device to run the report against.
<i>Please select ports</i>	From the list you can select up to 8 ports to run the report against.
<i>Please select the sample period</i>	From the list you can select the report sample period.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 54 Port Utilization Chart Report Options

Port Utilization Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Utilization Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
Sample Period	The port utilization sample period.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 55 Port Utilization Chart Report Header

Port Utilization Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Port Description</i>	Description of the port.
<i>Speed (bits/sec)</i>	The port's referenced interface speed, used for example, when Entuity calculates port utilization.
<i>Line Color</i>	The line color used to graph the port's utilization values.
<i>Inbound utilization %</i>	Inbound utilization of the port as a percentage of the referenced port speed.
<i>Outbound utilization %</i>	Outbound utilization of the port as a percentage of the referenced port speed.

Table 56 Port Utilization Chart Details

Port and CPU Utilization Chart

Entuity Report

Port and CPU Utilization Chart



Description: Chart of utilization of up to 8 ports with mean and individual processor CPUs

Over the period 00:00 on Fri Nov 30 2012 - 00:00 on Sat Dec 01 2012

No prime time is set for this report

Printed on: 1 Dec 2012 00:07:41 GMT

Device name: 10.66.60.9

Sample period: 15 minutes

Port/CPU description	Speed (bits/sec)	Color
[00001] "Port 1"	1 G	█

Mean utilization percentage of all CPUs

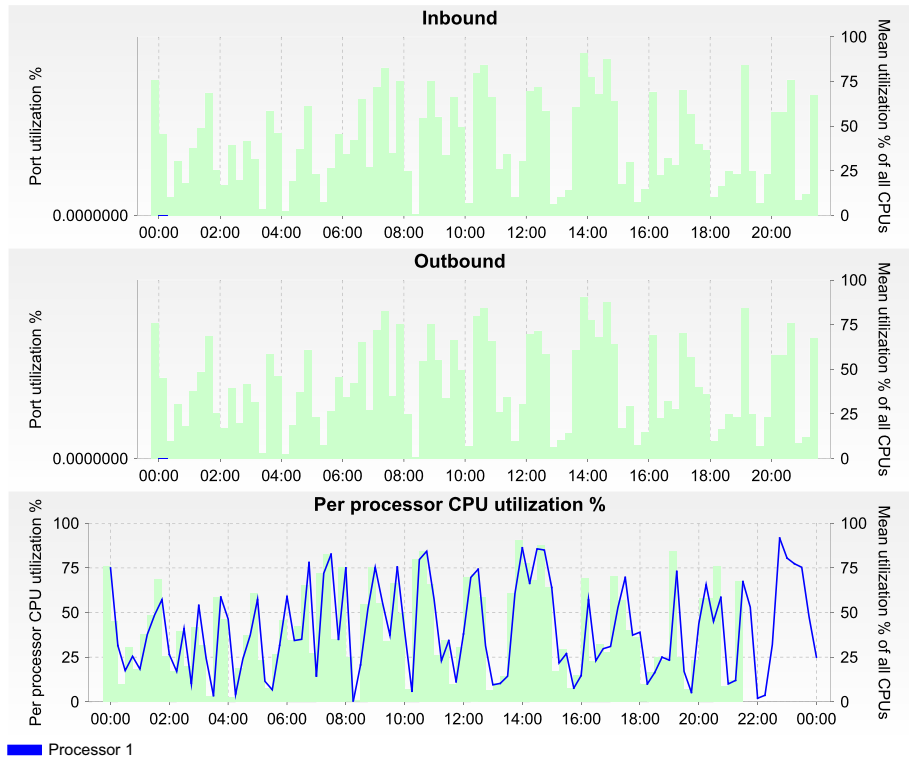


Figure 23 Port and CPU Utilization Chart

Port Data Rate Report Overview

The report includes 6 charts, for inbound and outbound utilization, fault and discard data from up to 8 ports. Chart of utilization of up to 8 ports with mean and individual processor CPUs

Port and CPU Utilization Chart Report Options

Completing the Report Options allows you to select the ports against which you want to run the report.

Name	Description
Used saved values	Select from saved report configurations.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select view(s)</i>	Entuity view against which the report is to be run. From the list you can select one or more views to run the report against.
<i>Please select device(s)</i>	From the list you can select All Devices , a number of devices or one device to run the report against.
<i>Please select ports</i>	From the list you can select up to 8 ports to run the report against.
<i>Please select the sample period</i>	From the list you can select the report sample period.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 57 Port Utilization Chart Report Options

Port and CPU Utilization Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Utilization Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
Sample Period	The port utilization sample period.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.

Table 58 Port and CPU Utilization Chart Report Header

Port and CPU Utilization Chart Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Port Description</i>	Description of the port.
<i>Speed (bits/sec)</i>	The port's referenced interface speed, used for example, when Entuity calculates port utilization.
<i>Color</i>	The line color used to graph the port's values.
<i>Inbound utilization %</i>	Inbound utilization of the port as a percentage of the referenced port speed.
<i>Outbound utilization %</i>	Outbound utilization of the port as a percentage of the referenced port speed.
Per processor CPU utilization %	Graphs per processor CPU utilization over the reporting period.

Table 59 Port and CPU Utilization Chart

Port Fault Details

Entuity Report

Port Fault Details



Description: Breakdown of individual port error types

View: My Network

Over the period 13:17 on Wed Sep 05 2012 - 13:17 on Thu Sep 06 2012

No prime time is set for this report

Printed on: 6 Sep 2012 13:17:01 BST

Port: [2/9] LONSWDSK1 on lonsw01 in-speed 100 Mbps out-speed 100 Mbps

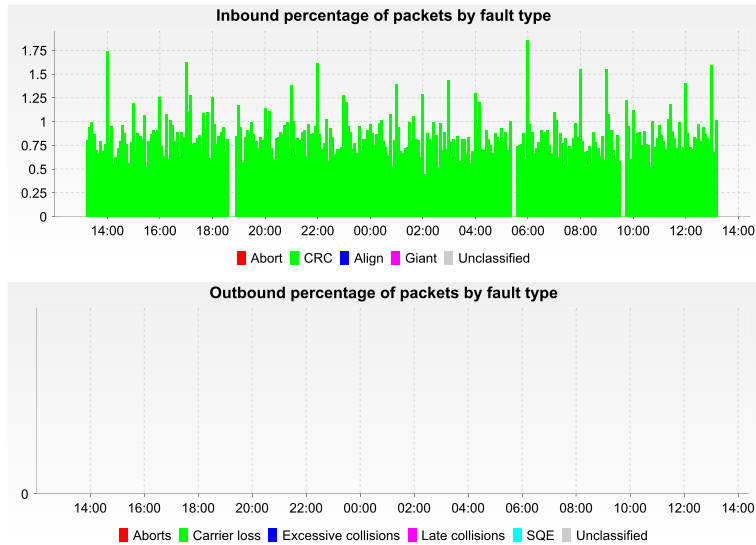


Figure 24 Port Fault Details Report

Port Fault Details Report Overview

This report includes two charts showing for the select port a breakdown of faults, specifically:

- a breakdown of inbound faults on the port by fault type, each fault type is represented as a percentage of the total number of inbound packets for the polling sample
- a breakdown of outbound faults on the port by fault type, each fault type is represented as a percentage of the total number of outbound packets for the polling sample.

Port Fault Details Report Options

Completing the Report Options allows you to select the port against which you want to run the Port Fault Details report.

Name	Description
Used saved values	Select from saved report configurations.

Table 60 Port Fault Details Report Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.
<i>Please select a port</i>	From the drop down list you can select one port to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 60 Port Fault Details Report Options

Port Fault Details Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Fault Details.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
Port	Identifies the device and port against which the report is run. It also details the inbound and outbound speed of the port.

Table 61 Port Fault Details Report Header

Port Fault Report Details

Fault Type	Description
<i>Abort</i>	Discarded frames indicate insufficient resources for their transmission.

Table 62 Port Inbound Fault Chart

Fault Type	Description
<i>CRC</i>	A cyclic redundancy check (CRC) indicates accidental changes to digital data caused by noise on the network.
<i>Align</i>	Alignment errors indicate a duplex mismatch or a physical problem on the network, for example cabling, a faulty port, hub connected. Alignment errors may also occur when a cable is first connected to the port.
<i>Giant</i>	Giant frames exceed the maximum IEEE 802.3 frame size of 1518 bytes for non-jumbo Ethernet and have a bad Frame Check Sequence (FCS). They may indicate a device with a bad NIC.
Unclassified	Port inbound fault errors outside of the designated categories.

Table 62 Port Inbound Fault Chart

Fault Type	Description
<i>Aborts</i>	Discarded frames indicate insufficient resources for their transmission.
<i>Carrier Loss</i>	Carrier loss indicates the traffic load for the port is excessive and causes the discarding of frames.
<i>Excessive Collisions</i>	An excessive collision occurs when a packet has a collision 16 times in a row. The packet is then dropped. Excessive collisions may indicate the load on the segment should be split across multiple segments, a duplex mismatch with the attached device.
<i>Late Collisions</i>	A late collision indicates two devices transmit at the same time, and neither side of the connection detects a collision as the time to propagate the signal from one end of the network to another is longer than the time to put the entire packet on the network. Late collisions may occur with incorrect cabling, a non-compliant number of hubs in the network or bad NICs.
<i>SQE</i>	A Signal Quality Error (SQE) fault confirms the detection of a collision.
Unclassified	Port outbound fault errors outside of the designated categories.

Table 63 Port Outbound Fault Chart

Port Utilization Details

Entuity Report Port Utilization Details



Description: Ports utilization percentage details over multiple timeframes

View: Regional

Printed on: 5 May 2011 16:51:50 EDT

Port: [Se0/1/0] Serial0/1/0 on 10.44.1.59 8 Mb/s

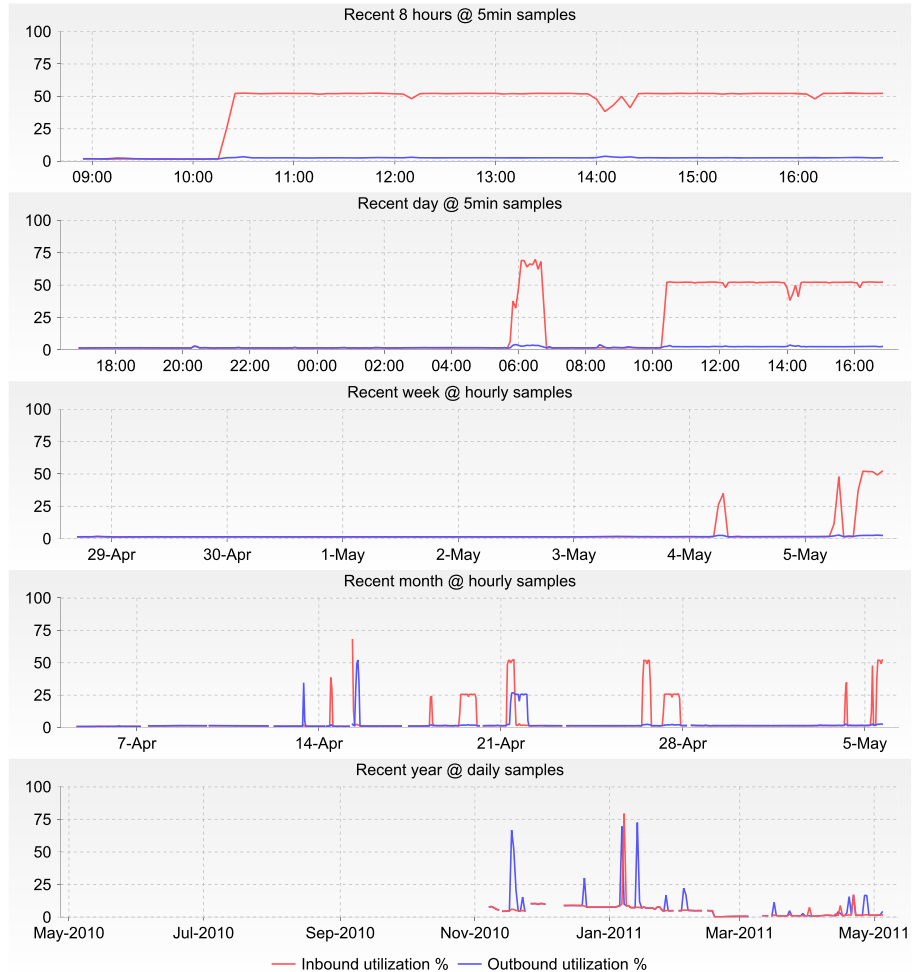


Figure 25 Port Utilization Details Report

Port Utilization Details Report Overview

This report provides five charts showing inbound and outbound utilization for the specified port. It can be called:

- By clicking **Reports > Activity Reports** and then clicking Port Utilization Details report. You must then complete the report options to set the port against which you want to run the report.
- From the Port Bandwidth Capacity Planning Trend report by clicking on *Port Description* in that report. Entuity runs the Port Utilization Details report using that port and the trend report Report Options.

Port Utilization Details Report Options

Completing the Report Options allows you to select the port against which you want to run the Port Utilization Details report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.
<i>Please select a port</i>	From the drop down list you can select one port to run the report against.

Table 64 Port Utilization Details Report Options

Port Utilization Details Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Utilization Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
Sample Period	The port utilization sample period.

Table 65 Port Utilization Details Report Header

Port Utilization Report Details

This report provides charts showing inbound and outbound utilization for the specified port over five different reporting periods. These report periods start from when the report is run, and are specifically over the previous:

- eight hours, charting the polled five minute data samples
- twenty-four hours, charting the polled five minute data samples

- seven days, charting hourly rolled up data samples
- thirty days, charting hourly rolled up data samples
- year, charting daily rolled up data samples.

Name	Description
<i>Port</i>	Description of the port and identifier of its device, e.g. host name or IP address. The port's referenced interface speed, used when Entuity calculates port inbound and outbound utilization.
<i>Inbound utilization %</i>	Inbound utilization of the port as a percentage of the referenced port speed.
<i>Outbound utilization %</i>	Outbound utilization of the port as a percentage of the referenced port speed.

Table 66 Port Utilization Details

Port Utilization Trend Report

Entuity Report

Port Utilization Trend



Description: Regression based trend prediction for port utilization

View: Regional

Over the period 00:00 on Sun Mar 06 2011 - 00:00 on Sun May 01 2011

No prime time is set for this report

Printed on: 5 May 2011 16:50:58 EDT

Device name: 10.44.1.59

Port name: [Se0/1/0] Serial0/1/0

Line speed: 8 Mbps

Inbound 6 month prediction: 4.5%

Outbound 6 month prediction: 3.8%

Inbound 12 month prediction: 7.4%

Outbound 12 month prediction: 6.0%

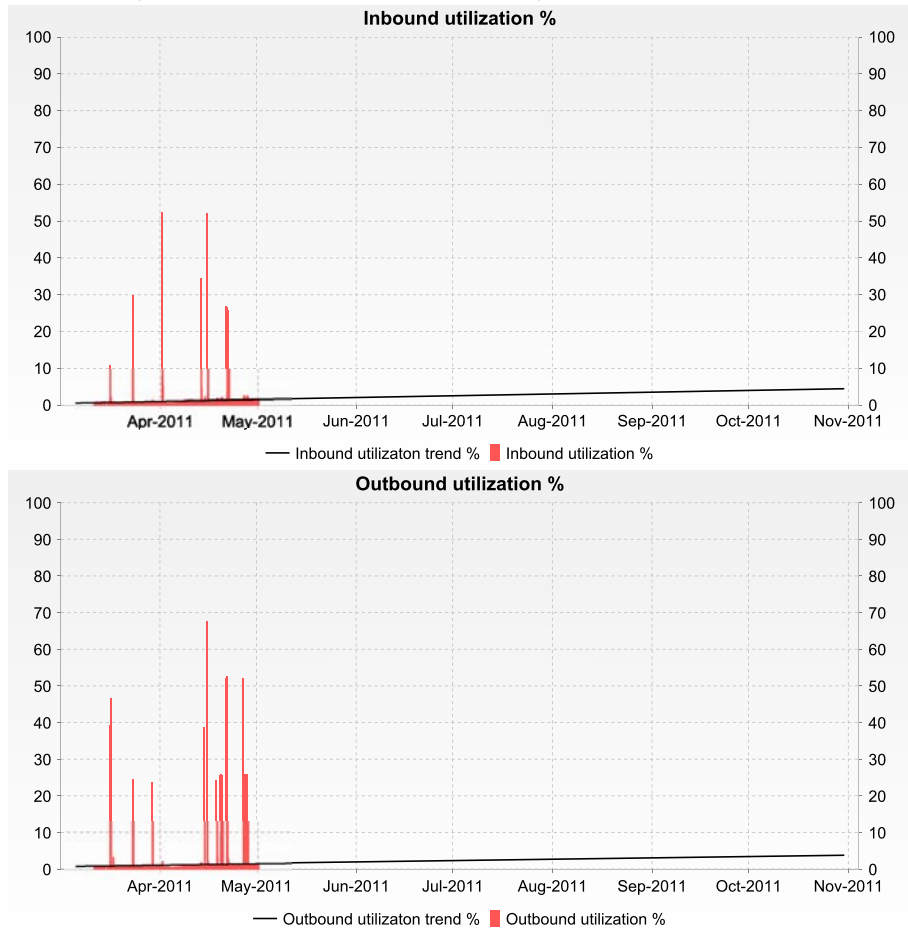


Figure 26 Port Utilization Trend Report

Port Utilization Trend Report Overview

This report graphs predictions for the next six months of port inbound and outbound utilization. Predictions are derived from applying regression analysis to the port's historical utilization data, by default for the last eight weeks, although you can configure it.

Port Utilization Trend Report Options

Completing the Report Options allows you to select the port against which you want to run the Port Trend report.

Name	Description
Used saved values	Select from saved report configurations.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.
<i>Please select a port</i>	From the drop down list you can select one port to run the report against.
<i>Report Period</i>	Period of historical utilization data Entuity uses to generate the utilization trends. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. previous eight weeks. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 67 Port Utilization Report Options

Port Utilization Chart Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Utilization Chart.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Sample Period</i>	The port utilization sample period.
<i>Reporting period</i>	Start and end dates and times over which the report is run.

Table 68 Port Utilization Chart Report Header

Name	Description
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 68 Port Utilization Chart Report Header

Port Utilization Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Port Name</i>	Description of the port.
<i>Line Speed</i>	Port speed of the line.
<i>Inbound 6 month prediction</i>	Predicted inbound utilization of the port, in six months time, as a percentage of the referenced port speed.
<i>Inbound 12 month prediction</i>	Predicted inbound utilization of the port, in twelve months time, as a percentage of the referenced port speed.
<i>Outbound 6 month prediction</i>	Predicted outbound utilization of the port, in twelve months time, as a percentage of the referenced port speed.
<i>Outbound 12 month prediction</i>	Predicted outbound utilization of the port, in twelve months time, as a percentage of the referenced port speed.
<i>Inbound utilization trend %</i>	Graphs predicted inbound utilization of the port, over the next six months, as a percentage of the referenced port speed.
<i>Inbound utilization %</i>	Inbound utilization of the port over the reporting period, as a percentage of the referenced port speed.
<i>Outbound utilization trend %</i>	Graphs predicted outbound utilization of the port, over the next six months, as a percentage of the referenced port speed.
<i>Outbound utilization %</i>	Outbound utilization of the port over the reporting period, as a percentage of the referenced port speed.

Table 69 Port Utilization Chart Details

QoS Utilization Report

Entuity Report

QoS Utilization



Printed on: 28 Jun 2011 21:26:41 BST

Description: QOS Class Utilization

View: Regional

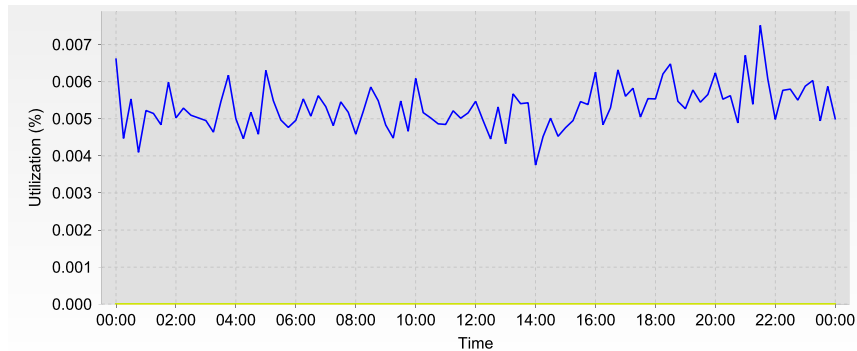
Device: 10.44.1.236

Port: [Fa0/0] FastEthernet0/0

Over the period 00:00 on Mon Jun 27 2011 - 00:00 on Tue Jun 28 2011

No prime time is set for this report

Pre Policy



Class Name / color	Description	Min (%)	Max (%)	Average (%)
AutoQoS-Policy- UnTrust (Out)	Match protocol rtp audio	0.00	0.00	0.00
AutoQoS-VoIP-RTP- UnTrust	Match access-group name AutoQoS-VoIP-RTCP Queue - 70% (70 Mb/s)	27/06/11 00:00	27/06/11 00:00	
AutoQoS-Policy- UnTrust (Out)	Match access-group name	0.00	0.00	0.00
AutoQoS-VoIP-Control- UnTrust	AutoQoS-VoIP-Control Queue - 5% (5 Mb/s)	27/06/11 00:00	27/06/11 00:00	
AutoQoS-Policy- UnTrust (Out)	Match ip dscp ef (46)	0.00	0.00	0.00
AutoQoS-VoIP-Remark	Match ip dscp cs3 (24) Match ip dscp af31 (26) 100 MB/s	27/06/11 00:00	27/06/11 00:00	
AutoQoS-Policy- UnTrust (Out)	Match any	0.00	0.01	0.01
class-default	Queue - fair weighted (100 Mb/s)	27/06/11 14:00	27/06/11 21:30	

Figure 27 QoS Utilization Report

QoS Utilization Overview

Delivers utilization graphs across policy map and its classes with pre-policy and post-policy utilization metrics.

QoS Utilization Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Device</i>	Select the device on which you want to run the report.
Port	Port with QoS enabled on the device
Graph Units	Chart used to represent data Percent, KB/s, MB/s.
<i>Report period</i>	Period over which the report applies, by default seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 70 QoS Utilization Options

QoS Utilization Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.

Table 71 QoS Utilization Header

QoS Utilization

Report includes charts graphing

- pre-policy utilization by class
- post-policy utilization by class
- for each class its pre and post policy utilization.

Routing Summary Report

Entuity Report Routing Summary



Description: Summary of devices providing layer 3 routing services
View: My Network
Devices: 1
Over the period 00:00 on Thu Oct 23 2014 - 00:00 on Tue Oct 28 2014
No prime time is set for this report

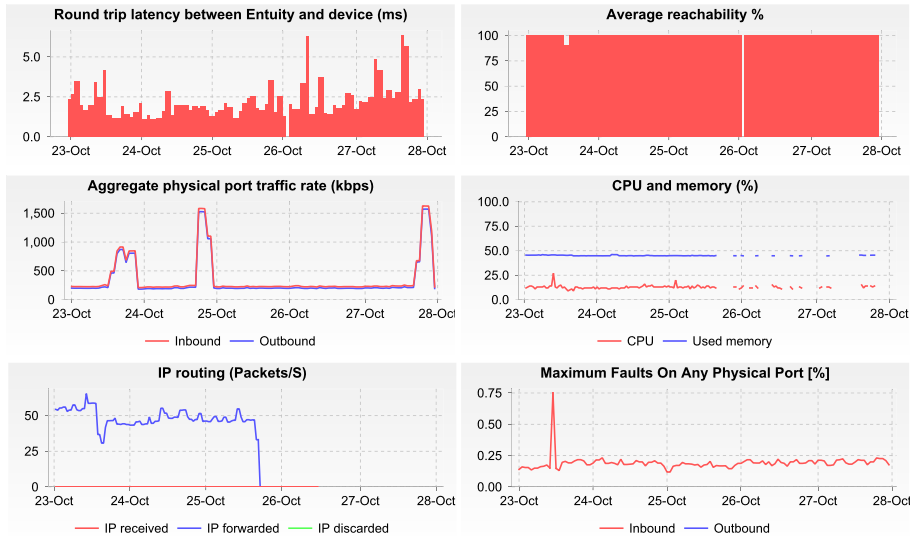
Printed on: 28 Oct 2014 10:58:33 GMT

Name: top3550

sysName: top3550
Location: Server Room - Cabinet A
Manufacturer: cisco
Serial number: CAT0827N2GV
Last reboot: Thu Oct 23 13:26:52 BST 2014
Version: 12.2(44)SE6
Management IP: 10.44.1.42
Model: WS-C3550-24-EMI
Polling status: Polling on ENTLPNPPVM01
System descr: Cisco IOS Software, C3550 Software (C3550-IPSERVICESK9-M), Version 12.2(44)SE6, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2009

Uptime %: 100.00
Unknown uptime: 0h 0m 0s
Outages: 0

Total ports (excluding virtual ports): 26
Spare ports (excluding virtual ports): 0



Route peering			
BGP local AS:	0	OSPF admin status:	
BGP identifier:	0	OSPF router ID:	
BGP peer count:	0	OSPF AS border router:	
BGP peer estab. state transitions:	0	OSPF area border router:	
EIGRP peer count:	0	OSPF TOS support:	
		OSPF peer count:	0
		OSPF peer state changes:	0

Figure 28 Routing Summary Report

Routing Summary Report Overview

Generates a report on all the routers for a view. It presents a summary of each router's performance during the reporting period, measuring performance by Reachability, CPU

utilization, free memory and IP packet throughput. A breakdown of the router's spare ports by LAN, WAN and others is also included.

Routing Summary Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device, or All Devices , to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 72 Routing Summary Report Options

Routing Summary Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Routing Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Devices</i>	The number of devices included to the report.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 73 Routing Summary Report Header

Routing Summary Report Details

Name	Description
<i>sysName</i>	Device system name or where not available the IP address.
<i>Location</i>	(SysLocation), or where not available it is left blank.
<i>Manufacturer</i>	Router manufacturer.
<i>Serial Number</i>	Router serial number.
<i>Model</i>	Device model.
<i>Version</i>	Device version number.
<i>Management IP</i>	IP address Entuity uses to poll the device.
<i>Last reboot</i>	Time of the last device reboot.
<i>Polling status</i>	Status of Entuity SNMP polling of the device, i.e. Polling, Non-Polling .
<i>System descr</i>	System description, which for a Cisco device is a parsed sysDescr with model, version and serial number.
<i>Uptime%</i>	The amount of time the router is known to be up, as a percentage of the reporting period.
<i>Unknown uptime</i>	The amount of time Entuity estimates the device was up when Entuity could not poll for its true state.
<i>Outages</i>	Number of outages on the device during the reporting period.
<i>Total Ports (excluding virtual ports)</i>	Number of ports on the device, excluding virtual port.
<i>Spare Ports (excluding virtual ports)</i>	Number of spare ports on the device, excluding virtual port.
<i>Round Trip Latency between Entuity and the device</i>	Round trip latency between Entuity server and the host, in milliseconds.
<i>Average Reachability %</i>	The amount of time the device responds to ping as a percentage of the reporting period.
<i>Aggregate physical port traffic rate</i>	Aggregated physical inbound and outbound traffic on the port.
<i>CPU and memory</i>	Graph charts router CPU utilization and memory usage over the reporting period.
<i>IP routing</i>	IP routing (Packet/S) graph charts router IP packet thrupt in packets per second over the report period. Three measures are used, inbound packets, forwarded packets and discarded packets.
<i>Port Faults</i>	Graph charts number of faults on infrastructure ports.

Table 74 Routing Summary Details

Name	Description
<i>BGP local AS</i>	Local AS of the device.

Table 75 Route Peering Details

Name	Description
<i>BGP identifier</i>	Each router running BGP must have a BGP identifier. This identifier is included in the BGP identifier field of open messages, which are sent between two BGP peers when establishing a BGP session
<i>BGP peer count</i>	Number of BGP peers.
<i>OSPF router ID</i>	The unique identifier for the router as defined by the ospf router-id command or the address of the loopback 0 interface.
<i>OSPF admin status</i>	The status of an OSPF interface defines whether routes and/or OSPF protocol packets are propagated over the interface. Status may be active, passive, or off.
<i>OSPF AS border router</i>	Identifies the router as an Autonomous System Border Router, which acts as a gateway between OSPF and external routes. It is these routers that propagate routes to external networks.
<i>OSPF area border router</i>	Identifies the router as one with interfaces in different areas but within the same autonomous system. By collecting mapping information from these area this router can calculate the shortest distances between points.
<i>OSPF TOS support</i>	Indicates whether the router supports TOS.
<i>OSPF peer count</i>	Number of OSPF peers.
<i>BGP peer estab. state transitions</i>	BGP peer has one of six states: Idle, Connect, Active, OpenSent, OpenConfirm, and Established. This attribute indicates the number of state transitions.
<i>OSPF peer state changes</i>	OSPF peer has one of eight states. This attribute indicates the number of state transitions.
<i>EIGRP peer count</i>	Number of EIGRP peers.

Table 75 Route Peering Details

Switching Summary Report

Entuity Report Switching Summary



Description: Summary of devices providing layer 2 switching services

View: My Network

Devices: 1

Over the period 00:00 on Thu Oct 23 2014 - 00:00 on Tue Oct 28 2014

No prime time is set for this report

Printed on: 28 Oct 2014 10:53:37 GMT

Name: 10.66.100.188

sysName: 10.66.100.188

Location: Simulator

Manufacturer: cisco

Serial number: FOC0847X1K6

Model: C2950G-48

Version: 12.1(22)EA1

Management IP: 10.66.100.188

Last reboot: Thu Oct 23 17:56:13 BST 2014

Uptime %: 96.50

Unknown uptime: 4h 14m 6s

Outages: 1

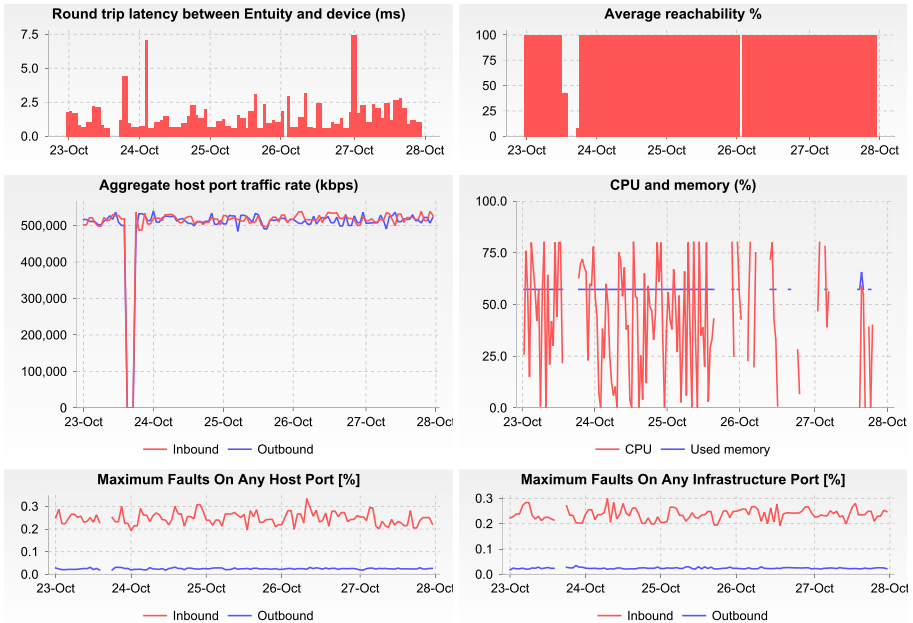
Total/Host ports (excluding virtual ports): 50 / 49

Trunk/Uplink ports (including virtual ports): 1 / 1

Spare ports (excluding virtual ports): 0

Polling status: Polling on ENTLPVPM01

System descr: Cisco Internetwork Operating System Software .IOS (tm) C2950 Software (C2950-I6Q4L2-M), Version 12.1(22)EA1, RELEASE SOFTWARE (



VLAN	Port count	Average inbound traffic rate (kbps)	Average outbound traffic rate (kbps)
1	3	33363	33070
511	46	471222	469809
224	1	33490	33380

Type	Speed	Infrastructure connection details
------	-------	-----------------------------------

Trunk 100M [Fa0/48]FastEthernet0/48 ()

Figure 29 Switching Summary Report

Switching Summary Report Overview

Switching Summary reports detail information for one or more selected switches within a selected view.

Switching Summary Report Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device, or All Devices , to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 76 Switching Summary Report Options

Switching Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Switching Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Devices</i>	The devices included to the report.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 77 Switching Summary Report Header

Switching Summary Report Details

Name	Description
<i>sysName</i>	Switch system name or where not available the IP address.
<i>Location</i>	(SysLocation), or where not available it is left blank.
<i>Manufacturer</i>	Device manufacturer.
<i>Serial Number</i>	Device serial number.
<i>Model</i>	Device model.
<i>Version</i>	Device version number.
<i>Management IP</i>	IP address Entuity uses to poll the device.
<i>Last reboot</i>	Time of the last device reboot.
<i>Polling status</i>	Status of Entuity SNMP polling of the device, i.e. Polling, Non-Polling .
<i>System descr</i>	System description, which for a Cisco device is a parsed sysDescr with model, version and serial number.
<i>Uptime%</i>	The amount of time the switch is known to be up, as a percentage of the reporting period.
<i>Unknown uptime</i>	The amount of time Entuity estimates the device was up when Entuity could not poll for its true state.
<i>Outages</i>	Number of outages on the device during the reporting period.
<i>Total/Host Ports (excluding virtual ports)</i>	Number of ports on the device, excluding virtual port.
<i>Trunk/Uplink Ports (including virtual ports)</i>	Number of infrastructure ports on the device, including virtual port.
<i>Spare Ports (excluding virtual ports)</i>	Number of spare ports on the device, excluding virtual port.
<i>Round Trip Latency between Entuity and the device</i>	Round trip latency between Entuity server and the host, in milliseconds.
<i>Average Reachability %</i>	The amount of time the device responds to ping as a percentage of the reporting period.
<i>Aggregate host port traffic</i>	Aggregated inbound and outbound traffic on the host port.
<i>CPU and memory</i>	Graph charts router CPU utilization and memory usage over the reporting period.
<i>Host Port Faults</i>	Number of faults on the host port.
<i>Infrastructure Port Faults</i>	Number of faults on infrastructure ports.

Table 78 Switching Summary Report Details

Name	Description
<i>Type</i>	Infrastructure port type, i.e. trunk, uplink.
<i>Speed</i>	The port's referenced interface speed, used for example, when Entuity calculates port utilization. For use in Entuity your System Administrator can amend the port interface speed.
<i>Description</i>	Description of the device and its interface.

Table 79 Infrastructure Connection Details

Top-N Devices Reports

Entuity Report

Top-N Devices



Printed on: 21 Nov 2012 11:46:13 GMT

Description: Top 10 devices over the previous hour

View: Regional

Server: jdiamondnj

Traffic Transfer Rate

Device	Total Traffic (b/s)
10.66.23.77	395.52 Mb/s
10.66.23.61	209.86 Mb/s
lonsw03	26.96 Mb/s
lonsw01	14.06 Mb/s
lonsw02	13.12 Mb/s
bottom2960	2.75 Mb/s
subzero	2.6 Mb/s
lonsolfs02	1.21 Mb/s
lon-dev-tst06	1.14 Mb/s
bottom3550	834.39 Kb/s

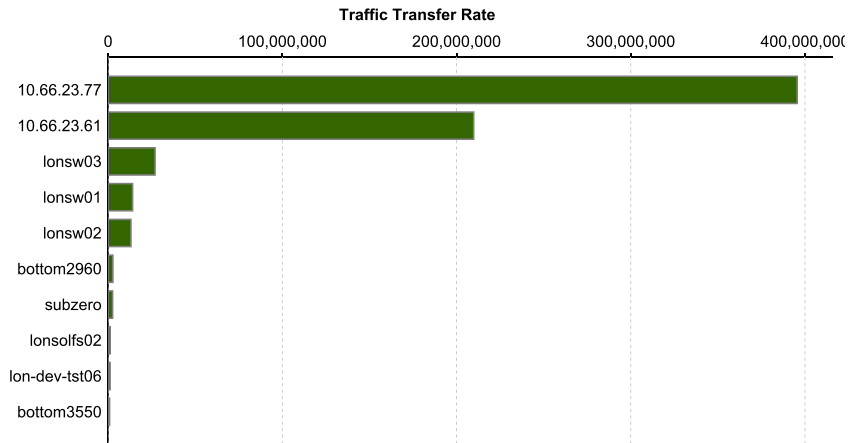


Figure 30 Top-N Devices

Top-N Devices Report Overview

This report identifies the top N, by default ten, devices against these metrics:

- Traffic Rate
- CPU Utilization
- Memory Utilization
- Backplane Utilization

- Buffer Utilization.

For each metric the Top N devices are included to a table, and if selected, their performance on the metric is graphed.

For each report you can specify:

- a server or All servers to run the report against.
- View to run the report against
- maximum number of devices to include to the report
- whether to graph the data.

Top-N Devices Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>TopN</i>	Number of devices included to the report.
<i>Show Charts</i>	Select to include the graphs for each metric.

Table 80 Top-N Devices Report Options

Top-N Devices Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Routing Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>TopN</i>	Number of devices included to the report.

Table 81 Top-N Devices Report Header

Top-N Devices Report Details

The Top-N Traffic Rate table displays the ten devices, by default, with the highest traffic throughput during the reporting period. Each row in the table identifies a device and its traffic transfer rate. The optional chart graphs the traffic transfer rate.

Name	Description
<i>Device</i>	Device name or where not available the IP address.
<i>Total Traffic (b/s)</i>	Total inbound and outbound traffic on the device over the reporting period.

Table 82 Top-N Traffic Rate

The CPU Utilization table displays the ten devices, by default, with the highest CPU utilization during the reporting period. Each row in the table details a device and its utilization. The optional chart graphs CPU utilization.

Name	Description
<i>Device</i>	Device name or where not available the IP address.
<i>System Name</i>	The device system name. Depending upon the name length and Entuity hostname configuration this may be the fully qualified domain name.
<i>IP Address</i>	IP address Entuity uses to manage the device.
<i>Utilization % (Avg)</i>	Mean average CPU utilization over the reporting period.
<i>Utilization % (Peak)</i>	Maximum CPU utilization polled over the reporting period.

Table 83 Top-N CPU Utilization

The Memory Utilization table displays the ten devices with the highest memory utilization during the reporting period. Each row in the table details a device and its utilization. The optional chart graphs Memory Utilization.

Name	Description
<i>Device</i>	Device name or where not available the IP address.
<i>System Name</i>	The device system name. Depending upon the name length and Entuity hostname configuration this may be the fully qualified domain name.
<i>IP Address</i>	IP address Entuity uses to manage the device.
<i>Utilization % (Avg)</i>	Mean average memory utilization over the reporting period.
<i>Utilization % (Peak)</i>	Maximum memory utilization polled over the reporting period.

Table 84 Top-N Memory Utilization

The Backplane Utilization table displays the ten devices with the highest backplane utilization during the reporting period. Each row in the table details a device and its utilization. The optional chart graphs Backplane Utilization.

Name	Description
<i>Device</i>	Device name or where not available the IP address.

Table 85 Top-N Backplane Utilization

Name	Description
<i>System Name</i>	The device system name. Depending upon the name length and Entuity hostname configuration this may be the fully qualified domain name.
<i>IP Address</i>	IP address Entuity uses to manage the device.
<i>Utilization % (Avg)</i>	Mean average backplane utilization over the reporting period.
<i>Utilization % (Peak)</i>	Maximum backplane utilization polled over the reporting period.

Table 85 Top-N Backplane Utilization

The **Buffer Utilization** table displays the ten devices with the highest buffer utilization during the reporting period. Each row in the table details a device and its utilization. The optional chart graphs Buffer Utilization.

Name	Description
<i>Device</i>	Device name or where not available the IP address.
<i>System Name</i>	The device system name. Depending upon the name length and Entuity hostname configuration this may be the fully qualified domain name.
<i>IP Address</i>	IP address Entuity uses to manage the device.
<i>Utilization % (Avg)</i>	Mean average buffer utilization over the reporting period.
<i>Utilization % (Peak)</i>	Maximum buffer utilization polled over the reporting period.

Table 86 Top-N Buffer Utilization

Top-N Port Error Rates

Entuity Report

Top-N Port Error Rates



Printed on: 21 Nov 2012 11:49:22 GMT

Description: Top 10 port error rates over previous hour

View: Regional

Server: jdiamondnj

Transmit Errors

Device	Port	Outbound Fault
nysw01	[Et0/1]	50.00%
10.66.23.77	[Lp/4 Eth100/0]	49.49%
10.66.23.61	[00117]	44.05%
10.66.23.77	[AtmMpe/92]	43.73%
10.66.23.61	[00058]	43.32%
10.66.23.61	[00027]	39.17%
10.66.23.61	[00135]	39.06%
10.66.23.61	[00050]	38.78%
10.66.23.61	[00001]	37.91%
10.66.23.61	[00134]	37.76%

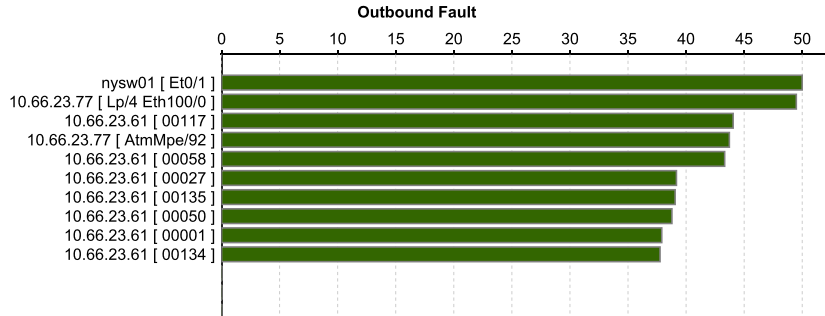


Figure 31 Top-N Port Error Rates

Top-N Port Error Report Overview

The report identifies the ports with the highest transmit errors and packet corruptions during the reporting period rate. You can specify:

- a server or All servers to run the report against.
- View to run the report against.
- number of ports to include against each metric.
- whether to graph the data.

Top-N Error Rates Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>TopN</i>	Number of devices included to the report.
<i>Show Charts</i>	Select to include the Error Rate graphs.

Table 87 Top-N Error Rates Report Options

Top-N Error Rates Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Top-N Error Rates.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Server</i>	Entuity server on which the report is run.

Table 88 Top-N Port Error Rates Report Header

Top-N Port Error Rates Report Details

Name	Description
<i>Device</i>	Resolved name or management IP address of the device.
<i>Port</i>	Port identifier.
<i>Outbound Fault</i>	The number of transmit errors as a percentage of the total number of outbound packets during the reporting period (by default the previous hour).

Table 89 Top-N Transmit Errors Report

Name	Description
<i>Device</i>	Resolved name or management IP address of the device.
<i>Port</i>	Port identifier.

Table 90 Top-N Packet Corruption Report

Name	Description
<i>Inbound Fault</i>	The number of inbound errors as a percentage of the total number of inbound packets during the reporting period (by default the previous hour).

Table 90 Top-N Packet Corruption Report

Top-N Ports Report

Entuity Report

Top-N Ports



Printed on: 21 Nov 2012 11:51:24 GMT
Description: Top 10 ports over previous hour
View: Regional

Server: jdiamondnj

Inbound Utilization

Device	Port	Utilization (%)
10.66.23.77	[La/40]	48.9%
10.66.23.77	[AtmMpe/91]	46.4%
10.66.23.77	[Lp/2 E1/1]	44.0%
10.66.23.77	[Ppp/21]	42.8%
10.66.23.77	[Lp/4 Eth100/1]	41.2%
10.66.23.61	[00212]	40.9%
10.66.23.77	[Ppp/20]	39.8%
10.66.23.77	[Lp/2 E1/1 Chan/0]	38.4%
10.66.23.77	[Lp/3 Eth100/0]	37.3%
10.66.23.61	[00112]	34.5%

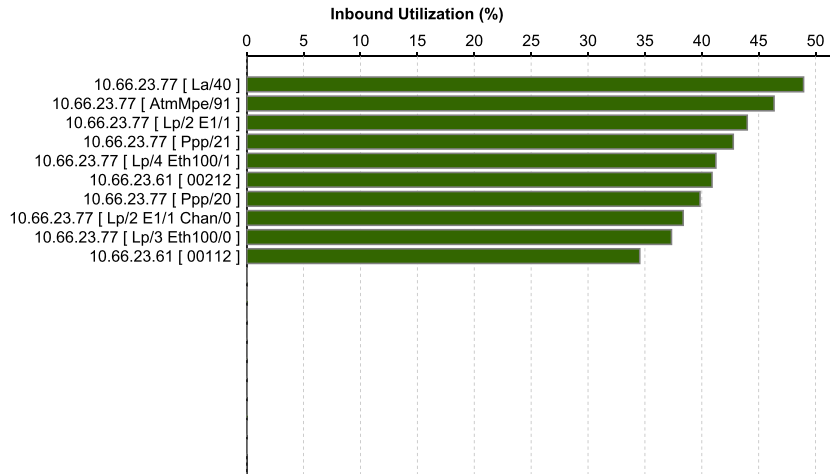


Figure 32 Top-N Ports Report

Top-N Ports Report Overview

This report identifies the top N, by default ten, ports against these metrics:

- Inbound Utilization
- Outbound Utilization
- Top Talkers

- Top Listeners.

For each report you can specify:

- a server or All servers to run the report against.
- View to run the report against.
- number of ports to include against each metric.
- whether to graph the data.

Top-N Ports Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>TopN</i>	Number of devices included to the report.
<i>Show Charts</i>	Select to include the Error Rate graph.

Table 91 Top-N Ports Report Options

Top-N Ports Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Top-N Ports.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Server</i>	Name of the Entuity server collecting the Top-N data.

Table 92 Top-N Ports Report Header

Top-N Ports Report Details

The Inbound Utilization table displays the ten ports, by default, with the highest inbound utilization during the reporting period. Each row in the table details a port and its utilization. The optional chart graphs inbound utilization.

Name	Description
<i>Device</i>	Device name or where not available the IP address of the port.
<i>Port</i>	Port name.
<i>Utilization % (Avg)</i>	Mean average inbound utilization over the reporting period.
<i>Utilization % (Peak)</i>	Maximum inbound utilization polled over the reporting period.

Table 93 Top-N Inbound Utilization

The Outbound Utilization table displays the ten ports, by default, with the highest outbound utilization during the reporting period. Each row in the table details a port and its utilization. The optional chart graphs outbound utilization.

Name	Description
<i>Device</i>	Device name or where not available the IP address of the port.
<i>Port</i>	Port name.
<i>Utilization % (Avg)</i>	Mean average outbound utilization over the reporting period.
<i>Utilization % (Peak)</i>	Maximum outbound utilization polled over the reporting period.

Table 94 Top-N Outbound Utilization

The Top Talker table displays the ten ports, by default, with the highest outbound traffic during the reporting period. Each row in the table details a port and its volume of outbound traffic. The optional chart graphs outbound traffic.

Name	Description
<i>Device</i>	Device name or where not available the IP address of the port.
<i>Port</i>	Port name.
<i>Transferred (b/s)</i>	The total volume of traffic from the port, during the previous hour, by default.

Table 95 Top-N Top Talker

The Top Listeners table displays the ten ports, by default, with the highest inbound traffic during the reporting period. Each row in the table details a port and its volume of inbound traffic. The optional chart graphs inbound traffic.

Name	Description
<i>Device</i>	Device name or where not available the IP address of the port.
<i>Port</i>	Port name.
<i>Transferred (b/s)</i>	The total volume of traffic received by the port, during the previous hour, by default.

Table 96 Top-N Top Listeners

Wireless Controller Summary Report

Entuity Report

Wireless Controller Summary



Description: Summary of Wireless Controllers and their associated APs

View: Regional

Controllers: 2

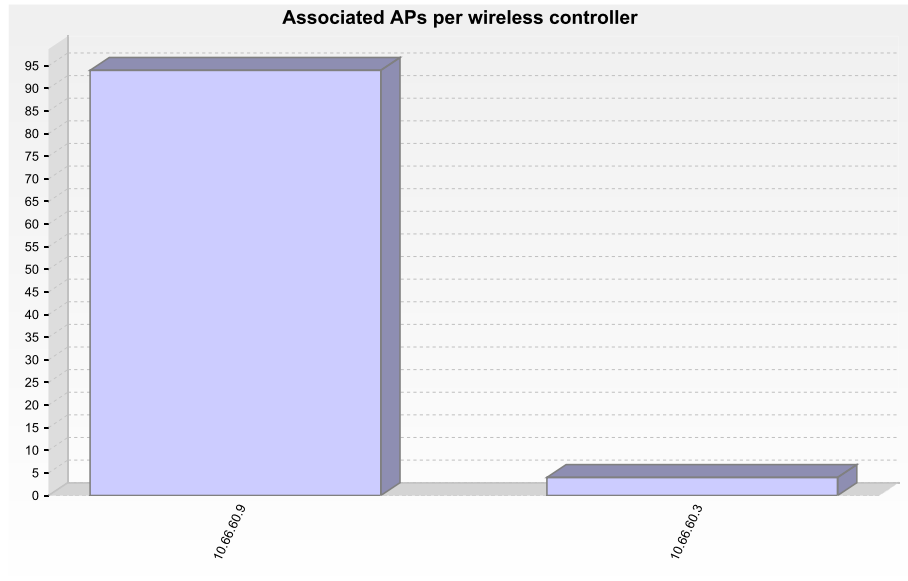
Over the period 11:00 on Tues Nov 20 2012 - 11:00 on Wed Nov 21 2012

No prime time is set for this report

Printed on: 21 Nov 2012 11:59:16 GMT

Wireless controller model	Manufacturer	Count
65	Aruba Networks Inc	1
MX-2800	Trapeze Networks Inc	1

Access point model	Count
70	4
"MP-422"	1
"MP-432"	93



Controller name	Model	Serial number	IP	Location	Associated APs
10.66.60.9	MX-2800	"0821600001"	10.66.60.9		94
10.66.60.3	65	A20001381	10.66.60.3	Brotman Hall	4

Figure 33 Wireless Controller Summary Report

Wireless Controller Summary Report Overview

Entuity Wireless Controller Summary is useful for:

- cataloging for periodic reconciliation for hardware maintenance contract verification purposes
- Software version consistency checking

- WLAN access permissions and restrictions per-antenna.

Wireless Controller Summary Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one or All Devices device to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 97 Wireless Controller Summary Report Options

Wireless Controller Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Wireless Controller Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Controllers</i>	Number of devices included to the report.
<i>Reporting period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 98 Wireless Controller Summary Report Header

Wireless Controller Summary Report Details

This report includes a:

- table listing the number of each wireless controller models.
- table listing the number of each wireless access point models.
- chart graphing total number of wireless access points per wireless controller.
- chart graphing total wireless connected host count during the reporting period.

- a section for each wireless controller that includes:
 - wireless controller details
 - chart graphing number of APs with similar host counts as measured by mean average and peak number of AP hosts during the reporting period.
 - table where each row identifies an access point associated with the wireless controller.

Name	Description
<i>Wireless Controller Model</i>	Wireless controller model.
<i>Manufacturer</i>	Wireless controller manufacturer.
<i>Count</i>	Number of access points associated with the wireless controller. These APs are detailed in the subsequent table.

Table 99 Wireless Controller Summary

Name	Description
<i>Access point model</i>	Access point name.
Count	The number of hosts attached to an antenna associated with the AP.

Table 100 Associated AP's per Wireless Controller

Name	Description
<i>Controller name</i>	Access point name.
<i>Model</i>	Wireless controller model.
<i>Serial Number</i>	Wireless controller serial number.
<i>IP</i>	IP address associated with the wireless controller.
Location	Location of the wireless controller.
Associated APs	Number of APs associated with the wireless controller

Table 101 Wireless Controller Details

Table details wireless attached hosts, and the graph charts number of APs by similar host count.

Name	Description
<i>Access point name</i>	Access point name.
<i>Serial Number</i>	Wireless controller serial number.
<i>Model</i>	Wireless controller model.
<i>IP</i>	IP address associated with the access point.
Host Count Peak AP	The peak count over the reporting period of hosts attached to this AP.
Host Count Mean AP	The mean average over the reporting period of hosts attached to this AP.

Table 102 Wireless Attached Hosts

Name	Description
Host Count Peak Antenna	The peak number of hosts attached to an antenna associated with the AP.

Table 102 Wireless Attached Hosts

3 Administrative Reports

Administrative reports allow you to investigate Entuity performance, for example to identify devices not responding to Entuity polling, or when objects were first taken under Entuity management. You can also view the health of the server through a summary report, and polling diagnostics report.

Running Administrative Reports

You can run Administrative reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports home page.
- 2) Click **Administrative Reports**. Entuity displays the list of available reports.

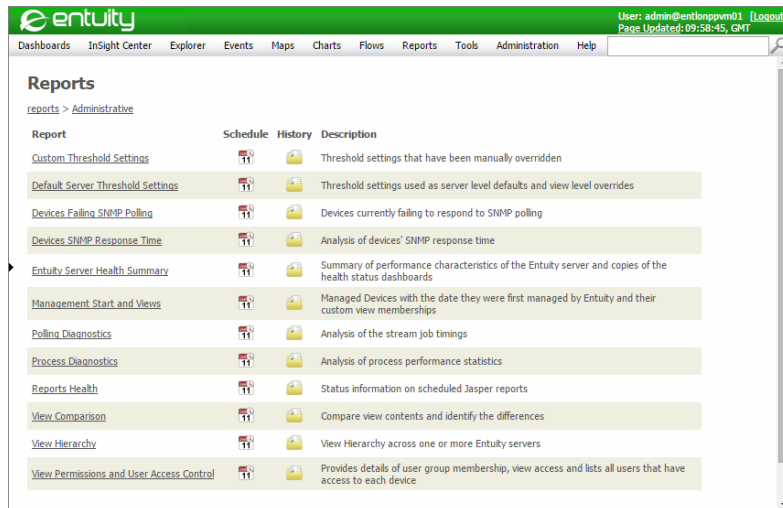


Figure 34 Administrative Reports

Custom Thresholds Report

Entuity Report



Custom Thresholds

Printed on: 18 May 2015 16:09:48 BST

Description: Threshold settings that have been changed from their default values

View: All Objects

Device: --AllDevices--

Cisco-CIMC		(ENTLONPPVM01)
Cisco-CIMC: High Total Hits Rate		1.0
Cisco-CIMC: High Cluster Current Users		5.0
Cisco-CIMC: High Current Users		5.0

Cisco-UCS6120		(ENTLONPPVM01)
PowerSupply-2 Sensor-1*: High Temperature		20.0

Figure 35 Custom Thresholds Report

Custom Thresholds Report Overview

This report identifies devices with custom thresholds. Each device identified includes a hyperlink to the device Summary page.

Custom Thresholds Report Options

Report Options allow you to configure the parameters of the report, focusing it on the views in which you are most interested.

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	View against which other view(s) in the report are compared.
<i>Please select a device</i>	The content of this view is compared against the content of <i>First View</i> .

Table 103 Custom Thresholds Report Options

Custom Thresholds Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Differences between views.
<i>Printed on</i>	Date and time the report was generated.

Table 104 Custom Thresholds Report Header

Name	Description
<i>First View</i>	View against which other view(s) in the report are compared.
<i>Second View</i>	The content of this view is compared against the content of <i>First View</i> .
<i>Third View</i>	The content of this view is compared against the content of <i>First View</i> .

Table 104 Custom Thresholds Report Header

Custom Thresholds Report Details

Name	Description
<i>Title</i>	The title of the table identifies the context of the list of devices, for example, Devices in Miami but not Madrid. Where a view does not contain devices that are not found in other views the report does not generate a comparison table.

Table 105 Custom Thresholds Report

Default Server Threshold Settings Report

Entuity Report



Default Server Level Thresholds

Printed on: 18 May 2015 16:28:55 BST

Description: Threshold settings used as server level defaults and view level overrides

ENTLONPPVM01			
Threshold description	Default value	Enabled by default	Current setting
Access Control	500.0	Disabled	400.0
AP Antenna Attached Host Changes Per Hour High Threshold	256.0	Enabled	
AP Antenna Attached Host Count High	256.0	Enabled	
AP Antenna Attached Host Count Low	0.0	Disabled	
AP Antenna Attached Host Count Low Threshold	0.0	Disabled	
AP Antenna Frequent Channel Change Threshold	3.0	Enabled	
AP Antenna Frequent Power Change Threshold	3.0	Enabled	
AP Attached Host Changes Per Hour High Threshold	512.0	Enabled	
AP Attached Host Changes Per Hour Low Threshold	0.0	Disabled	
AP Attached Host Count High	512.0	Enabled	
AP Attached Host Count Low	0.0	Disabled	
ATM VCC High Inbound Utilization	80.0	Enabled	
ATM VCC High Outbound Utilization	80.0	Enabled	
ATM VCC Low Inbound Utilization	0.0	Enabled	
ATM VCC Low Outbound Utilization	0.0	Enabled	
Backplane Bus A High Utilization	50.0	Enabled	
Backplane Bus B High Utilization	50.0	Enabled	
Backplane Bus C High Utilization	50.0	Enabled	
Backplane System Bus High Utilization	50.0	Enabled	
BladeCenter Blade +1.5V Rail High Voltage	1575.0	Enabled	
BladeCenter Blade +1.5V Rail Low Voltage	1425.0	Enabled	
BladeCenter Blade +1.25V Rail High Voltage	1313.0	Enabled	
BladeCenter Blade +1.25V Rail Low Voltage	1188.0	Enabled	
BladeCenter Blade +2.5V Rail High Voltage	2625.0	Enabled	
BladeCenter Blade +2.5V Rail Low Voltage	2375.0	Enabled	
BladeCenter Blade +3.3V Rail High Voltage	3465.0	Enabled	
BladeCenter Blade +3.3V Rail Low Voltage	3135.0	Enabled	
BladeCenter Blade +5V Rail High Voltage	5250.0	Enabled	
BladeCenter Blade +5V Rail Low Voltage	4750.0	Enabled	
BladeCenter Blade +12V Rail High Voltage	12600.0	Enabled	
BladeCenter Blade +12V Rail Low Voltage	11400.0	Enabled	
BladeCenter Blower Slow Speed	50.0	Enabled	
BladeCenter Chassis +1.8V Rail High	1890.0	Enabled	
BladeCenter Chassis +1.8V Rail Low	1710.0	Enabled	
BladeCenter Chassis +2.5V Rail High	2625.0	Enabled	
BladeCenter Chassis +2.5V Rail Low	2375.0	Enabled	
BladeCenter Chassis +3.3V Rail High	3465.0	Enabled	
BladeCenter Chassis +3.3V Rail Low	3135.0	Enabled	
BladeCenter Chassis +5V Rail High	5250.0	Enabled	
BladeCenter Chassis +5V Rail Low	4750.0	Enabled	
BladeCenter Chassis +12V Rail High	12600.0	Enabled	
BladeCenter Chassis +12V Rail Low	11400.0	Enabled	
BladeCenter Chassis -5V Rail High	5250.0	Enabled	
BladeCenter Chassis -5V Rail Low	4750.0	Enabled	
Class Bit Drop Rate High Threshold	100000.0	Disabled	
Class Bit Rate High Threshold	500000.0	Disabled	
Class Drop Packet Hourly Rate (Buffer Shortage) High Threshold	10.0	Disabled	
CPU1	50.0	Enabled	
CPU2	50.0	Enabled	
CUCM Process CPU Usage (%)	80.0	Enabled	
CUCM Process Memory Usage (%)	20.0	Enabled	
DASD1	50.0	Enabled	
Device Average CPU Utilization Critical	90.0	Enabled	95.0
Device Average CPU Utilization High	80.0	Enabled	85.0
Device Average Memory Usage Critical	90.0	Enabled	
Device Average Memory Usage High	80.0	Enabled	
Device High Active Sessions	1000.0	Disabled	
Device High Messages Received	1000.0	Disabled	
Device Low Disk Space (%)	90.0	Disabled	
Device Reachability	90.0	Disabled	
Falling Latency	30.0	Disabled	
Firewall High Accepted Packet Rate	1000.0	Disabled	
Firewall High Current Connections	1000.0	Disabled	
Firewall High Dropped Packet Rate	1000.0	Disabled	

Figure 36 Default Server Threshold Settings Report

Default Server Threshold Settings Report Overview

This report identifies by selected Entuity server the state of each threshold setting (whether enabled or disabled), its default threshold value and if set any custom threshold value.

Default Server Threshold Settings Report Options

Report Options allow you to configure the parameters of the report, focusing it on the views in which you are most interested.

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 106 Default Server Threshold Settings Report Options

Default Server Threshold Settings Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Differences between views.
<i>Printed on</i>	Date and time the report was generated.
<i>Server</i>	Entuity server.

Table 107 Default Server Threshold Settings Report Header

Default Server Threshold Settings Report Details

Name	Description
<i>Threshold description</i>	Name of the threshold.
<i>Default value</i>	Threshold factory default.
<i>Enabled by default</i>	Indicates whether the factory default is for the threshold to be enabled or disabled.
<i>Current Setting</i>	Only lists a value when the threshold has a server or view level override.

Table 108 Default Server Threshold Settings Report

Devices Failing SNMP Polling Report

Entuity Report

Devices Currently Failing to Respond to SNMP Polling



Printed on: 8 Oct 2009 20:53:41 BST

Description: Devices that failed their most recent SNMP poll for sysUpTime

View: Regional

Device name	IP address	Device type	Manufacturer / Model	Last successful SNMP poll	Reachable
sam2150	10.44.1.60	Ethernet Switch	Hewlett Packard / A.03.15	Fri Sep 18 18:58:00 2009	No

Figure 37 Devices Failing SNMP Polling Report

Devices Failing SNMP Polling Report Overview

This report details devices currently failing to respond to SNMP polling and whether they are ping reachable.

Devices Failing SNMP Polling Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 109 Devices Failing SNMP Polling Report Options

Devices Failing SNMP Polling Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Devices Failing SNMP Polling.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 110 Devices Failing SNMP Polling Report Header

Devices Failing SNMP Polling Report Details

Name	Description
<i>Device Name</i>	IP address or system name for the managed device.
Entuity Server	Entuity server managing the device.
<i>IP Address</i>	IP address Entuity uses to poll the device.
<i>Device Type</i>	The device type.
<i>Manufacturer / Model</i>	Device manufacturer and model.
<i>Last Successful SNMP Poll</i>	Time of the last polled system uptime taken from the device.
<i>Reachable</i>	Indicates whether the polled IP address is currently reachable (Yes) or not (No). Devices that respond to ping are considered reachable

Table 111 Devices Failing SNMP Polling Report

Devices SNMP Response Time Report

Entuity Report

Devices SNMP Response Time



Printed on: Over the period 05:00 on Tue Oct 15 2013 - 05:00 on Wed Oct 16 2013

Description: Analysis of devices' SNMP response time

View: My Network

TopN: 10

Sorted By: Percentage Waiting

Device name	Device type	Manufacturer / Model	Percentage Waiting (%)	Response Time (ms)	Success Rate (per sec)	Failure Rate (per sec)
entlonsw01	Ethernet Switch	cisco / WS-C3750X-48P-L	49.023	262.098	2.519	0.000
lonsw05	Ethernet Switch	cisco / C2950XL	6.731	774.263	0.294	0.001
bsw1	Ethernet Switch	cisco / 8-port	1.893	255.527	0.287	0.000
entlonsw03	Ethernet Switch	cisco / WS-C3750X-48P-L	1.627	13.009	2.140	0.000
gw-gns3	Router	cisco / CISCO7206VXR	0.733	20.126	0.399	0.000
entlonsw02	Ethernet Switch	cisco / WS-C3750X-24P-L	0.659	7.097	1.166	0.000
lonswdsk2	Ethernet Switch	cisco / 8-port	0.623	13.356	0.354	0.000
10.44.63.2	Router	cisco / 3620	0.556	17.088	0.354	0.000
bottom3550	Ethernet Switch	cisco / WS-C3550-24-EMI	0.521	4.903	1.131	0.000
10.44.44.44	Router	cisco / 3640	0.487	11.081	0.530	0.000

Figure 38 Devices SNMP Response Time Report

Devices SNMP Response Time Report Overview

This report details the responsiveness of devices to requests from Entuity. It is intended for use by Entuity Support when troubleshooting performance issues.

Devices SNMP Response Time Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Sort by	You can sort the report on one of these attributes: <ul style="list-style-type: none"> ■ Percentage Waiting ■ Response Time ■ Success Rate ■ Failure Rate.

Table 112 Devices SNMP Response Time Report Options

Name	Description
TopN (0=all)	The number of devices included to the report. By default this is set to the top 10 devices as measured on the selected <i>Sort by</i> metric.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 112 Devices SNMP Response Time Report Options

Devices SNMP Response Time Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Devices SNMP Response Time.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
Sorted by	The column on which the report is sorted: <ul style="list-style-type: none"> ■ Percentage Waiting ■ Response Time ■ Success Rate ■ Failure Rate.
TopN (0=all)	The number of devices included to the report.

Table 113 Devices SNMP Response Time Report Header

Devices SNMP Response Time Report Details

Name	Description
<i>Device Name</i>	IP address or system name for the managed device.
<i>Device Type</i>	The device type.
<i>Manufacturer / Model</i>	Device manufacturer and model.
<i>Percentage Waiting (%)</i>	The average time Entuity spent waiting for a response to its SNMP requests to a device expressed as a percentage of the total report period. A higher percentage may indicate a higher load on the device.
<i>Response Time (ms)</i>	The average time over the reporting period between the SNMP request being sent by the Entuity server to a device and it receiving a response.
Success Rate (per sec)	The rate of successful SNMP requests to the device over the reporting period.
Failure Rate (per sec)	The rate of failed SNMP requests to the device over the reporting period.

Table 114 Devices SNMP Response Time Report

Entuity Server Health Summary Report

Entuity Report

Entuity Server Health Summary



Printed on: 21 Nov 2009 12:35:40 GMT

Description: Performance characteristics of the Entuity server
Over the period 00:00 on Fri Nov 20 2009 - 00:00 on Sat Nov 21 2009

No prime time is set for this report

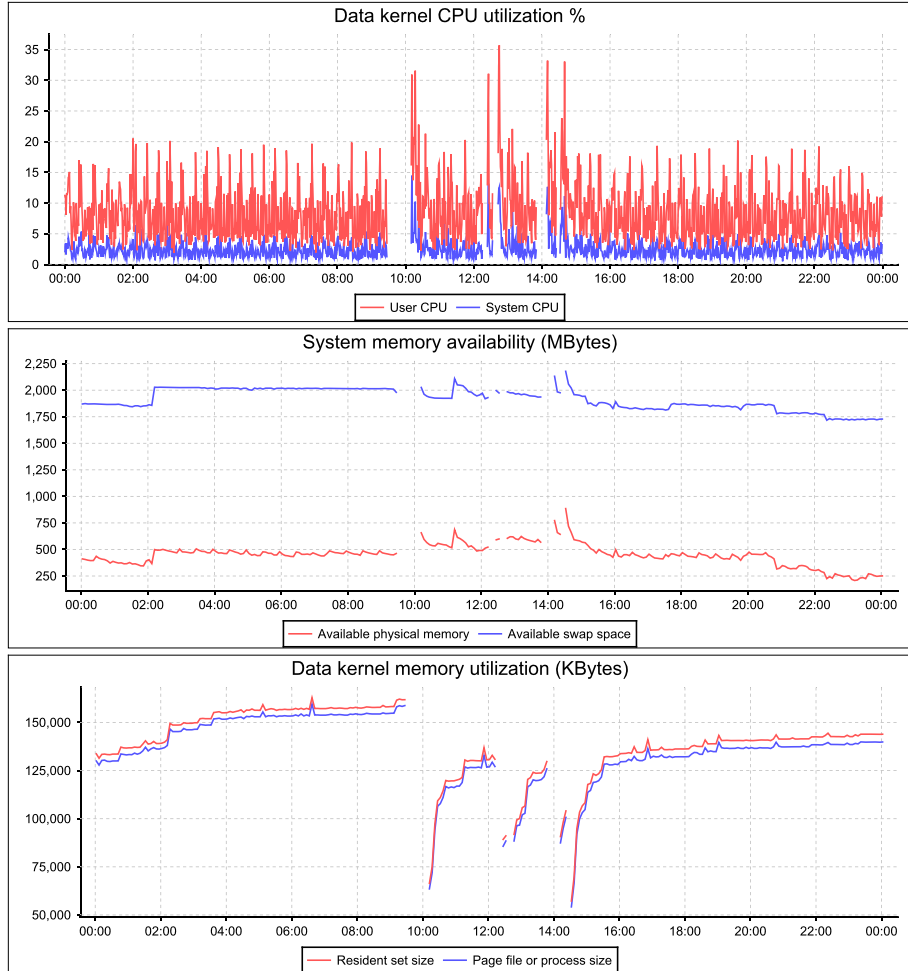


Figure 39 Entuity Server Health Summary Report

Entuity Server Health Summary Report Overview

This report is a summary of the health of the Entuity server, useful when investigating issues of Entuity server performance. It comprises of a number of sections, each section focuses on

a particular aspect of Entuity server, health, e.g. Database Health, License Health, Server Process Health. These sections also correspond with the Health pages available from the web UI.

Entuity Server Health Summary Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. last seven days. ■ Range, you can enter start and end dates and times.

Table 115 Entuity Server Health Summary Report Options

Entuity Server Health Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Entuity Server Health Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Report period</i>	Start and end dates and times over which the report is run.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 116 Entuity Server Health Summary Report Header

Entuity Server Health Summary Report Details

Name	Description
<i>Device kernel CPU utilization %</i>	Graphs user CPU and system CPU utilization over the report period.
<i>System memory availability (MBytes)</i>	Graphs available physical memory and available swap space over the report period.
<i>Data kernel memory utilization (KBytes)</i>	Graphs resident set size and page file/process size over the report period.

Table 117 Entuity Server Health Summary Report

Entuity Server Process Health

Process health section indicates the health of processes within Entuity. The status indicator icon is set to:

- Warning, when 1 or more processes are down (permanently) no matter when that happened or 1 or more processes restarted in the last hour.
- Severe, when 2 or more processes are down (permanently) in the last hour or 2 or more processes restarted in the last hour.

Name	Description
Entuity start time	Date and time of the last Entuity start up.
Entuity up time	The length of time the device has been up since its last start up.
<i>Name</i>	Name of the process
<i>Critical</i>	Indicates whether the process is critical to Entuity.
<i>Status</i>	Current status of the process.
<i>Restarts</i>	Number of process restarts since Entuity started.
<i>Last restart</i>	Date and time the process last restarted.

Table 118 Process Health

Entuity Server License Health

License health section indicates the health of processes within Entuity. The status indicator icon is set to:

- Warning: a running subsystem has a license that expires in 3014 days or the license usage reaches 90.0%
- Severe: a running subsystem has no license, the license has expired or the license usage reaches 100.0%.

Name	Description
Server	Name of the Entuity server.
Entuity Core Expiry	Date and time the current license for the main, i.e. not modules or integrations, Entuity processes expires.

Table 119 License Health

Name	Description
Resources	Licenses can be object based or device based.
Total	Number of license credits assigned to the resource.
Used	Number of used license.
Available	Number of available license credits, e.g. it indicates how many more devices can be managed.

Table 120 License Usage

Name	Description
Expiry	Date and time the current license for this resource expires. Expiry dates for all components of a license are usually the same, but can differ.

Table 120 License Usage

Name	Description
Name	Licenses can be object based or device based.
Enabled	Number of license credits assigned to the resource.
Expiry	Date and time the current license for this component expires. Expiry dates for all components of a license are usually the same, but can differ.

Table 121 License Component Usage

Entuity Server Database Health

From the Database Health section you can monitor the performance of the Entuity database. These health metrics are intended for Entuity representatives, or advanced users, intending to investigate performance problems or tune performance:

- *Database Uptime*, amount of time since database last start.
- *Slow Queries*, high values identify possible opportunities for database query optimization.
 - *Past Hour*, number of queries in the past hour that exceeded the slow query threshold.
 - *Average Per Hour*, hourly average since the last database restart, of queries that exceeded the slow query threshold.
 - *Past 24 Hours*, number of queries in the past twenty-four hours that exceeded the slow query threshold.
 - *Average per 24 Hours*, daily average since the last database restart, of queries that exceeded the slow query threshold.
 - *a slow query* identifies number of slow queries in past hour and past 24 hours with corresponding averages (averages are calculated since database start).

A large number of slow queries corresponds to a large database load. Where there is a significant deviation of the current number of slow queries from the server's average, this indicates an abnormal database loading that may require investigation.



Slow queries are defined as a query that takes longer the set value. The minimum and default values of `long_query_time` are 1 and 15 seconds, respectively.

- *Key Cache*:
 - *Size*, size of the configured key cache.
 - *Hits in Past 24 Hours*, cache-hit percentage in the past 24 hours. Low hit percentage indicates the need in increasing of the cache size.
- *Table Cache*:
 - *Size*, current table cache size.

- *Tables Opened in Past 24 Hours*, daily table open rate over the previous day.
 - *Average Per 24 Hours*, daily average since the last database restart, of table access
- A large number of opened tables, or an increase compared to the average indicates the need to increase the table cache.

■ *Table Lock Acquisitions:*

- *Total*, number of table lock acquisitions over the previous hour and twenty-four hours.
- *Immediate*, number of immediate table lock acquisitions over the hour and twenty-four hours.
- *Waited*, number of table delayed lock acquisitions over the previous hour and twenty-four hours.

A large percentage of waited lock acquisitions indicates a large database load.

■ *Threads:*

- *Non-Sleeping*, number of current non-sleeping lock threads and average since the last database restart.
- *Waiting on User Lock*, number of current waiting on user lock threads and average since the last database restart.

Large numbers and higher deviations from the average indicate a higher current load.

- *Maximum Open Connections*, the maximum number of open connections since the last database restart. A higher number of open connections indicates higher database utilization.
- *Current Open Connections*, the current number of open connections. A higher number of open connections indicates higher database utilization.
- *Average per 24 Hours*, the average daily number of open connections since the last database restart.

A higher number of open connections indicates higher database utilization.

■ *Overall Status*, summary state of Entuity Database Health:

- **OK**, performance is within acceptable boundaries.
- **Warning**, the number of slow queries in the past hour is larger than the corresponding average by five or more.

Management Start Date and Custom View Memberships Report

Entuity Report

Management Start Date and Custom View Memberships



Printed on: 5 Nov 2013 21:11:34 GMT

Description: Date of start of Entuity management and custom view memberships for managed devices
View: My Network

Device name	IP address	Managed since	Custom views
10.200.5.1	10.200.5.1	9/3/13 3:41 PM	
10.200.5.4	10.200.5.4	9/3/13 3:41 PM	Berlin Office
10.200.5.6	10.200.5.6	9/3/13 3:41 PM	
10.44.44.44	10.44.44.44	9/3/13 3:41 PM	
10.44.63.2	10.44.63.2	9/3/13 3:41 PM	
10.66.18.1	10.66.18.1	9/3/13 3:41 PM	
10.66.51.1	10.66.51.1	10/24/13 4:54	
10.66.51.7	10.66.51.7	10/24/13 5:09	
10.66.60.1	10.66.60.1	9/3/13 3:41 PM	
10.66.60.4	10.66.60.4	9/3/13 3:41 PM	London
10.66.60.5	10.66.60.5	9/3/13 3:41 PM	
10.66.70.5	10.66.70.5	9/3/13 3:41 PM	
HPCOL1	10.44.1.62	9/3/13 3:47 PM	
bsw1	10.44.1.102	9/3/13 3:41 PM	Berlin Office
entlonsw01	10.44.1.27	9/3/13 3:47 PM	Berlin Office
entlonsw03	10.44.1.29	9/3/13 3:47 PM	
eolus	10.44.1.77	9/3/13 3:47 PM	
gw-gms3	10.44.1.117	9/3/13 3:47 PM	
lonswdsk2	10.44.1.194	9/3/13 3:47 PM	

Figure 40 Management Start Date / Custom View Memberships

Management Start Date and Custom View Memberships Report Overview

This report provides an inventory of devices under Entuity management, summary of managed devices and the views to which they belong.

Management Start Date and Custom View Memberships Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 122 Management Start Date and Custom View Memberships Report Options

Management Start Date and Custom View Memberships Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Management Start Date and Custom View Memberships.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 123 Management Start Date and Custom View Memberships Report Header

Management Start Date and Custom View Memberships Report Details

Name	Description
<i>Device Name</i>	IP address or system name for the managed device.
<i>IP Address</i>	IP address Entuity uses to poll the device.
<i>Managed Since</i>	The date from which Entuity managed the device.
<i>Custom Views</i>	User defined views of which the device is a member.

Table 124 Management Start Date and Custom View Memberships Report

Polling Diagnostics Report

Entuity Report

Polling Diagnostics



Printed on: 5 Nov 2013 21:17:44 GMT

Description: Analysis of stream job timings

Over the period 00:00 on Tue Oct 29 2013 - 00:00 on Tue Nov 05 2013

Overrun Streams Summary

Stream Name	Avg Overrun %	Avg Duration (S)	Avg Duration 95th (S)	Avg Wait (S)
chassisman	1.00	16.63	45.13	0.00

Job Timings Details

AgentRebootTime Average Overrun=0.00% Instance Count=1 Period=300s

Time slice period	Overrun %	Duration mean (S)	Duration 95th	Wait (S)
0:00 to 2:59	0.00	0	0	0
3:00 to 5:59	0.00	0	0	0
6:00 to 8:59	0.00	0	0	0
9:00 to 11:59	0.00	0	1	0
12:00 to 14:59	0.00	0	0	0
15:00 to 17:59	0.00	0	1	0
18:00 to 20:59	0.00	0	0	0
21:00 to 23:59	0.00	0	0	0

DeviceMPLS Average Overrun=0.00% Instance Count=5 Period=300s

Time slice period	Overrun %	Duration mean (S)	Duration 95th	Wait (S)
0:00 to 2:59	0.00	3	9	0
3:00 to 5:59	0.00	3	8	0
6:00 to 8:59	0.00	3	9	0
9:00 to 11:59	0.00	3	9	0
12:00 to 14:59	0.00	3	5	0
15:00 to 17:59	0.00	3	9	0
18:00 to 20:59	0.00	3	9	0
21:00 to 23:59	0.00	3	9	0

DiscoveredModulesStream Average Overrun=0.00% Instance Count=19 Period=300s

Time slice period	Overrun %	Duration mean (S)	Duration 95th	Wait (S)
0:00 to 2:59	0.00	0	0	0
3:00 to 5:59	0.00	0	0	0
6:00 to 8:59	0.00	0	0	0
9:00 to 11:59	0.00	0	0	0
12:00 to 14:59	0.00	0	0	0
15:00 to 17:59	0.00	0	0	0
18:00 to 20:59	0.00	0	0	0
21:00 to 23:59	0.00	0	0	0

FanValueStream Average Overrun=0.00% Instance Count=8 Period=900s

Time slice period	Overrun %	Duration mean (S)	Duration 95th	Wait (S)
0:00 to 2:59	0.00	7	23	0
3:00 to 5:59	0.00	6	20	0
6:00 to 8:59	0.00	7	21	0
9:00 to 11:59	0.00	7	24	0
12:00 to 14:59	0.00	4	12	0
15:00 to 17:59	0.00	6	17	0
18:00 to 20:59	0.00	6	20	0
21:00 to 23:59	0.00	6	17	0

Figure 41 Polling Diagnostics Report

Polling Diagnostics Report Overview

This report provides information useful for diagnostic investigation of irregularities in Entuity polling streams. As a diagnostic report it is intended for use under guidance of your Entuity representative.

Polling Diagnostics Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. last seven days. ■ Range, you can enter start and end dates and times.

Table 125 Polling Diagnostics Report Options

Polling Diagnostics Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Polling Diagnostics.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 126 Polling Diagnostics Report Header

Polling Diagnostics Report Details

Name	Description
<i>Job Name</i>	The particular stream's name, e.g. rnewsPort.
<i>Period</i>	The stream's polling interval.
<i>Time Slice Period</i>	Start and end time for the stream performance.

Table 127 Polling Diagnostics Report

Name	Description
<i>Overrun %</i>	The number of times that the stream overran, i.e. was still running when it is scheduled to run again, as a percentage of the total number of stream instances during <i>Time Slice Period</i> . The over running stream instance is allowed to complete, but the next scheduled instance of the stream is not run.
<i>Duration mean (s)</i>	Mean average of the time of stream duration during <i>Time Slice Period</i> .
<i>Duration 95th Percentile</i>	95th percentile of the time of stream duration during <i>Time Slice Period</i> .

Table 127 Polling Diagnostics Report

Process Diagnostics Report

Entuity Report

Process Diagnostics



Printed on: 5 Nov 2013 20:43:35 GMT

Description: Analysis of process performance statistics

Over the period 00:00 on Fri Nov 01 2013 - 00:00 on Tue Nov 05 2013

Performance Statistics Summary

Number of CPU = 1 (Max CPU = 100%)

Process Name	Start Time	Virtual Memory (MB)	Resident Set Memory (MB)	User CPU (%)	System CPU (%)	Read Bytes (MB/s)	Write Bytes (MB/s)
applicationmonitor	Sun Nov 03 11:19:41 GMT 2013	526.45	25.26	0.01	0.01	0.05	0.01
database	Sun Nov 03 11:18:56 GMT 2013	880.17	540.06	0.88	0.16	26.73	5.11
diskmonitor	Sun Nov 03 11:19:56 GMT 2013	17.61	1.80	0.00	0.00	0.00	0.00
dkkernel	Sun Nov 03 11:19:21 GMT 2013	506.36	95.43	0.69	0.09	0.16	0.60
eosserver	Sun Nov 03 11:20:16 GMT 2013	743.55	143.15	0.57	0.13	0.28	2.37
eventEngine	Sun Nov 03 11:19:16 GMT 2013	1592.20	127.05	0.98	0.24	0.35	0.08
eyepoller	Sun Nov 03 11:19:46 GMT 2013	375.86	23.32	0.04	0.03	2.59	0.01
flowCollector	Sun Nov 03 11:20:06 GMT 2013	1013.69	80.81	0.27	0.07	0.34	0.00
flowserver	Sun Nov 03 11:20:26 GMT 2013	21.11	2.24	0.00	0.00	0.00	0.00
licenseserver	Sun Nov 03 11:19:06 GMT 2013	16.70	2.14	0.00	0.00	0.00	0.00
macScheduler	Sun Nov 03 11:20:01 GMT 2013	231.25	2.86	0.00	0.00	30.30	0.02
prologV2	Sun Nov 03 11:19:36 GMT 2013	339.62	12.21	0.00	0.00	0.03	0.00
scheduler	Sun Nov 03 11:19:26 GMT 2013	18.73	2.09	0.00	0.00	7.19	0.01
search	Sun Nov 03 11:20:21 GMT 2013	191.47	30.06	0.02	0.01	0.00	0.26
syslogger	Sun Nov 03 11:19:51 GMT 2013	101.20	2.89	0.00	0.00	0.00	0.00
ticker	Sun Nov 03 11:19:31 GMT 2013	241.79	3.58	0.00	0.00	0.00	0.00
tomcat	Sun Nov 03 11:20:11 GMT 2013	1632.30	354.60	0.48	0.05	1.78	0.05
viewserver	Sun Nov 03 11:19:11 GMT 2013	210.03	4.11	0.00	0.00	0.00	0.00
webserver	Sun Nov 03 11:19:01 GMT 2013	70.93	2.74	0.00	0.00	0.24	0.25
virtualization	Sun Nov 03 11:20:31 GMT 2013	1011.59	60.15	0.07	0.01	0.06	0.00

Figure 42 Process Diagnostics Report

database

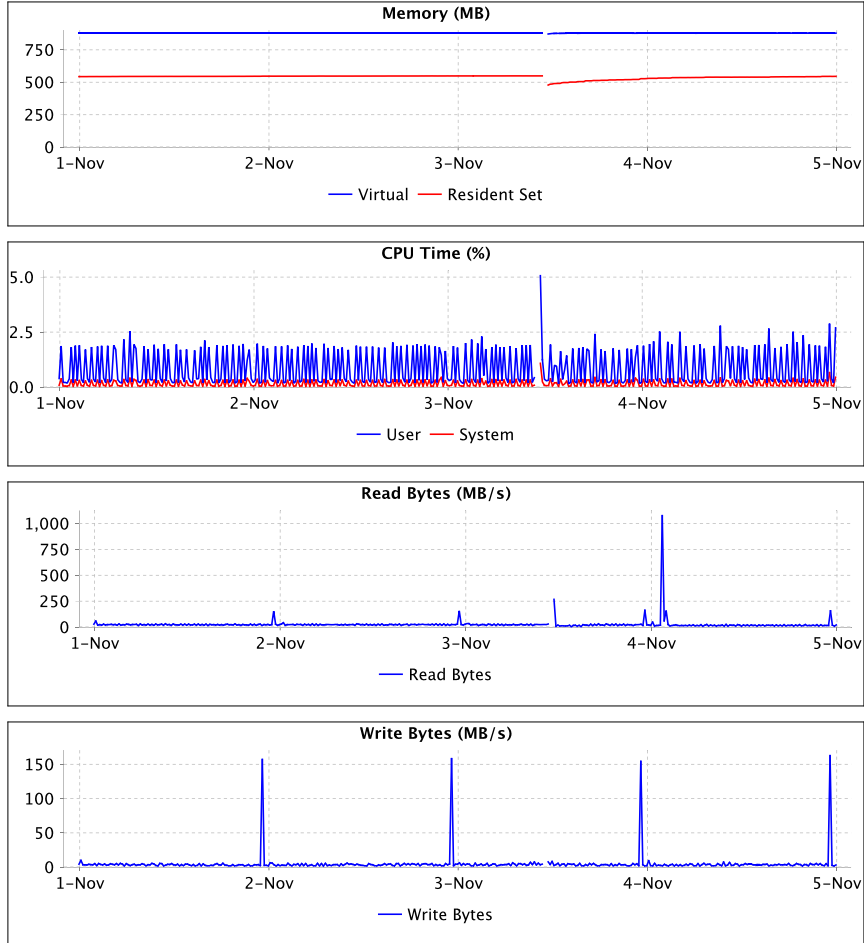


Figure 43 Process Diagnostics Process Charts

Process Diagnostics Report Overview

This report provides information useful for diagnostic investigation of irregularities in Entuity processes. As a diagnostic report it is intended for use under guidance of your Entuity representative.

Process Diagnostics Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. last seven days. ■ Range, you can enter start and end dates and times.

Table 128 Process Diagnostics Report Options

Process Diagnostics Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Process Diagnostics.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 129 Process Diagnostics Report Header

Process Diagnostics Report Details

Report includes:

- A Performance Statistics Summary table, with each row in the table providing a precis of an Entuity process' performance at the time the report is run.
- For each process in the table a set of 4 Performance Statistics Charts; Memory, CPU Time, Read Bytes and Write Bytes, graph performance over the reporting period.

Name	Description
<i>Process Name</i>	The particular process name, e.g. diskmonitor.
<i>Start Time</i>	The date and time the process started.
<i>Virtual Memory (MB)</i>	Average processor virtual memory usage over the reporting period.
<i>Resident Set Memory (MB)</i>	Average processor resident set memory usage over the reporting period.
<i>User CPU (%)</i>	Average user CPU usage as a percentage of total CPU over the reporting period.
<i>System CPU (%)</i>	Average system CPU usage as a percentage of total CPU over the reporting period.

Table 130 Performance Statistics Summary

Name	Description
Read Bytes (MB/s)	Average processor reads, in MB per second, over the reporting period.
Write Bytes (MB/s)	Average processor writes, in MB per second, over the reporting period.

Table 130 Performance Statistics Summary

Reports Health Report

Entuity Report



Reports Health

Printed on: 7 Dec 2015 17:04:26 GMT

Description: Status information on scheduled Jasper reports

Over the period 17:04 on Sun Dec 06 2015 - 17:04 on Mon Dec 07 2015

Report	User Defined	Owner	Run Count	OK Count	Fail Count	Mean Time	Max Time	Total Time
CPU Utilization Details	No	admin	19	19	0	00:00:00	00:00:01	0d, 00:00:04
Polling Diagnostics	No	admin	4	4	0	00:00:53	00:00:55	0d, 00:03:34
View Permissions and User Access Control	No	admin	19	19	0	00:00:01	00:00:03	0d, 00:00:21

Figure 44 Reports Health Report

Reports Health Report Overview

This report identifies the performance of scheduled reports, reporting on their success and failure and the time taken to complete. The report is intended to highlight poorly performing reports, many reports may complete within one second and therefore return a legitimate mean time of 0:00:00. Other reports on large installations may legitimately take a long time to complete this report. Reports Health report can indicate which ones they are and that you may be advised to schedule them when your network is quiet (and therefore the load on Entuity is reduced).

By default Entuity retains the history of the last 20 scheduled jobs for each scheduled report definition. If the scheduled report runs more often than that within the report period the report can only report on the last 20 samples.

Reports Health Report Options

Report Options allow you to configure the parameters of the report, focusing it on the views in which you are most interested.

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Report Period</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 131 Reports Health Report Options

Reports Health Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.

Table 132 Reports Health Report Header

Name	Description
<i>Report title</i>	Report title, e.g. Reports Health.
<i>Printed on</i>	Date and time the report was generated.
<i>Over the period</i>	Reporting period.

Table 132 Reports Health Report Header

Reports Health Report Details

Name	Description
<i>Report</i>	Name of the schedule report. This is also a hyperlink to the report's scheduled history.
<i>User Defined</i>	Indicates whether the report schedule is user defined or not.
<i>Owner</i>	User that scheduled the report,
<i>Run Count</i>	Number of times the report has run.
<i>OK Count</i>	Number of times the report has run successfully.
<i>Fall Count</i>	Number of times the report has failed to complete.
<i>Mean Time</i>	Average mean time the report has taken to complete.
<i>Max Time</i>	Maximum time the report has taken to complete.
<i>Total Time</i>	Total time the report has taken to complete.

Table 133 Reports Health Report

View Comparison Report

Entuity Report

Differences between views



Printed on: 15 Nov 2011 10:13:32 GMT

First view: Madrid

Second view: Miami

Third view:

Devices in Madrid but not Miami
10.44.1.118
10.44.1.164

Devices in Miami but not Madrid
bottom2960
lonsw02
pluto

Figure 45 View Comparison Report

View Comparison Report Overview

This report compares the list of devices currently within two, optionally three, views. It then details for each view the devices it includes that aren't included to the comparison view.

View Comparison Report Options

Report Options allow you to configure the parameters of the report, focusing it on the views in which you are most interested.

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>First View</i>	View against which other view(s) in the report are compared.
<i>Second View</i>	The content of this view is compared against the content of <i>First View</i> .
<i>Third View (optional)</i>	The content of this view is compared against the content of <i>First View</i> .

Table 134 View Comparison Report Options

View Comparison Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.

Table 135 View Comparison Report Header

Name	Description
<i>Report title</i>	Report title, e.g. Differences between views.
<i>Printed on</i>	Date and time the report was generated.
<i>First View</i>	View against which other view(s) in the report are compared.
<i>Second View</i>	The content of this view is compared against the content of <i>First View</i> .
<i>Third View</i>	The content of this view is compared against the content of <i>First View</i> .

Table 135 View Comparison Report Header

View Comparison Report Details

Name	Description
<i>Title</i>	The title of the table identifies the context of the list of devices, for example, Devices in Miami but not Madrid. Where a view does not contain devices that are not found in other views the report does not generate a comparison table.

Table 136 View Comparison Report

View Hierarchy Report

Entuity Report



View Hierarchy

Printed on: 18 May 2015 15:33:41 BST

Description: View Hierarchy across one or more Entuity servers

View	Read Only	Manually Populated	Servers
All Objects	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (admin)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (emmabrown)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (jamesmith)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (juangarcia)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (kofiyeboah)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (mariaperez)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (meichen)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (nanatoure)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (rilee)	Yes	No	century.entuity.local, ENTLONPPVM01
My Network (user)	Yes	No	century.entuity.local, ENTLONPPVM01
Africa	No	Yes	century.entuity.local, ENTLONPPVM01
Africa/Cairo	No	Yes	century.entuity.local
Africa/Lagos	No	Yes	century.entuity.local, ENTLONPPVM01
Americas	No	Mixed	century.entuity.local, ENTLONPPVM01
Americas/New York	No	Mixed	century.entuity.local, ENTLONPPVM01
Asia	No	Yes	century.entuity.local, ENTLONPPVM01
Asia/peking	No	Yes	century.entuity.local
Europe	No	No	century.entuity.local, ENTLONPPVM01
Europe/London	No	Yes	century.entuity.local, ENTLONPPVM01
Europe/Madrid	No	Yes	century.entuity.local, ENTLONPPVM01
Europe/New York	No	Yes	ENTLONPPVM01
London	No	Yes	century.entuity.local, ENTLONPPVM01
Madrid	No	Yes	century.entuity.local, ENTLONPPVM01
New York	No	Yes	century.entuity.local, ENTLONPPVM01
Peking	No	Yes	century.entuity.local, ENTLONPPVM01
Port Elizabeth	No	Yes	century.entuity.local, ENTLONPPVM01
routers	No	No	ENTLONPPVM01
ucs	No	Yes	ENTLONPPVM01
udp	No	Yes	ENTLONPPVM01

Figure 46 View Hierarchy Report

View Hierarchy Report Overview

This report provides a summary of view configuration parameters, useful in multi-server environments when maintaining consistency of view configuration across servers. Views are sorted alphabetically, allowing you to identify differences in view name casing; Entuity view names are case sensitive.

View Hierarchy Report Options

Report Options allow you to configure the parameters of the report, focusing it on the servers in which you are most interested.

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 137 View Hierarchy Report Options

View Hierarchy Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. View Hierarchy.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.

Table 138 View Hierarchy Report Header

View Hierarchy Report Details

Name	Description
<i>View</i>	Name of the view path, a sub-view is identified through its position in the hierarchy, for example view2/subview2 indicates subview2 is a sub-view of view2.
<i>Read Only</i>	Indicates whether the view is a system view. When set to: <ul style="list-style-type: none"> ■ Yes, it is a read only system view, i.e. All Objects content and filters cannot be amended, My Network views content cannot be amended but their event and incidents filters can be amended. ■ No, it is a user defined view.
<i>Manually Populated</i>	Indicates whether the view is a automatically populated or manually populated. When set to: <ul style="list-style-type: none"> ■ Yes, it is a manually populated view. ■ No, it is not an automatically populated view, for example a view based on one or more other views. ■ Mixed, indicates the view is a manually populated view on at least one server and an automatically populated view on at least one other server. <p>Entuity recommend that a view with the same view path on different servers is populated using the same mechanism.</p>
<i>Servers</i>	The Entuity servers on which the view installed.

Table 139 View Hierarchy Report

View Permissions and User Access Control Report

Entuity Report



View Permissions and User Access Control

Printed on: 18 May 2015 18:03:18 BST

Description: Lists group membership, which views each group has access to and all users that have access to each device

Users and Group Membership

User	Server	Groups
admin	ENTLONPP VM01	Administrators, All Users
EmmaBrown	ENTLONPP VM01	All Users, Beijing
JamesSmith	ENTLONPP VM01	Advanced, Africa, All Users, London
JuanGarcia	ENTLONPP VM01	All Users, New York
KofiYeboah	ENTLONPP VM01	All Users, London
MariaPerez	ENTLONPP VM01	All Users, New York
MeiChen	ENTLONPP VM01	All Users, Beijing
NanaToure	ENTLONPP VM01	All Users, New York
RiLee	ENTLONPP VM01	All Users, London
user	ENTLONPP VM01	All Users

Views and Device Membership

View	Server	Devices
Africa	ENTLONPP VM01	10.44.1.43, 10.44.1.49, 10.44.1.65, bottom2960, bottom3550, c3560, e2821.entuity.local, entlonsw03, HPCOL1, new2610, pluto, r2610, top2960, top3550
Africa/Lagos	ENTLONPP VM01	10.44.1.43, 10.44.1.49, 10.44.1.65, bottom2960, e2821.entuity.local, HPCOL1, top2960, top3550
Africa/Port Elizabeth	ENTLONPP VM01	bottom3550, c3560, entlonsw03, new2610, pluto, r2610
All Objects	ENTLONPP VM01	10.44.1.43, 10.44.1.49, 10.44.1.65, 10.44.1.76, 10.44.1.93, 10.44.1.116, 10.44.1.118, 10.44.1.122, 10.44.1.123, 10.44.1.151, 10.44.1.249, 10.44.1.252, 10.44.2.110, 10.44.2.140, 10.44.2.205, apcr1, apcr2, apcr3, apcr4, AWS, blade, blade.entuity.local, bottom2960, bottom3550, bsw1, builderm, c3560, cisco-7203, Cisco-CIMC, Cisco-UCS6120, Cisco-UCS6248, e2821.entuity.local, entlonsw03, entlonwsus01, galaxy, HPCOL1, idrac-galaxy, idrac-milkyway, jan-gw, jupiter, lonswdsk1, lonswdsk2, milkyway, new2610, oraclevm.entuity.local, pfsense, pluto, poplar-router.entuity.local, quidway.entuity.local, r2610, silicon, stack3750, stratford-router, top2960, top3550, vcenter.entuity.local, vortex
Americas	ENTLONPP VM01	apcr1
Americas/New York	ENTLONPP VM01	
Asia	ENTLONPP VM01	
Europe	ENTLONPP VM01	10.44.1.151, 10.44.1.249, 10.44.1.252, blade, blade.entuity.local, builderm, cisco-7203, Cisco-CIMC, Cisco-UCS6120, Cisco-UCS6248, galaxy, idrac-galaxy, idrac-milkyway, jan-gw, jupiter, lonswdsk1, lonswdsk2, milkyway, oraclevm.entuity.local, pfsense, quidway.entuity.local, silicon, vcenter.entuity.local
Europe/London	ENTLONPP VM01	cisco-7203, Cisco-CIMC, Cisco-UCS6120, Cisco-UCS6248, galaxy, idrac-galaxy, idrac-milkyway, jan-gw, jupiter, milkyway, oraclevm.entuity.local, pfsense, vcenter.entuity.local
Europe/Madrid	ENTLONPP VM01	10.44.1.151, 10.44.1.249, 10.44.1.252, blade, blade.entuity.local, builderm, lonswdsk1, lonswdsk2, quidway.entuity.local, silicon
London	ENTLONPP VM01	cisco-7203, Cisco-CIMC, Cisco-UCS6120, Cisco-UCS6248, galaxy, idrac-galaxy, idrac-milkyway, jan-gw, jupiter, milkyway, oraclevm.entuity.local, pfsense, vcenter.entuity.local
Madrid	ENTLONPP VM01	
My Network (admin)	ENTLONPP VM01	10.44.1.43, 10.44.1.49, 10.44.1.65, 10.44.1.76, 10.44.1.93, 10.44.1.116, 10.44.1.118, 10.44.1.122, 10.44.1.123, 10.44.1.151, 10.44.1.249, 10.44.1.252, 10.44.2.110, 10.44.2.140, 10.44.2.205, apcr1, apcr2, apcr3, apcr4, AWS, blade, blade.entuity.local, bottom2960, bottom3550, bsw1, builderm, c3560, cisco-7203, Cisco-CIMC, Cisco-UCS6120, Cisco-

Figure 47 View Permissions and User Access Control Report

View Permissions and User Access Control Report Overview

This report comprises of a series of optional tables that detail user and user group access to views and devices.

View Permissions and User Access Control Report Options

Report Options allow you to configure the parameters of the report, focusing it on the access in which you are most interested.

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Show group membership</i>	Includes to the report a table that lists for each user, by Entuity server, the user groups of which they are members. Selected by default.
<i>Show group view access</i>	Includes to the report a table that lists for each view, by Entuity server, the devices available through that view.
<i>Show device user access membership</i>	Includes to the report a table that lists for each device, by Entuity server, the users that have access.
<i>Show device access membership</i>	Includes to the report a table that lists for each device, by Entuity server, the users that have access.
<i>Show user's tool permissions</i>	Includes to the report a table that lists for each user group, by Entuity server, the tools to which they have access.

Table 140 View Permissions and User Access Control Report Options

View Permissions and User Access Control Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. View Permissions and User Access Control.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.

Table 141 View Permissions and User Access Control Report Header

View Permissions and User Access Control Report Details

Name	Description
<i>View</i>	Name of the view path, a sub-view is identified through its position in the hierarchy, for example view2/subview2 indicates subview2 is a sub-view of view2.
<i>Read Only</i>	Indicates whether the view is a system view. When set to: <ul style="list-style-type: none"> ■ Yes, it is a read only system view, i.e. All Objects content and filters cannot be amended, My Network views content cannot be amended but their event and incidents filters can be amended. ■ No, it is a user defined view.
<i>Manually Populated</i>	Indicates whether the view is a automatically populated or manually populated. When set to: <ul style="list-style-type: none"> ■ Yes, it is a manually populated view. ■ No, it is not an automatically populated view, for example a view based on one or more other views. ■ Mixed, indicates the view is a manually populated view on at least one server and an automatically populated view on at least one other server. Entuity recommend that a view with the same view path on different servers is populated using the same mechanism.
<i>Servers</i>	The Entuity servers on which the view installed.

Table 142 View Permissions and User Access Control Report

Device	Server	Users
10.44.1.43	ENTLONPP VM01	admin, JamesSmith
10.44.1.49	ENTLONPP VM01	admin, JamesSmith
10.44.1.65	ENTLONPP VM01	admin, JamesSmith
10.44.1.76	ENTLONPP VM01	admin
10.44.1.93	ENTLONPP VM01	admin
10.44.1.116	ENTLONPP VM01	admin
10.44.1.118	ENTLONPP VM01	admin
10.44.1.122	ENTLONPP VM01	admin
10.44.1.123	ENTLONPP VM01	admin
10.44.1.151	ENTLONPP VM01	admin, JamesSmith, KofiYeboah, RiLee
10.44.1.249	ENTLONPP VM01	admin, JamesSmith, KofiYeboah, RiLee
10.44.1.252	ENTLONPP VM01	admin, JamesSmith, KofiYeboah, RiLee
10.44.2.110	ENTLONPP VM01	admin
10.44.2.140	ENTLONPP VM01	admin

Figure 48 View Permissions and User Access Control Report

Group	Server	Tools
Administrators	ENTLONPP VM01	Annotation Manager, Application Monitor, Auto Discovery Administration, Configuration Monitor, Create Services, Create Views, Data Export, Edit Maps, Edit View Filters, Entuity Health, Event Administration, Event Notification Administration, Event Suppression, Flex Reports, Flow Inspection, Inventory Administration, Inventory Snapshots Administration, Managed Port Administration, Multi-Server Administration, Remote Terminal, Report Builder (Requires Reports and InSight Center), Reports and InSight Center, Save Maps, Share Views, Show Advanced Tools, Show Remedy, Show User Menus, Ticker, Trace Route, User Defined Polling, View Audit Log, View Maps
Advanced	ENTLONPP VM01	Auto Discovery Administration, Inventory Administration, Inventory Snapshots Administration, Managed Port Administration
Africa	ENTLONPP VM01	
All Users	ENTLONPP VM01	
Beijing	ENTLONPP VM01	
London	ENTLONPP VM01	
New York	ENTLONPP VM01	

Figure 49 View Permissions and User Access Control Report

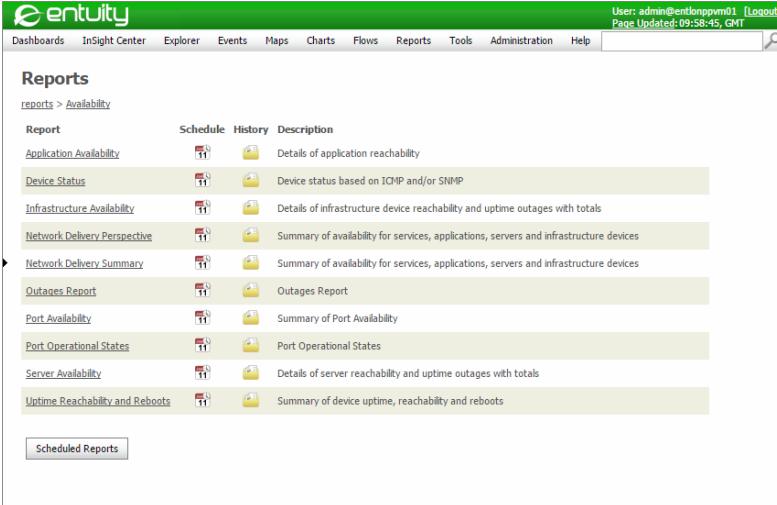
4 Availability Reports

This set of reports allow you to monitor the reachability and availability of applications, devices, servers and ports on your network.

Running Availability Reports

You can run Availability reports from the web interface:

- 1) Click **Reports**.
- 2) Click **Availability Reports**. Entuity displays the list of available reports.



The screenshot shows the Entuity web interface with the 'Reports' section selected. The breadcrumb trail is 'reports > Availability'. The main content area displays a table of reports with columns for 'Report', 'Schedule', 'History', and 'Description'. The reports listed are:

Report	Schedule	History	Description
Application Availability			Details of application reachability
Device Status			Device status based on ICMP and/or SNMP
Infrastructure Availability			Details of infrastructure device reachability and uptime outages with totals
Network Delivery Perspective			Summary of availability for services, applications, servers and infrastructure devices
Network Delivery Summary			Summary of availability for services, applications, servers and infrastructure devices
Outages Report			Outages Report
Port Availability			Summary of Port Availability
Port Operational States			Port Operational States
Server Availability			Details of server reachability and uptime outages with totals
Uptime Reachability and Reboots			Summary of device uptime, reachability and reboots

At the bottom left of the report list, there is a button labeled 'Scheduled Reports'.

Figure 50 Availability Reports

Application Availability Report

Entuity Report

Application Availability



Printed on: 13 Nov 2009 16:43:25 EST
 Description: Details of application reachability
 View: Regional

Applications:
 Over the period 16:00 on Thu Nov 12 2009 - 16:00 on Fri Nov 13 2009

Application name	Server name	Reachability %
telnet on 192.168.141.2	192.168.141.2	0.00
telnet on 192.168.242.123	192.168.242.123	0.00
telnet on 192.168.244.1	192.168.244.1	0.00
telnet on 192.168.245.11	192.168.245.11	0.00
netbios-ssn on 192.168.40.101	CHICAGO-SERVER	0.00
netmeeting on 192.168.40.101	CHICAGO-SERVER	0.00
ftp on 192.168.3.67	condor	88.13
http on 192.168.3.67	condor	0.00
mysql on 192.168.3.67	condor	87.13
telnet on 192.168.3.67	condor	87.53

Figure 51 Application Availability Report

Application Availability Report Overview

Entuity uses a separate polling mechanism (ICMP ping) to gather Reachability data, to that used to gather Reboot and Uptime metrics (SNMP polling). There are likely to be slight variations between the Reachability and Uptime values due to the different polling methods and polling cycles. Larger differences may indicate problems on the device, for example:

- Discarding ICMP pings when a device is heavily utilized.
- Differences may also occur when Entuity has been offline and devices have rebooted in that period.
- SNMP service is suspended or down on the device, Entuity requires SNMP to fully manage a device.

Application Availability Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.

Table 143 Application Availability Report Header

Name	Description
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 143 Application Availability Report Header

Application Availability Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Application Availability.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run. Configurable through Report Options.
<i>Applications</i>	Start and end dates and times over which the report is run. Configurable through Report Options.

Table 144 Application Availability Report Header

Application Availability Report Details

Name	Description
<i>Application Name</i>	Name of the application.
<i>Server Name</i>	Name of the server hosting the application.
<i>Reachability</i>	Percentage Reachability during the reporting period.

Table 145 Application Availability Report

Device Status Report

Entuity Report



Device Status

Printed on: 28 Oct 2014 13:03:09 GMT

Description: Device status based on ICMP and/or SNMP, plus hostname resolution and system status

View: My Network

ENTLONPPVM01

Name	Device Type	Polled IP	Status
✘ 10.44.2.56	Unclassified	10.44.2.56	ICMP not responding (SNMP disabled)
✘ 10.66.51.8	Ethernet Switch	10.66.51.8	ICMP & SNMP not responding
! entlonpvmc01	Unclassified (Full)	10.44.2.21	SNMP not responding
! radium	Ethernet Switch	10.44.1.233	SNMP not responding
? r10.gns3.zurich.entuity.lab	Router	172.20.176.10	Unable to resolve hostname to IP
? r11.gns3.zurich.entuity.lab	Router	172.20.176.11	Unable to resolve hostname to IP
? r12.gns3.zurich.entuity.lab	Router	172.20.176.12	Unable to resolve hostname to IP
? r13.gns3.zurich.entuity.lab	Router	172.20.176.13	Unable to resolve hostname to IP
? r13-host.gns3.zurich.entuity.lab	Managed Host	192.168.79.201	Unable to resolve hostname to IP
? r15.gns3.zurich.entuity.lab	Router	172.20.176.15	Unable to resolve hostname to IP
? r3.gns3.zurich.entuity.lab	Router	172.20.176.3	Unable to resolve hostname to IP
? r4.gns3.zurich.entuity.lab	Router	172.20.176.4	Unable to resolve hostname to IP
? r6.gns3.zurich.entuity.lab	Router	172.20.176.6	Unable to resolve hostname to IP
? r7.gns3.zurich.entuity.lab	Router	172.20.176.7	Unable to resolve hostname to IP
? r8.gns3.zurich.entuity.lab	Router	172.20.176.8	Unable to resolve hostname to IP
? r9.gns3.zurich.entuity.lab	Router	172.20.176.9	Unable to resolve hostname to IP
✔ 10.44.1.118	Unclassified	10.44.1.118	ICMP responding (SNMP disabled)
✔ 10.44.1.122	Unclassified	10.44.1.122	ICMP responding (SNMP disabled)
✔ 10.44.1.151	Unclassified	10.44.1.151	ICMP responding (SNMP disabled)
✔ 10.44.1.249	Managed Host	10.44.1.249	Ok
✔ 10.44.1.252	Ethernet Switch	10.44.1.252	Ok
✔ 10.44.1.43	Router	10.44.1.43	Ok
✔ 10.44.1.49	Managed Host	10.44.1.49	Ok
✔ 10.44.1.65	Uninterruptible Power	10.44.1.65	Ok
✔ 10.44.1.76	Unclassified	10.44.1.76	ICMP responding (SNMP disabled)
✔ 10.44.1.93	Managed Host	10.44.1.93	Ok
✔ 10.44.2.1	Unclassified	10.44.2.1	ICMP responding (SNMP disabled)
✔ 10.44.2.140	Managed Host	10.44.2.140	Ok
✔ 10.44.2.51	Unclassified	10.44.2.51	ICMP responding (SNMP disabled)
✔ 10.66.100.185	Blade Center	10.66.100.185	Ok
✔ 10.66.100.188	Ethernet Switch	10.66.100.188	Ok
✔ 10.66.100.189	Wireless Controller	10.66.100.189	Ok
✔ 10.66.100.190	Ethernet Switch	10.66.100.190	Ok

Figure 52 Device Status Report

Device Status Report Overview

Entuity uses a separate polling mechanism (ICMP ping) to gather reachability data, to that used to gather reboot and uptime metrics (SNMP polling). There are likely to be slight variations between the reachability and uptime values due to the different polling methods and polling cycles. Larger differences may indicate problems on the device, for example

discarding ICMP pings when a device is heavily utilized. Differences may also occur when Entuity has been offline and devices have rebooted in that period.

Using ICMP Ping to Identify Device Status

Entuity Availability Monitor sends an ICMP ping to the management IP address of managed devices, by default every two minutes. Devices that respond are considered reachable, those that do not respond, after the set number of retries, are considered unreachable. When Availability Monitor is not running, then the reachability of the device is Unknown for that period, although Entuity maintains the last known state of the device.

Device Status Report Options

Name	Description
<i>Server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>View</i>	Entuity view against which the report is to be run. From the drop down list you can select one or All Views to run the report against.

Table 146 Device Status Report Header

Device Status Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Reachability.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Server</i>	Entuity server against which the report was run. Configurable through Report Options when the Entuity server has one or more remote Entuity servers. You can select the server, individual servers or All Servers against which you want to run the report. Report Server populates <i>Please select a view</i> , with the views to which you have access on the selected server(s).
<i>View</i>	Entuity view against which the report was run. Configurable through Report Options.

Table 147 Device Status Report Header

Device Status Report Details

Name	Description
<i>Icon</i>	Device state icon. The report is sorted on device state, with the devices in the most critical state appearing earlier in the report.
<i>Name</i>	Resolved name or the IP address of the device.
<i>Device Type</i>	Device type.
<i>Polled IP</i>	Device's management IP address.
<i>Status</i>	Indicates the device reachable and available status.

Table 148 Device Status Report

Infrastructure Availability Report

Entuity Report



Infrastructure Device Availability

Printed on: 28 Oct 2014 13:20:40 GMT

Description: Details of Infrastructure Device reachability and uptime totals and outages

View: My Network

Devices: 21 (view contains 50 devices)

Over the period 13:00 on Mon Oct 27 2014 - 13:00 on Tue Oct 28 2014

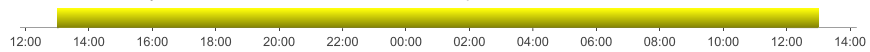
No prime time is set for this report

Reachable: ■ Unreachable: ■ Down: ■ Unknown: ■

10.44.2.56 on ENTLONPPVM01

Reachability = 0%

Uptime = No Data

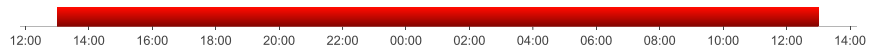


Reachability outage start	Reachability outage end	Duration
Mon Oct 27 13:00:00 GMT 2014	Tue Oct 28 13:00:00 GMT 2014	1d 0h 0m 0s

10.66.51.8 on ENTLONPPVM01

Reachability = 0%

Uptime = 0%



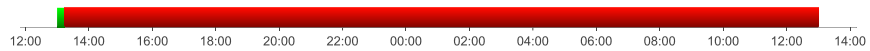
Reachability outage start	Reachability outage end	Duration
Mon Oct 27 13:00:00 GMT 2014	Tue Oct 28 13:00:00 GMT 2014	1d 0h 0m 0s

Uptime outage start	Uptime outage end	Duration
Mon Oct 27 13:00:00 GMT 2014	Tue Oct 28 13:00:00 GMT 2014	1d 0h 0m 0s

apcr1 on ENTLONPPVM01

Reachability = 100%

Uptime = 0.92%



Uptime outage start	Uptime outage end	Duration
Mon Oct 27 13:13:18 GMT 2014	Tue Oct 28 13:00:00 GMT 2014	23h 46m 42s

apcr2 on ENTLONPPVM01

Reachability = 100%

Uptime = 0.94%

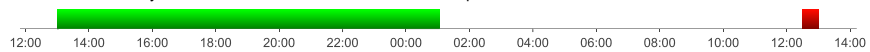


Uptime outage start	Uptime outage end	Duration
Mon Oct 27 13:13:29 GMT 2014	Tue Oct 28 13:00:00 GMT 2014	23h 46m 31s

entlonpcmc01 on ENTLONPPVM01

Reachability = 100%

Uptime = 97.89%



Uptime outage start	Uptime outage end	Duration
Tue Oct 28 12:29:33 GMT 2014	Tue Oct 28 13:00:00 GMT 2014	30m 27s

Figure 53 Infrastructure Availability Report

Infrastructure Availability Report Overview

Entuity uses a separate polling mechanism (ICMP ping) to gather Reachability data, to that used to gather Reboot and Uptime metrics (SNMP polling). There are likely to be slight variations between the Reachability and Uptime values due to the different polling methods and polling cycles. Larger differences may indicate problems on the device, for example discarding ICMP pings when a device is heavily utilized. Differences may also occur when Entuity has been offline and devices have rebooted in that period.

Using ICMP Ping to Identify Infrastructure Availability

Entuity Availability Monitor sends an ICMP ping to the management IP address of managed devices, by default every two minutes. Devices that respond are considered reachable, those that do not respond, after the set number of retries, are considered unreachable. When Availability Monitor is not running, then the reachability of the device is Unknown for that period, although Entuity maintains the last known state of the device.

Infrastructure Availability Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one or All Devices to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Only show devices with imperfect reachability or uptime</i>	Indicates whether all devices, or only those with imperfect reachability or uptime records are included to the report.
<i>Show tables of reachability and uptime outage periods</i>	Indicates whether the imperfect reachability or uptime tables are included to the report.

Table 149 Infrastructure Availability Report Header

Infrastructure Availability Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Infrastructure Availability.

Table 150 Infrastructure Availability Report Header

Name	Description
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run. Configurable through Report Options.
<i>Devices</i>	Indicates the number of devices included to the report, and the number within the view.
<i>Over the period</i>	Start and end dates and times over which the report is run. Configurable through Report Options.

Table 150 Infrastructure Availability Report Header

Infrastructure Availability Report Details

The bar chart on the report uses these metrics:

- **Unknown**, Entuity server is down.
- **Down**, which is the period of time the device is down. Entuity determines device outage by comparing its reboot time with the Entuity polling time. Entuity checks when the last reboot happened and:
 - If the reboot time is older than the last polling time then the device is considered as up for the polling interval.
 - If the reboot time is different between two successful consecutive Entuity polls it implies the device went up and down during the polling interval. Entuity takes the difference between the reboot time and the time of the poll prior to that, and assigns half the time as device down time and half as device uptime.
 - If there is a poll failure between a device reboot and the last successful poll before that time, then the device is considered as down for all of those unsuccessful poll intervals, apart from the first unsuccessful poll interval. Entuity assigns half of the first unsuccessful polling interval as device uptime and half as device down time.
- **Reachable**, the device has responded to the ping request.
- **Unreachable**, the device failed to respond to the ping request.

Although the reachability, down time and unknown metrics do not interact there is an order of precedence that determines how they are overlaid on the report availability bar chart. Reachable and Unreachable have the lowest precedence (and are therefore laid down first) followed by Down and with Unknown having the highest precedence.

Name	Description
<i>Name</i>	Resolved name or the IP address of the device
<i>Device Type</i>	Device type.
<i>Polled IP Address</i>	Device's management IP address.

Table 151 Infrastructure Availability Report

Name	Description
<i>Reachable</i>	Availability bar with reachability and uptime values, prime time values in brackets.
<i>Reachability table</i>	Indicates the start and end times of reachability outages. Duration column with reachability and uptime values, prime time values in brackets.

Table 151 Infrastructure Availability Report

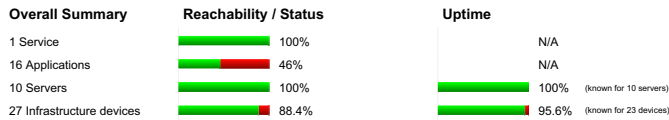
Network Delivery Perspective

Network Delivery Perspective (TM)



Network Delivery Summary

View: Regional Over the period 00:00 on Wed Nov 26 2012 - 00:00 on Thu Nov 27 2012



Services Summary

Services with outages: 0
 Total downtime: 0s
 Average downtime per service: 0s
[See detailed report for services](#)



Range	In the range	Total duration
0-50.0%	0 (0%)	0s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	0 (0%)	0s
95.0-100%	1 (100%)	0s

Applications Summary

Apps with outages: 12
 Total unreachability: 8d 15h 21m 36s
 Average unreachability per application: 12h 57m 36s
[See detailed report for applications](#)



Range	In the range	Total duration
0-50.0%	12 (75%)	8d 15h 21m 36s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	0 (0%)	0s
95.0-100%	4 (25%)	0s

Servers Summary

Servers with outages: 0
 Total unreachability: 0s
 Average unreachability per server: 0s
[See detailed report for servers](#)



Range	In the range	Total duration
0-50.0%	0 (0%)	0s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	0 (0%)	0s
95.0-100%	10 (100%)	0s

Infrastructure Devices Summary

Devices with outages: 7
 Total unreachability: 3d 3h 11m 20s
 Avg unreachability per device: 2h 47m 5s
[See detailed report for devices](#)



Range	In the range	Total duration
0-50.0%	3 (11.1%)	3d 0h 0m 0s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	2 (7.4%)	3h 5m 17s
95.0-100%	22 (81.5%)	6m 3s

Report Guide

- 1. Network Delivery Summary Report**
This redisplay the information in the Network Delivery Perspective in a form suitable for printing.
- 2. Service Availability Report**
This report identifies which Services have experienced outages. The times and durations of the outages are listed along with details of which components and/or sub-services were responsible.
- 3. Applications Availability Report**
This report identifies which Monitored Applications have experienced outages. Application reachability is monitored from Entuity servers using TCP port probing techniques. The total duration of the outages are listed along with details of which servers they are hosted on. Where the loss of Application reachability was observed to have been attributable to either the hosting server or network connections this is also indicated.
- 4. Server Availability Report**
This report identifies which Monitored Servers have experienced losses of reachability and/or uptime. Server reachability is monitored from Entuity servers using ping (ICMP loopback). Uptime is monitored using the sysUptime SNMP metric. The times and durations of the outages are displayed on a graphical timeline and listed in a tabular textual manner.
- 5. Infrastructure Device Availability Report**
This report identifies which routers, switches, firewalls and other non-server managed devices have experienced losses of reachability and/or uptime. Device reachability is monitored from Entuity servers using ping (ICMP loopback). Uptime is monitored using the sysUptime SNMP metric. The times and durations of the outages are displayed on a graphical timeline and listed in a tabular textual manner.

Figure 54 Network Delivery Perspective

Network Delivery Perspective Overview

The Network Delivery Perspective provides a high level, view based summary of network service delivery against four key components: services, applications, server devices and infrastructure devices. For each component it provides a summary of availability and latency, with a more detailed summary also including links to component specific availability reports. The perspective is also available in a layout suitable for printing.

You can access this perspective through **Reports > View Reports > Availability > Network Delivery Perspective** and **InSight Center > Network Delivery Perspective**.

Network Delivery Perspective Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 152 Network Delivery Perspective Report Options

Name	Description
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. By default this perspective views the previous day's data. ■ Range, you can enter start and end dates and times.

Table 152 Network Delivery Perspective Report Options

Network Delivery Perspective Header

Name	Description
<i>Report title</i>	Report title, e.g. Network Delivery Perspective.
<i>Server</i>	Entuity server against which the report was run.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 153 Network Delivery Perspective Header

Network Delivery Perspective Details

Name	Description
<i>Overall Summary</i>	A breakdown of reachability, status and uptime by services, applications, servers and infrastructure devices.
<i>Services Summary</i>	Provides access to the Service Availability report and a summary of service delivery: <ul style="list-style-type: none"> ■ <i>Services with outages</i>, number of services with outages. ■ <i>Total downtime</i>, total time across all services the service was down. ■ <i>Average downtime per service</i>, average time the services were down during the reporting period. ■ Pie chart displays a breakdown of service status.
<i>Applications Summary</i>	Provides access to the Applications Availability report and a summary of application delivery during the reporting period: <ul style="list-style-type: none"> ■ <i>Apps with outages</i>, number of applications with outages. ■ <i>Total unreachability</i>, total time across all applications the applications were unreachable. ■ <i>Average unreachability per application</i>, average time the applications were down. ■ Pie chart displays a breakdown of application reachability.

Table 154 Network Delivery Perspective

Name	Description
<i>Servers Summary</i>	<p>Provides access to the Service Availability report and a summary of server delivery during the reporting period:</p> <ul style="list-style-type: none"> ■ <i>Servers with outages</i>, number of servers with outages. A device is considered a server if it is a managed host, a VM platform or an unclassified device with at least one monitored application. ■ <i>Total unreachability</i>, total time across all servers the servers were unreachable. ■ <i>Average unreachability per server</i>, average time the servers were down. ■ Pie chart indicates the breakdown of server reachability.
<i>Infrastructure Devices Summary</i>	<p>Provides access to the Infrastructure Device Availability report and a summary of infrastructure service delivery during the reporting period:</p> <ul style="list-style-type: none"> ■ <i>Devices with outages</i>, number of devices with outages. ■ <i>Total unreachability</i>, total time across all devices the devices were down. ■ <i>Avg unreachability per device</i>, average time the devices were down. ■ Pie chart displays a breakdown of infrastructure device reachability.
<i>Report Guide</i>	<ul style="list-style-type: none"> ■ Provides descriptions and links to the network delivery reports: <ul style="list-style-type: none"> Network Delivery Summary Application Availability Server Availability Infrastructure Device Availability

Table 154 Network Delivery Perspective

Network Delivery Summary

Entuity Report

Network Delivery Summary



Printed on: 25 Nov 2009 21:01:38 GMT

Description: Summary of availability for services, applications, servers and infrastructure devices

View: Regional

Over the period 00:00 on Tue Nov 24 2009 - 00:00 on Wed Nov 25 2009

Overall Summary

4 Services		75%
34 Applications		27.5%
36 Servers		61.1%
102 Infrastructure devices		59.6%

Reachability / Status

Uptime

N/A
N/A
100% (known for 36 servers)
97.8% (known for 92 devices)

Services Summary

Services with outages:	0
Total downtime:	0s
Average downtime per service:	0s

[See detailed report for services](#)



Service status

Range	In the range	Total duration
0-50.0%	1 (25%)	0s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	0 (0%)	0s
95.0-100%	3 (75%)	0s

Applications Summary

Apps with outages:	25
Total unreachability:	24d 15h 21m 36s
Average unreachability per application:	17h 23m 34s

[See detailed report for applications](#)



Application reachability

0-50.0%	25 (73.5%)	24d 15h 21m 36s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	0 (0%)	0s
95.0-100%	9 (26.5%)	0s

Servers Summary

Servers with outages:	14
Total unreachability:	14d 0h 0m 0s
Average unreachability per server:	9h 20m 0s

[See detailed report for servers](#)



Server reachability

0-50.0%	14 (38.9%)	14d 0h 0m 0s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	0 (0%)	0s
95.0-100%	22 (61.1%)	0s

Infrastructure Devices Summary

Devices with outages:	47
Total unreachability:	41d 4h 21m 45s
Avg unreachability per device:	9h 41m 23s

[See detailed report for devices](#)



Infrastructure device reachability

0-50.0%	41 (40.2%)	41d 0h 0m 0s
50.0-85.0%	0 (0%)	0s
85.0-95.0%	2 (2%)	3h 37m 40s
95.0-100%	59 (57.8%)	44m 5s

Figure 55 Network Delivery Summary Report

Network Delivery Summary Overview

The Network Delivery Summary concisely displays details of services, applications, servers, and infrastructure device availability across the environment. You can configure which summary panels to include to the report. It displays in a printer suitable format the same information as the Network Delivery Perspective.

Network Delivery Summary Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Show Services Summary	Select to include the services summary panel to the report.
Show Applications Summary	Select to include the applications summary panel to the report.
Show Servers Summary	Select to include the servers summary panel to the report.
<i>Show Infrastructure Devices Summary</i>	Select to include the infrastructure devices summary panel to the report.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. By default this perspective views the previous day's data. ■ Range, you can enter start and end dates and times.

Table 155 Network Delivery Summary Report Options

Network Delivery Summary Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Network Delivery Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 156 Network Delivery Summary Header

Network Delivery Summary Details

Name	Description
<i>Overall Summary</i>	A breakdown of reachability, status and uptime by services, applications, servers and infrastructure devices.

Table 157 Network Delivery Summary

Name	Description
<i>Services Summary</i>	<p>Provides access to the Service Availability report and a summary of service delivery:</p> <p><i>Services with outages</i>, number of services with outages.</p> <p><i>Total downtime</i>, total time across all services the service was down.</p> <p><i>Average downtime per service</i>, average time the services were down during the reporting period.</p> <p>Pie chart displays a breakdown of service status.</p>
<i>Applications Summary</i>	<p>Provides access to the Applications Availability report and a summary of application delivery during the reporting period:</p> <p><i>Apps with outages</i>, number of applications with outages.</p> <p><i>Total unreachability</i>, total time across all applications the applications were unreachable.</p> <p><i>Average unreachability per application</i>, average time the applications were down.</p> <p>Pie chart displays a breakdown of application reachability.</p>
<i>Servers Summary</i>	<p>Provides access to the Service Availability report and a summary of server delivery during the reporting period:</p> <p><i>Servers with outages</i>, number of servers with outages. A device is considered a server if it is either a managed host or an unclassified device with at least one hosted application.</p> <p><i>Total unreachability</i>, total time across all servers the servers were unreachable.</p> <p><i>Average unreachability per server</i>, average time the servers were down.</p> <p>Pie chart indicates the breakdown of server reachability.</p>
<i>Infrastructure Devices Summary</i>	<p>Provides access to the Infrastructure Device Availability report and a summary of infrastructure service delivery during the reporting period:</p> <p><i>Devices with outages</i>, number of devices with outages.</p> <p><i>Total unreachability</i>, total time across all devices the devices were down.</p> <p><i>Avg unreachability per device</i>, average time the devices were down.</p> <p>Pie chart displays a breakdown of infrastructure device reachability.</p>
<i>Report Guide</i>	<p>Provides descriptions and links to the network delivery reports:</p> <ul style="list-style-type: none"> Network Delivery Summary Application Availability Server Availability Infrastructure Device Availability

Table 157 Network Delivery Summary

Outages Report

Entuity Report

Outages Report



Printed on: 17 Nov 2013 12:20:12 GMT

Description: All devices suffering outages

View: My Network

Over the period 00:00 on Sun Nov 10 2013 - 00:00 on Sun Nov 17 2013

No prime time is set for this report

Device: 10.44.12.12

Server: century.entuity.local **IP Address:** 10.44.12.12
System Name: SAF-FRCBE1-POA-CR01 **Rebooted:** No
Total Outage: 1 day 8 hrs 9 mins 53 secs

Outages

Tue Nov 12 17:53:23 GMT 2013 -> Tue Nov 12 17:53:46 GMT 2013 (23s)

Fri Nov 15 15:50:30 GMT 2013 -> Sun Nov 17 00:00:00 GMT 2013 (1d 8h 9m 30s)

Device still suffering an outage at the end of the report period.

Device: 10.44.44.44

Server: ppk **IP Address:** 10.44.44.44
System Name: madrid-routerb **Rebooted:** Yes
Total Outage: 1 day 18 hrs 23 mins 17 secs

Outages

Fri Nov 15 05:36:43 GMT 2013 -> Sun Nov 17 00:00:00 GMT 2013 (1d 18h 23m 17s)

Device still suffering an outage at the end of the report period.

Device: 10.44.53.254

Server: ppk **IP Address:** 10.44.53.254
System Name: supportTestRt1 **Rebooted:** Yes
Total Outage: 2 days 13 hrs 29 mins 30 secs

Outages

Thu Nov 14 10:30:30 GMT 2013 -> Sun Nov 17 00:00:00 GMT 2013 (2d 13h 29m 30s)

Device still suffering an outage at the end of the report period.

Figure 56 Outages Report

Outages Report Overview

By default this report lists all devices that have been down in the previous twenty-four hours, for the selected server(s) view:

- For each device the total time of the outage during the reporting period and also during prime time within the reporting period.

- For each device outage the length of that outage and also the length of that outage that occurred within prime time.
- Listed items now sorted by device name with a secondary sort on server name.

Outages Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one or All Views to run the report against.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 158 Outages Report Header

Outages Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Outages.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Report Period</i>	Start and end dates and times over which the report is run.

Table 159 Outages Report Header

Outages Report Details

Name	Description
<i>Device</i>	Resolved name or the IP address of the device.
<i>System Name</i>	Device description.
<i>IP Address</i>	Device's management IP address.
<i>Rebooted</i>	Indicates whether the device was rebooted during the reporting period.
<i>Outages</i>	Start and end time of the outage. The report also indicates whether the device is currently down.

Table 160 Outages Report

Port Operational States Report

Entuity Report

Port Operational States



Printed on: 8 Oct 2009 20:45:04 BST

Description: Port Operational States for physical device ports

View: Regional

Server: COMPRESSOR		
10.44.1.254		
	Port Id	Time in state
✓	[00001] ncmac0	30 mins 5 secs
✗	[00002] ppp0	112 days 9 hrs 45 mins 5 secs

Figure 57 Port Operational States Report

Port Operational States Report Overview

This report lists all ports and their current operational state for the selected device.

Port Operational States Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.

Table 161 Port Operational States Report Options

Port Operational States Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Operational States.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 162 Port Operational States Report Header

Port Operational States Report Details

Name	Description
<i>Server</i>	Name of the Entuity server managing the device.
<i>Device</i>	Name of the device.
<i>Operational state</i>	Indicates the operational state, up when the indicator is green, down when the indicator is red.
<i>Port Id</i>	Port identifier.
<i>Time in state</i>	Time the port has been in its current state.

Table 163 Port Operational States Report

Port Availability Report

Entuity Report

Port Availability



Printed on: 14 Mar 2013 15:50:08 GMT

Description: Summary of Port Availability

View: My Network

Over the period 15:00 on Wed Mar 13 2013 - 15:00 on Thu Mar 14 2013

No prime time is set for this report

Availability Summary for My Network	Reachability (Mean)	Availability (Mean)
Overall Port Availability (Mean)	21.38%	70.00%

Availability Details, sorted by % Availability Ports with full availability excluded Ports are Admin Down excluded						
Device Name	Interface Description	Outages	Reachability	Availability	Longest Outage	Total Downtime
10.66.20.2	[00002] Port 2	1	21.77%	0.00% ^{+0.00} _{-0.00}	1.0days	1.0days
10.66.20.2	[00003] Port 3	1	21.77%	0.00% ^{+0.00} _{-0.00}	1.0days	1.0days
cisco-c2950-c3.vendor.entuity.lab	[Fa0/5] *** Connection to NetScout Probe ***	1	21.06%	0.00% ^{+0.00} _{-0.00}	1.0days	1.0days

Availability Details, sorted by % Reachability Ports with full reachability excluded Ports are Admin Down excluded						
Device Name	Interface Description	Outages	Reachability	Availability	Longest Outage	Total Downtime
cisco-c2950-c3.vendor.entuity.lab	[VL1] VLAN1	0	21.06%	100.00% ^{+0.00} _{-0.00}	0.0mins	0.0mins
cisco-c2950-c3.vendor.entuity.lab	[Fa0/1] *** Connection to lonwhs01r07 fa1/0/0 ***	0	21.06%	100.00% ^{+0.00} _{-0.00}	0.0mins	0.0mins
cisco-c2950-c3.vendor.entuity.lab	[Fa0/2] *** Connection to GBN Router RCLON003 F1/1/0 ***	0	21.06%	100.00% ^{+0.00} _{-0.00}	0.0mins	0.0mins
cisco-c2950-c3.vendor.entuity.lab	[Fa0/3] *** Connection to lonwhs01h02 ***	0	21.06%	100.00% ^{+0.00} _{-0.00}	0.0mins	0.0mins
cisco-c2950-c3.vendor.entuity.lab	[Fa0/4] *** Connection to Sniffer ***	0	21.06%	100.00% ^{+0.00} _{-0.00}	0.0mins	0.0mins
cisco-c2950-c3.vendor.entuity.lab	[Fa0/5] *** Connection to NetScout Probe ***	1	21.06%	0.00% ^{+0.00} _{-0.00}	1.0days	1.0days
10.66.20.2	[00001] Port 1	0	21.77%	100.00% ^{+0.00} _{-0.00}	0.0mins	0.0mins
10.66.20.2	[00002] Port 2	1	21.77%	0.00% ^{+0.00} _{-0.00}	1.0days	1.0days
10.66.20.2	[00003] Port 3	1	21.77%	0.00% ^{+0.00} _{-0.00}	1.0days	1.0days
10.66.20.1	[00001] Ctron SEHI EnetPort	0	22.09%	100.00% ^{+0.00} _{-0.00}	0.0mins	0.0mins

Availability Charts

There are no charts included in this report. This is either because user chose not to, or there were no ports, or because none of the charts would have contained useful information, i.e. the port was in the same state for the whole of the report period.

Figure 58 Port Availability Report

Port Availability Report Overview

The Port Availability report uses two key metrics:

- Availability is a calculated measure of the port's availability during the reporting period. It has one of three states, Up, Down and Unknown (?). Entuity uses two MIB variables for this report: the operational state of the port (ifOperState) and the last time that the port's

state changed (ifLastChangeTime). Since the polling is scheduled at regular intervals, the ifLastChangeTime read on a successful poll provides the actual time at which the current state was entered.

The availability calculation is supplemented through monitoring of the port's Port Link Up and Port Link Down SNMP traps. These indicate the state of the port between pollings. SNMP trap forwarding on the device must be enabled.

- Reachability is the proportion of time that Entuity can confirm the port is reachable during the reporting period. A port is considered reachable when Entuity successfully polls the port's ifOperState, unreachable if it cannot.

Entuity calculates reachability using the state (ifOperState) information retrieved during polling. If a null poll occurs, then the reachability figure is affected by the time stamp for the poll. For example consider hourly polling and a report over an hourly period. Say the hourly poll occurs at 15 minutes past the hour and that Entuity polls in the hours before, during and after the report period. Furthermore, say the poll before was null, the poll during was valid and the poll after was null. Then reachability is 75% since the null poll can account for 25% of the reportable hour, but the valid poll at 15 minutes past the hour renders the component reachable for the remaining time.

By default the report:

- Restricted to router (WAN) ports, but the port filter can be amended to include all ports or restricted to other types of ports, e.g. leased line, frame relay
- Does not include ports that are 100% available in the Reachability and Availability tables, but does include these ports in the mean totals for port Reachability and Availability.

Unlike other Entuity availability measures that are based on results from ping, this report's information is derived from both SNMP polling of port MIB variables and SNMP traps received by Entuity.



Entuity retains data for the Port Availability report for the last fourteen days, i.e. reports can only be run over the last fourteen days. The retention time can be extended by amending the configuration.

The report displays statistics in Header, Executive Summary, Port Details table and Port Details graph sections.

Port Availability Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 164 Port Availability Report Options

Name	Description
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Maximum displayed ports</i>	Number of ports to include to the report.
Use device system name	
Include ports with full availability	
Include ports that are Admin Down	
Display Availability Charts	
Exclude Virtual Ports	
Exclude Spare Ports	
Exclude Host Ports	
Exclude Core Ports	
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ From you can enter start and end date and time.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 164 Port Availability Report Options

Port Availability Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Operational States.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 165 Port Availability Report Header

Port Availability Report Details

Executive Summary

Executive Summary presents the overall mean average availability and reachability for all ports in the current view that are of the same type as port's included in the report. For example, by default the report only reports on router reports. Entuity excludes from the

Availability and Reachability tables router ports that are 100% available, but the mean average totals includes those ports.

Port Details Tables

Port Details tables sorted by availability, with hyperlinks to the availability graphs of ports that have change(s) in availability status during the reporting period.

<i>Device Name</i>	By default the object's sysname, although through report parameters this can be amended if required.
<i>Interface Description</i>	Description of the device interface.
<i>Outages</i>	Number of outages during the reporting period.
<i>Reachability</i>	Proportion of time that Entuity can confirm the port is reachable during the reporting period. <i>Reachability</i> is calculated over the period Entuity attempts to poll the port. When a report period starts before this time, e.g. before Entuity managed the port, the reachability value only applies to the polling period. For example, when a port is discovered on day three of a five day reporting period, but is 100% reachable from that time on, the report shows the port as being 100% reachable. Entuity makes a similar adjustment when the end of the reporting period is later than the last known data for the port.

Table 166 Port Availability Tables

<i>Availability</i>	<p>Proportion of time that Entuity can confirm the port is available during the reporting period. Confirmation is through polling of the port and monitoring of the port's SNMP traps.</p> <p>A port's SNMP traps allow Entuity to monitor port availability between pollings. <i>Availability</i> takes the polling data, e.g. the port was up when polled at 01:00 and 02:00 and supplement it with information from traps e.g. a Port Link Down trap was sent at 01:01 and a Port Link Up trap was sent at 01:59.</p> <p>Availability is usually calculated over the period Entuity attempts to poll the port. When a report period starts before this time the availability value applies to the polling period plus the period prior to this for which the port state is known. So, from the first poll Entuity takes the port's time of last state change. For example, when a port is discovered on day three of a five day reporting period, but is 100% available from that time on, the report shows the port as being 100% available. When the port's last state change was on day two of the reporting period then the graph shows data for four days.</p> <p>Entuity makes a similar adjustment when the end of the reporting period is later than the last poll of the port, for example a report is run up to the current hour before the polls for that last hour are complete. When a port generates a trap after the last poll but before the end of the reporting period Availability is calculated up to the time of the last trap.</p> <p>Entuity presents three availability values:</p> <ul style="list-style-type: none"> ■ Availability value, which shows the proportion of time the port is available compared to unavailable. ■ Upper boundary value, which shows the maximum possible margin of error when port unknown time is considered as available. ■ Lower boundary value, which shows the maximum possible margin of error when unknown time is considered as downtime.
<i>Longest Outage</i>	Longest outage during the reporting period, unless prime time is set when it's the longest outage during a single prime time period within the reporting period.
<i>Total Downtime</i>	Total downtime during the reporting period, unless prime time is set when it's the total downtime during prime time period within the reporting period.

Table 166 Port Availability Tables



Entuity's Change History tool shows port availability through polling and the Link Status tool shows port availability as indicated by SNMP traps (see the *Entuity User Guide*).

Port Availability Graphs

Entuity generates availability graphs for ports that have changing states during the reporting period, i.e. they are neither 100% or 0% available. The table repeats port details from the summary Availability and Reachability tables, and includes hyperlinks back to the Availability tables.

The graphs are stepped line graphs that indicate port availability, specifically the length of time a port is in each of the three states, **Down**, **Unknown (?)** and **Up**. When Prime Time is configured gray bands indicate the Prime Time period.

Server Availability Report

Entuity Report

Server Availability



Printed on: 17 Nov 2013 12:02:47 GMT

Description: Details of server reachability and uptime totals and outages

View: My Network

Servers: 11

Over the period 00:00 on Sun Oct 20 2013 - 00:00 on Sun Nov 17 2013

No prime time is set for this report

Reachable: ■ Unreachable: ■ Down: ■ Unknown: ■

ciscomcs7835h2.vendor.entuity.lab

Reachability = 99.95% Uptime = 100%



Reachability outage start	Reachability outage end	Duration
Thu Nov 07 12:44:13 GMT 2013	Thu Nov 07 13:01:42 GMT 2013	17m 29s
Thu Nov 07 13:48:09 GMT 2013	Thu Nov 07 13:49:42 GMT 2013	1m 33s

ciscomcs7845h.vendor.entuity.lab

Reachability = 99.95% Uptime = 100%



Reachability outage start	Reachability outage end	Duration
Thu Nov 07 12:44:13 GMT 2013	Thu Nov 07 13:01:42 GMT 2013	17m 29s
Thu Nov 07 13:48:09 GMT 2013	Thu Nov 07 13:49:42 GMT 2013	1m 33s

cisco-wsle.vendor.entuity.lab

Reachability = 99.95% Uptime = 100%



Reachability outage start	Reachability outage end	Duration
Thu Nov 07 12:44:13 GMT 2013	Thu Nov 07 13:01:42 GMT 2013	17m 29s
Thu Nov 07 13:48:09 GMT 2013	Thu Nov 07 13:49:42 GMT 2013	1m 33s

f5-bigip-4.2ptf.vendor.entuity.lab

Reachability = 99.95% Uptime = 100%



Reachability outage start	Reachability outage end	Duration
Thu Nov 07 12:44:13 GMT 2013	Thu Nov 07 13:01:42 GMT 2013	17m 29s
Thu Nov 07 13:48:09 GMT 2013	Thu Nov 07 13:49:42 GMT 2013	1m 33s

Figure 59 Server Availability Report

Server Availability Report Overview

Server Availability Report presents for the selected view and time period all servers within that view and their availability over the period. A server is a Managed Host, a VM Platform or an unclassified device with applications. For each server a stack chart represents the availability status of the server during the reporting period.

Server Availability Report Options

Name	Description
<i>Server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a View</i>	From the drop down list you can select one view to run the report against.
<i>Please select a server device</i>	From the drop down list Entuity displays the available server devices. Server devices are: <ul style="list-style-type: none"> ■ Managed Hosts ■ Unclassified devices with monitored applications ■ VM Platforms. You can run the report against one or All devices.
<i>Only show servers with imperfect reachability or uptime</i>	When selected only those with imperfect reachability or uptime records are included to the report, otherwise all are servers are included to the report.
<i>Show tables of reachability and uptime outage periods</i>	When selected imperfect reachability or uptime tables are included to the report, otherwise they are not included.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ From you can enter start and end date and time.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 167 Server Availability Report Options

Server Availability Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Server Availability.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Servers</i>	Number of servers in the view.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Identifies the reporting period.

Table 168 Server Availability Report Header

Server Availability Report Details

For each server device the report charts its availability status.

Name	Description
<i>Name</i>	Resolved name or the IP address of the device.
<i>Reachability</i>	Two measures of reachability, the percentage of time the server was reachable during the: <ul style="list-style-type: none"> ■ Reporting period. ■ Set prime time within the reporting period.
<i>Uptime</i>	Percentage of time the server was up during the reporting period, prime time values in brackets.
<i>Reachability table</i>	Charts and tabulates the start times, end times and duration of reachability outages.
<i>Uptime table</i>	Charts and tabulates the start times, end times and duration of uptime outages.
<i>Reachable</i>	Indicates whether the device is Reachable , Unreachable , Down and Unknown .

Table 169 Server Availability Report Details

Device Uptime, Reachability and Last Reboot Report

Entuity Report

Device Uptime, Reachability and Last Reboot Time



Printed on: 17 Nov 2013 12:16:48 GMT

Description: Device Uptime and Reachability and the Last Reboot Time if it occurred within the report period

View: My Network

Over the period 00:00 on Sun Nov 03 2013 - 00:00 on Sun Nov 17 2013

No prime time is set for this report

Sort by: Uptime

Device name	Device type	Manufacturer / model	Uptime %	Reachability %	Last reboot within timeframe
stealth2	Autonomous WAP	Netgear / Stealth2	0	0	
w2	Autonomous WAP	cisco / WAP4410N-E	0	0	
eolus	Router	cisco / 7206VXR	0	0	
10.44.53.254	Router	cisco / 1720	64.02	38.09	Tue Nov 05 12:33:00 2013
10.44.44.44	Router	cisco / 3640	87.38	41.34	
selenium	Router	cisco / n/a	88.64	92.91	
10.44.12.12	Unclassified (Full)	Hewlett Packard / 1810G	90.43	99.99	Tue Nov 12 17:53:46 2013
brotherm	Unclassified (Full)	Brother Industries Ltd. / NC-6500h	99.97	100	Fri Nov 15 13:52:50 2013
entlonsw03	Ethernet Switch	cisco / WS-C3750X-48P-L	99.99	100	Thu Nov 07 12:15:21 2013
r2610	Router	cisco / C2621XM-2FE	100	100	Thu Nov 07 15:04:51 2013
bottom2960	Ethernet Switch	cisco / WS-C2960-24TT-L	100	100	Thu Nov 07 13:03:58 2013
10.66.24.1	Autonomous WAP	cisco / AP1210	100	100	
crossbeam-firewall.vendor.entuity.lab	Firewall	Crossbeam Systems Inc. / X45	100	100	
HPCOL1	Ethernet Switch	Hewlett Packard / C.25.80	100	100	
10.44.1.49	Managed Host	Dell Computer Corporation / n/a	100	100	
shiva-6.120.vendor.entuity.lab	VPN	Shiva Corporation / 3110	100	100	
top3550	Ethernet Switch	cisco / WS-C3550-24-EMI	100	100	
nokia-fw	Firewall	Nokia / General Software	100	100	
microsemi-midspan-12-port-ac-dc.vendor.entuity.lab	PoE Midspan Injector	Microsemi / midspan_12_port_AC_DC	100	100	
bottom3550	Ethernet Switch	cisco / WS-C3550-24-EMI	100	100	
bvt	Blade Center	IBM / 1XX	100	100	
10.44.12.10	Ethernet Switch	cisco / pc11tmvpod02.us.dell.com	100	99.99	
buildervm	Managed Host	VMware Inc. / 5.0.0	100	100	
10.66.13.22	Load Balancer	F5 Networks, Inc. / Big IP Optimus	100	100	
jupiter	Managed Host	VMware Inc. / 5.0.0	100	100	
cisco-waas.vendor.entuity.lab	Wide Area Application Service	cisco / OE-511	100	100	
e2821.entuity.local	Router	cisco / 2821	100	100	
r7204	Router	cisco / 7204VXR	100	100	
c3560	Ethernet Switch	cisco / WS-C3560-24TS-E	100	100	
10.44.1.249	Unclassified (Full)	Brother Industries Ltd. / NC-230h	100	100	
blade	Managed Host	VMware Inc. / 4.0.0	100	100	
10.66.13.25	Load Balancer	F5 Networks, Inc. / Big IP VIPRION	100	100	
10.44.1.62	Managed Host	Hewlett Packard / C.25.80	100	100	
pluto	Managed Host	VMware Inc. / 4.1.0	100	100	
10.44.1.65	Uninterruptible Power Supply	American Power Conversion Corp. / (MB.v3.8.6	100	100	
top2960	Ethernet Switch	cisco / WS-C2960-24TT-L	100	100	
new2610	Router	cisco / 2651XM	100	100	Thu Nov 07 15:29:42 2013
contivity1700.vendor.entuity.lab	VPN	New Oak Communications Inc. / V04_76.023	100	100	

Page 1 of 2

Figure 60 Device Uptime, Reachability and Last Reboot Report

Device Uptime, Reachability and Last Reboot Report Overview

This report details device Uptime, Reachability and Reboots.

Entuity uses a separate polling mechanism (ICMP ping) to gather Reachability data, to that used to gather Reboot and Uptime metrics (SNMP polling). There are likely to be slight variations between the Reachability and Uptime values due to the different polling methods and polling cycles. Larger differences may indicate problems on the device, for example:

- A lower reachability value than the uptime value may indicate the device is discarding ICMP pings because it is heavily utilized.
- A lower uptime value than the reachability value may indicate a problem with the SNMP service on the device, maybe it is suspended or down; Entuity requires SNMP to fully manage a device.

Apparently incongruous differences in Uptime, Reachability and Reboot metrics may also occur when Entuity has been offline and devices have rebooted in that period.

Device Uptime, Reachability and Last Reboot Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort by</i>	Indicates the metric on which the devices in the report are ordered, i.e. Uptime, Reachability, Device Name.
<i>Only show devices with imperfect reachability or uptime</i>	When selected only includes devices to the report that have did not have complete reachability or uptime during the reporting period.
<i>Report Period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 170 Device Uptime, Reachability and Last Reboot Report Options

Device Uptime, Reachability and Last Reboot Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.

Table 171 Device Uptime, Reachability and Last Reboot Report Header

Name	Description
<i>Report title</i>	Report title, e.g. Device Uptime, Reachability and Last Reboot.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Only show devices with imperfect reachability or uptime</i>	When selected only includes devices to the report that have did not have complete reachability or uptime during the reporting period.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>Sort by</i>	Indicates the metric on which the devices in the report are ordered, i.e. Uptime, Reachability, Device Name.

Table 171 Device Uptime, Reachability and Last Reboot Report Header

Device Uptime, Reachability and Last Reboot Report Details

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Device Type</i>	Device type.
<i>Manufacturer / Model</i>	Device manufacturer and device model.
<i>Uptime %</i>	Time the device was up as a percentage of the reporting period, with its percentage uptime during prime time in brackets.
<i>Reachability %</i>	Time the device was reachable as a percentage of the reporting period, with its percentage uptime during prime time in brackets.
<i>Last reboot within timeframe</i>	Time of the last reboot within the reporting period.

Table 172 Device Uptime, Reachability and Last Reboot Report

5 Branch Office Perspective Reports

This set of reports provides access to the data available through the Branch Office Perspective suite. Branch Office suite requires a specific view configuration for the perspective and report to run correctly. (See the *Entuity User and System Administrator Guide*.)

Running Branch Office Perspective Reports

You can run these reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Branch Office Perspective**. Entuity displays the list of available reports.

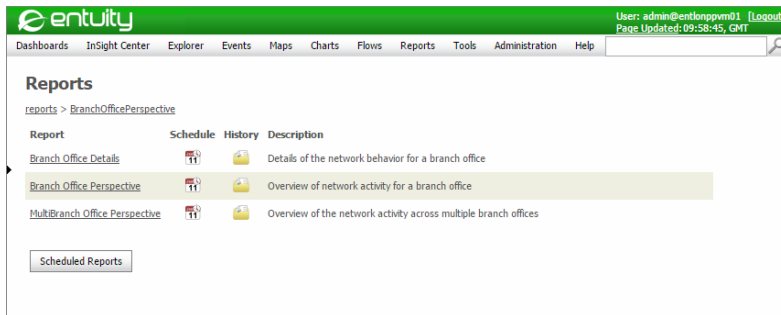


Figure 61 Branch Office Perspective Reports

Branch Office Details Report

Entuity Report

Branch Office Details



Description: Details of the network behavior for a branch office

View: Berlin

Over the period 12:26 on Mon Jul 12 2010 - 12:26 on Tue Jul 13 2010

No prime time is set for this report

Printed on: 13 Jul 2010 12:26:05 BST

Branch Office Connectivity

Connectivity on COMPRESSOR

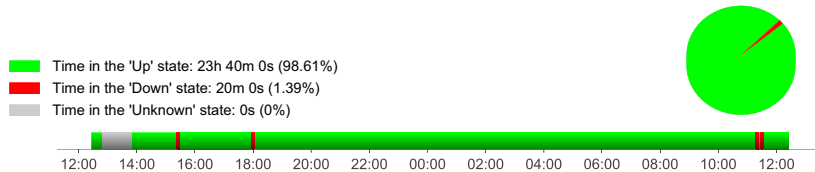
Components: (And)

Port: [Gi0/0] to 10.44 lan on e2821

Port: [Gi0/1] GigabitEthernet0/1 on e2821

Port: [2/1] TRUNK to lonsw02 on lonsw01

Port: [2/1] TRUNK to lonsw02 on lonsw03



e2821: [Gi0/0] to 10.44 lan

100 Mbps

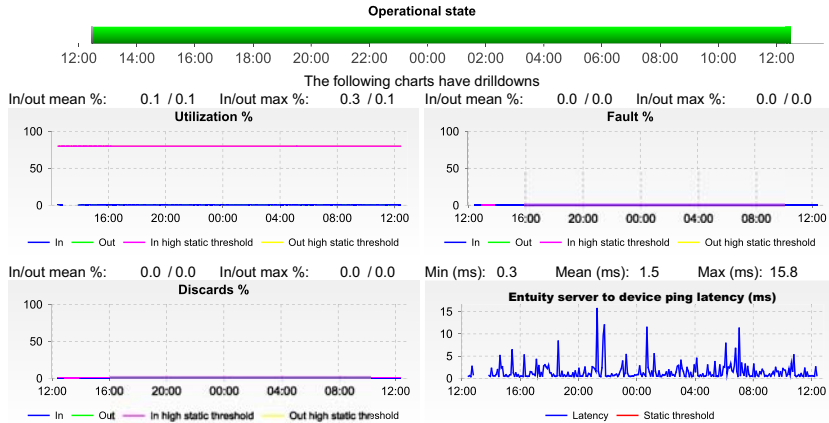


Figure 62 Branch Office Details Report

Branch Office Details Overview

The Branch Office Details report breakdowns branch network connectivity using three type of information:

- Branch Connectivity, with detailed time series charts for WAN ports. You can click on a WAN port chart line to launch the corresponding interactive chart.
- Device Reachability.

- Service Delivery through Cisco IP SLA Operations. You can click on an IP SLA color ribbon, to open the IP SLA Details report which reports on the same operation in the selected timeframe but with a ten times zoom.



Branch Office suite requires a specific view configuration for the perspective and report to run correctly. (See the *Entuity User and System Administrator Guide*.)

Branch Office Details Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 173 Branch Office Details Options

Branch Office Details Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 174 Branch Office Details Header

Branch Office Details

Name	Description
Branch Office Connectivity	Indicates the subsequent charts graph measures of connectivity.
Server Name	Name of the Entuity server.
Components	List of ports, and their logical operator, that form the branch office connectivity with the external world.
Timeline	Connectivity timeline that shows the state of the connectivity components over the reporting period, i.e. Up, Down and Unknown. The total time within the reporting period the connectivity link was in each state is also displayed.
Port	For each port within the connectivity link, Entuity presents a connectivity section.
Port Timeline	Connectivity timeline that shows the state of the port over the reporting period, i.e. Up, Down and Unknown. The total time within the reporting period the port was in each state is also displayed.
Utilization %	Indicates port inbound and outbound utilization as a percentage of port speed. The chart also includes the static high inbound and outbound thresholds, transgressions of which change the reported port utilization state. You can also click on the lines in the chart to open the data in an interactive graph.
Fault %	Indicates port inbound and outbound faults as a percentage of total inbound and outbound packets, respectively. The chart also includes the static high inbound and outbound thresholds, transgressions of which change the reported port fault state. You can also click on the lines in the chart to open the data in an interactive graph.
Discards %	Indicates port inbound and outbound discards as percentages of port total inbound and outbound packets, respectively. The chart also includes the static high inbound and outbound thresholds, transgressions of which change the reported port discards state. You can also click on the lines in the chart to open the data in an interactive graph.
Entuity server to device ping latency	Indicates latency from the Entuity server to the device. The chart also includes the static threshold, transgressions of which change the reported port latency state. You can also click on the lines in the chart to open the data in an interactive graph.
Device Reachability	Indicates the subsequent charts graph the reachability of devices in the branch office view.
<i>Device name</i>	Identifier of the device, e.g. host name or IP address.

Table 175 Branch Office Details

Name	Description
Reachability %	The length of time the device responds to ping as a percentage of the reporting period.
Unreachable Time	The length of time the device was unreachable during the reporting period.
SLA Quality	
IP SLA Name	Name of the IP SLA object defined in Entuity.
<i>Min RTT</i>	Minimum successful round trip completion time.
<i>Max RTT</i>	Maximum successful round trip completion time.
<i>Mean RTT</i>	Mean average of successful round trip completion times.
Success	Operator success as a percentage of total created operators. For a new operator, its first instance always fails.
Threshold	Indicates the event threshold level, or whether it is disabled.
Timeline	Operator timeline that shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success.
Echo Operator Chart	
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drilldown to the next sample level.
<i>Min RTT</i>	Minimum successful round trip completion time.
<i>Max RTT</i>	Maximum successful round trip completion time.
<i>Mean RTT</i>	Mean average of successful round trip completion times.
Success	Operator success as a percentage of total created operators. For a new operator, its first instance always fails.
Threshold	Indicates the event threshold level, or whether it is disabled, DNS translation time, TCP connect time and HTTP download time.
Chart	Chart displays threshold level, ping success and average round trip time.
HTTP Operator Chart	
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drilldown to the next sample level.
<i>Min RTT</i>	Minimum successful round trip completion time.
<i>Max RTT</i>	Maximum successful round trip completion time.
<i>Mean RTT</i>	Mean average of successful round trip completion times.
Success	Operator success as a percentage of total created operators. For a new operator, its first instance always fails.
Threshold	Indicates the event threshold level, or whether it is disabled, DNS translation time, TCP connect time and HTTP download time.
Chart	Chart displays threshold level, total operation time.

Table 175 Branch Office Details

Name	Description
UDP, TCP, DNS Operator Charts	These operators use the same style of chart.
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drilldown to the next sample level.
Chart	Chart displays threshold level and total operation time.
Jitter Operator Charts	Three charts, Loss, Delay and Jitter.
Operator timeline	Operator timeline shows the state of the operator over the reporting period, i.e. Unknown, Failed, Over threshold and Success. It allows drilldown to the next sample level.
Loss chart	Loss chart displays Total loss, Loss from source to destination and Loss from destination to source.
Jitter chart	Jitter chart displays Average Jitter from source to destination and Average Jitter from destination to source.
Delays chart	Delays chart displays threshold, Round trip time, Delay from source to destination and Delay from destination to source.

Table 175 Branch Office Details

Branch Office Perspective

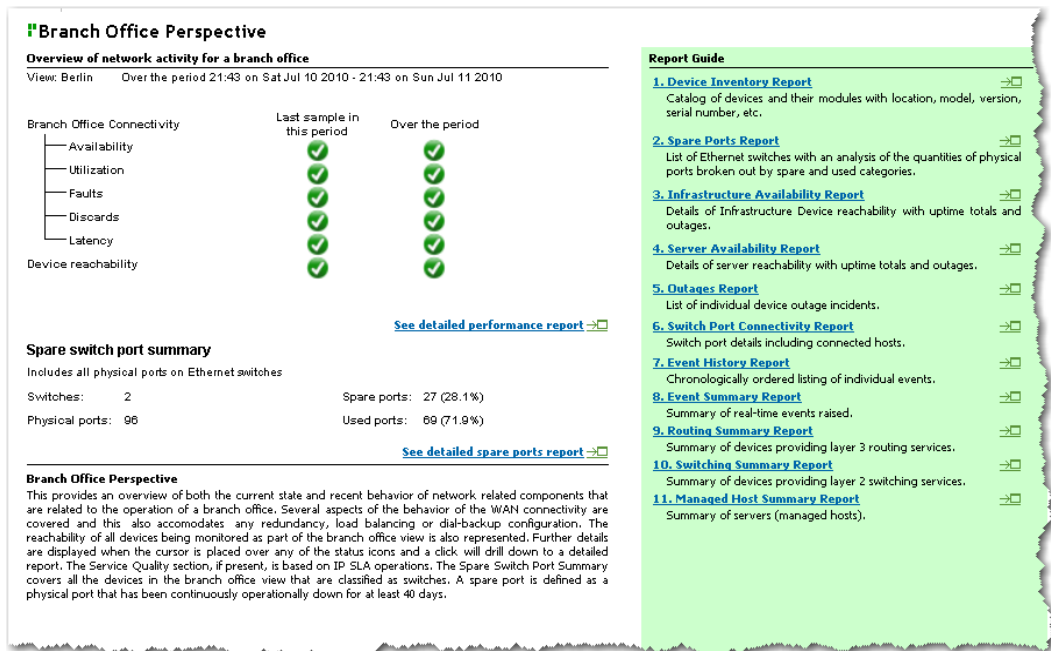


Figure 63 Branch Office Perspective

Branch Office Perspective Overview

The Branch Office Perspective provides an overview of both the last sample and recent health of the network equipment at the selected branch office, allowing for easy discrimination of current and longer term issues.



Branch Office suite requires a specific view configuration for the perspective and report to run correctly. (See the *Entuity User and System Administrator Guide*.)

Several aspects of the behavior of the WAN connectivity are covered and this also accommodates any redundancy, load balancing or dial-backup configuration. The reachability of all devices being monitored as part of the branch office view is also represented. Further details are displayed when the cursor is placed over any of the status icons, with drill down to the Branch Office Details report also available.

The report only includes an SLA quality section when the view includes Cisco IP SLA operations. Where multiple operations are configured for a branch office their results are listed separately, with drill downs to the IP SLA Details report available.

The Spare Switch Port Summary section covers all the devices in the branch office view that are classified as switches. There is also access to the Spare Ports report. A spare port is defined as a physical port that has been continuously operationally down for at least 40 days.

The green report guide panel provides report launch facilities in the context of the selected branch office view.

Branch Office Perspective Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a branch office view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 176 Branch Office Perspective Options

Branch Office Perspective Header

Name	Description
<i>Report title</i>	Report title, e.g. Branch Office Perspective.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 177 Branch Office Perspective Header

Branch Office Perspective Details

This report provides an overview of branch performance, using icons to indicate metric performance over the last sample and over the reporting period. Each icon is also a hyperlink that opens the Branch Office Details report, or for the Cisco IP SLA icons the IP SLA Details report.

Name	Description
<i>Availability</i>	Availability icons indicate the state of the connectivity service, as provided by all of the Branch Office connectivity links. There are two measures, over the last sample and over the reporting period.
<i>Utilization</i>	Utilization icons indicate threshold crossings, high or low, on any of the Branch Office connectivity links, during the last sample and over the reporting period.

Table 178 Branch Office Perspective Details

Name	Description
Faults	Faults icons indicate threshold crossings, e.g. level of packet corruption and transmit errors, on any of the Branch Office connectivity links, during the last sample and over the reporting period.
<i>Discards</i>	Discards icons indicate threshold crossings, e.g. a high level of port data loss within routers, on any of the Branch Office Connectivity links, during the last sample and over the reporting period.
Latency	Latency icons indicate the state of threshold crossings for the ICMP echo (ping) round trip latency as measured between the Entuity server and the devices used to implement the Branch Office connectivity links during the last sample and over the reporting period.
<i>Device Reachability</i>	Reachability icons indicate overall device reachability, during the last sample and over the reporting period.
SLA Quality	For each IP SLA an icon indicates the state of the operation during the last sample and over the reporting period.
Switches	Number of ethernet switches in the view.
Physical Ports	Number of ethernet switch physical ports within the view.
Spare Ports	Number of switch spare ports within the view, expressed as both a count and as a percentage of the total number of switch ports in the view. A spare port is considered one that has been continuously operationally down for the last forty or more days.
Used Ports	Number of switch used ports within the view, expressed as both a count and as a percentage of the total number of switch ports in the view.

Table 178 Branch Office Perspective Details

Multiple Branch Office Perspective

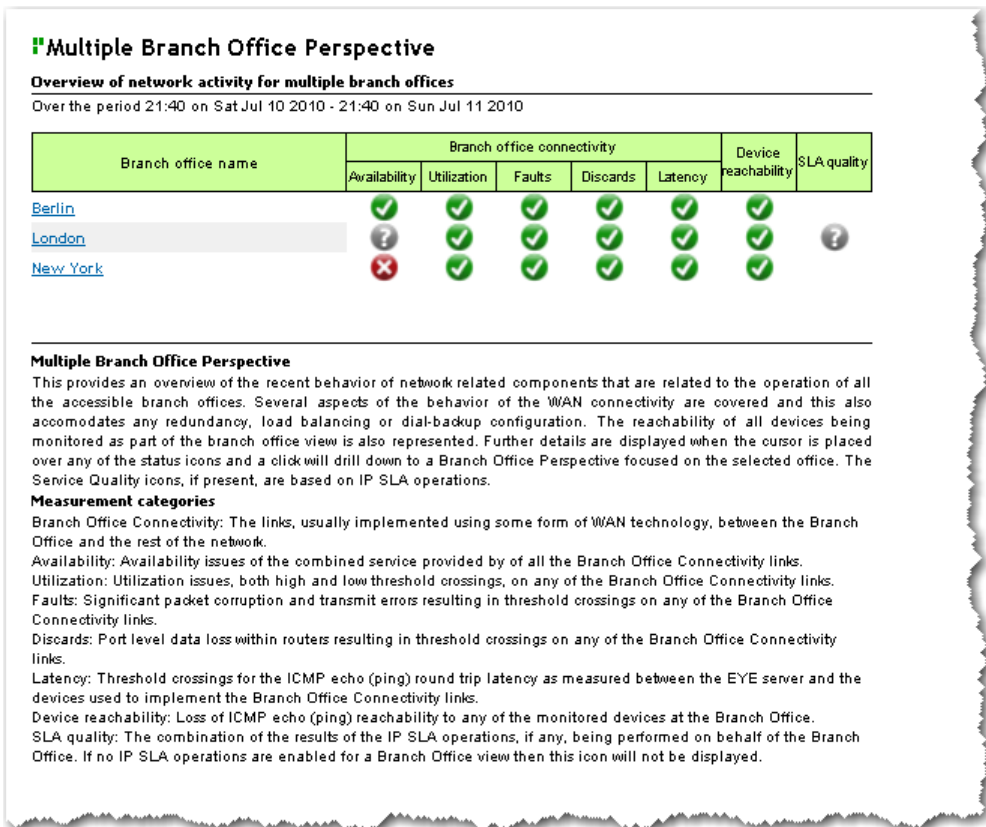


Figure 64 Multiple Branch Office Perspective

Multiple Branch Office Perspective Overview

Multiple Branch Office Perspective, provides an overview of the health of the network equipment in all of the branch offices that are accessible to the user. For each branch office you can drill down to the Branch Office Perspective, which inherits its timeframe from the Multiple Branch Office Perspective. From each icon you can drill down to the Branch Details report, click on a:

- connectivity icon, and the report details all of the connectivity measures for the branch.
- reachability icon, and the report details device reachability for the branch.
- SLA Quality icon, and the report details all of the Cisco IP SLA operators for the branch.



Branch Office suite requires a specific view configuration for the perspective and report to run correctly. (See the *Entuity User and System Administrator Guide*.)

Multiple Branch Office Perspective Report Options

Name	Description
<i>Report Period</i>	By default the period over which the report applies is set to the last twenty-four hours (1440 minutes). When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 179 Multiple Branch Office Perspective Header

Multiple Branch Office Perspective Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Multiple Branch Office Perspective.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time Definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 180 Multiple Branch Office Perspective Header

Multiple Branch Office Perspective Details

Name	Description
Branch Office Name	Name of the branch office, derived from the name of the view holding the branch office service.
Availability	Availability icon indicates the state of the connectivity service, as provided by all of the Branch Office connectivity links, over the reporting period.
Utilization	Utilization icon indicates threshold crossings, high or low, on any of the Branch Office connectivity links, over the reporting period.
Faults	Faults icon indicates threshold crossings, e.g. level of packet corruption and transmit errors, on any of the Branch Office connectivity links, over the reporting period.
Discards	Discards icon indicates threshold crossings, e.g. a high level of port data loss within routers, on any of the Branch Office Connectivity links, over the reporting period.

Table 181 Multiple Branch Office Perspective Details

Name	Description
Latency	Latency icon indicates the state of threshold crossings for the ICMP echo (ping) round trip latency as measured between the Entuity server and the devices used to implement the Branch Office connectivity links over the reporting period.
<i>Device Reachability</i>	Reachability icon indicates overall device reachability, over the reporting period.
SLA Quality	IP SLA icon indicates the combined state of all of the Cisco IP SLA operations over the reporting period.

Table 181 Multiple Branch Office Perspective Details

6 CIO Perspective Reports

This set of reports provides access to the data available through the CIO Perspective suite.



CIO Perspective suite requires a specific view configuration for the perspective and report to run correctly. (See the *Entuity User and System Administrator Guide*.)

Running CIO Perspective Reports

You can run these reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **CIO Perspective**. Entuity displays the list of available reports.



Figure 65 CIO Perspective Reports

CIO SLA Summary Report

CIO SLA Summary



Printed on: 29 May 2012 10:14:14 BST
 Description: Summary of SLA conformance
 View: CIO London Office
 Over the period 00:00 on Thu May 24 2012 - 00:00 on Tue May 29 2012

Network	Uptime	Downtime	Availability %	SLA goal %
Global Wireless	5d 0h 0m 0s	0s	100.000	98.00
Data Center Core	3d 23h 23m 33s	1d 0h 36m 26s	79.494	98.00
VM Platforms	5d 0h 0m 0s	0s	100.000	98.00

Figure 66 CIO SLA Summary Report

CIO SLA Summary Report Overview

This report allows you to monitor the SLA compliance of key components within a CIO Perspective. It is available from the CIO Perspective section of the report center, and also as a drilldown through the CIO Perspective.



CIO Perspective suite requires a specific view configuration for the perspective and report to run correctly. (See the *Entuity User and System Administrator Guide*.)

CIO SLA Summary Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multiple Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select the view with a CIO service to run the report against.
<i>Report period</i>	Period over which the report applies, by default twenty-four hours. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 182 CIO SLA Summary Report Header

CIO SLA Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. CIO SLA Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 183 CIO SLA Summary Report Header

CIO SLA Summary Report Details

The details vary according to the configuration of your CIO Perspective.

Name	Description
Name	Name of this column is taken from the service immediately below the CIO Service, for example Network. Each row within this column is a technology, for example within Network.
<i>Uptime</i>	Length of time the service was available during the reporting period.
<i>Downtime</i>	Length of time the service was unavailable during the reporting period.
<i>Availability %</i>	Service availability as a percentage of the time the service was available during the reporting period. When availability is below <i>SLA Goal %</i> its values is displayed in red.
SLA Goal %	The level of required service delivery, expressed as a percentage of service availability.

Table 184 CIO SLA Summary

CIO Perspective Report

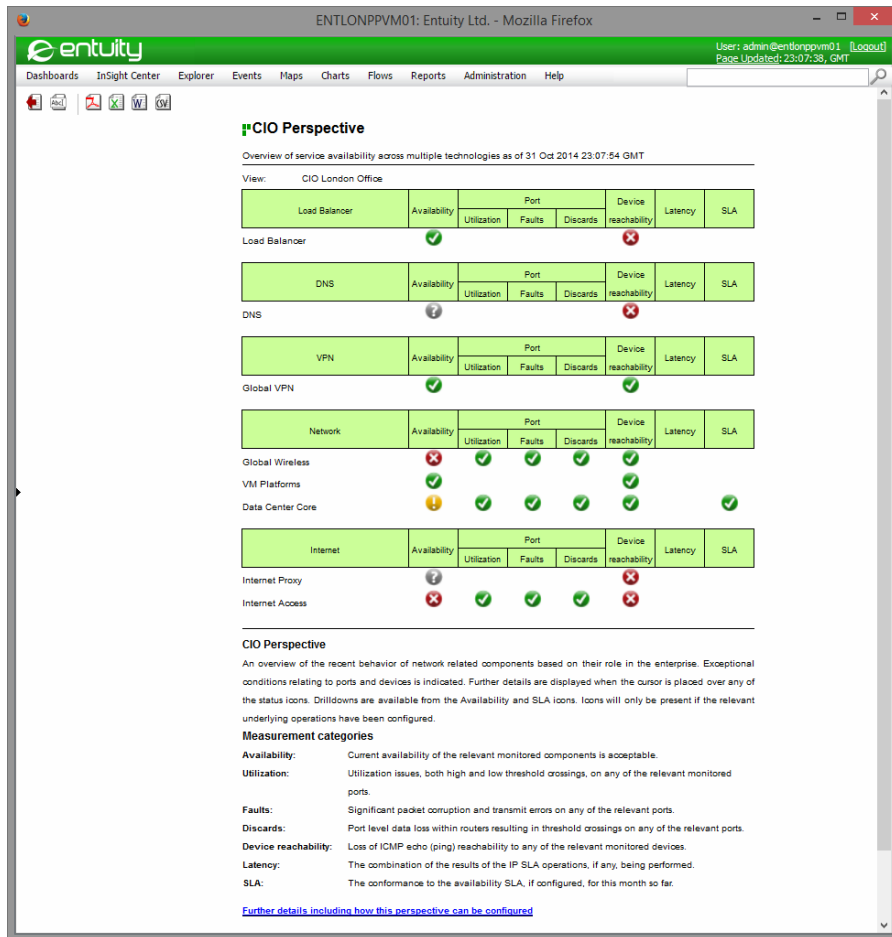


Figure 67 CIO Perspective Report

CIO Perspective Report Overview

The CIO Perspective allows a high level overview of the network health. It identifies different categories of service. It allows an executive to rapidly determine whether there have been any recent issues that have impacted any of the business services that the company relies on. Where problems are identified it is easy to identify which parts of the company have been impacted and when that impact would have been felt. Importantly this perspective distinguishes between service impacting issues and those that can be safely accommodated through the redundant nature of the network.



CIO Perspective suite requires a specific view configuration for the perspective and report to run correctly. (See the *Entuity User and System Administrator Guide*.)

The perspective has a multi-level drill down approach, whereby the top level presentation indicates whether there were any relevant issues and which business service they were related to. Each of the services and related metrics allow drilldowns that would present more details about the issues specific to the service and part of the network that were selected. This second level drilldown displays when the issues were experienced using a color ribbon presentation. A third level drilldown lists all the components being monitored for the specific service along with an indication of which one(s) was/were responsible for the issue(s).

CIO Perspective Report Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multiple Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select the view with a CIO service to run the report against. Entuity only displays those services which include a CIO service.
<i>Report period</i>	Period over which the report applies, by default twenty-four hours. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 185 CIO Perspective Report Header

CIO Perspective Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. CIO Perspective.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Printed On</i>	Date and time at which the report was run.

Table 186 CIO Perspective Report Header

CIO Perspective Report Details

The details vary according to the configuration of your CIO Perspective.

This report provides an overview of branch performance, using icons to indicate metric performance over the last sample and over the reporting period. Each icon is also a hyperlink that opens a drilldown report.

Name	Description
Availability	Availability icons indicate the current state of the connectivity service, as provided by all of the components within the service connectivity links.
<i>Utilization</i>	Utilization icons indicate threshold crossings, high or low, on any of the ports during the last sample.
Faults	Faults icons indicate threshold crossings, e.g. level of packet corruption and transmit errors, on any of the ports, during the last sample.
<i>Discards</i>	Discards icons indicate threshold crossings, e.g. a high level of port data loss within routers, on any of the ports, during the last sample.
Latency	Latency icons indicate the state of threshold crossings for the ICMP echo (ping) round trip latency as measured between the Entuity server and the devices used to implement the service connectivity links during the last sample.
<i>Device Reachability</i>	Reachability icons indicate overall device reachability, during the last sample.
SLA Quality	For each SLA an icon indicates the current state of SLA compliance to the SLA goal set against the service.

Table 187 CIO Perspective

7 Configuration Reports

This set of reports provides access to the data available through Entuity Configuration Monitor.

Running Configuration Reports

You can run these reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Configuration Reports**. Entuity displays the list of available reports.

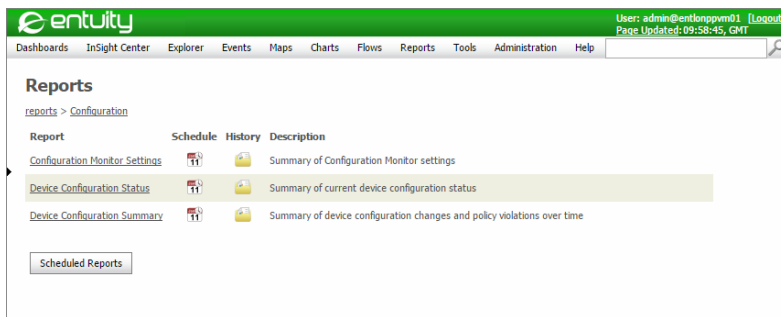


Figure 68 Configuration Reports

Configuration Monitor Settings Report

Entuity Report



Configuration Monitor Settings

Description: Summary of Configuration Monitor settings

View: My Network (admin)

Printed on: 6 Aug 2016 14:26:38 BST

Device name	Model	Location	Policy checking	Scheduled upload	Maximum archives retained
192.168.97.110		Jan-GNS-BGP	cisco-generic-policies.cfg	Off	4
cfgmon Dell				Off	4
cfgmon HP		Server-Room - Server Rack	hp-generic-policies.cfg	Off	4
cfgmon Huawei		Server Room - Server Rack		Off	4
cfgmon Juniper		Jeff's desk		Off	4
cfgmon Matt's HP			hp-generic-policies.cfg	Off	4

Figure 69 Configuration Monitor Settings Report

Configuration Monitor Settings Overview

The Configuration Monitor Settings report summarizes the current configuration monitor settings of devices.

Configuration Monitor Settings Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a sort option</i>	Select the column on which you want to sort the results.

Table 188 Configuration Monitor Settings Options

Configuration Monitor Settings Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Configuration Monitor Settings.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.

Table 189 Configuration Monitor Settings Header

Name	Description
<i>View</i>	Entuity view against which the report was run.

Table 189 Configuration Monitor Settings Header

Configuration Monitor Settings

Name	Description
<i>Device Name</i>	Device name or IP address Entuity uses to manage the device.
<i>Model</i>	Device model as identified by Entuity.
<i>Location</i>	Description of device location.
<i>Policy Checking</i>	Indicates whether policy checking of retrieved configuration for the device is enabled or disabled, and the name of the policy file.
<i>Sched Upload</i>	Indicates whether scheduled configuration retrieval for the device is enabled or disabled.
<i>Maximum Archives Retained</i>	Number of archives retrieved for the device, by default 4.

Table 190 Configuration Summary Details

Device Configuration Status Report

Entuity Report Device Configuration Status



Description: Summary of current device configuration status
View: Regional
Printed on: 27 Jun 2011 11:46:52 BST
Sorted by: Device name

Device name	Model	Location	Last attempted configuration retrieval			
			Time	Outcome	Config changed	Policy compliance
172.16.47.22	SRX210-H	Jeff's desk	27/06/11 11:21	Succeeded	Yes	Yes
bottom3550	WS-C3550-24-EMI	Entuity Test Room	27/06/11 11:03	Succeeded	Yes	No
ionsw04	J4812A ProCurve Switch	Hot House	27/06/11 11:44	Succeeded	Yes	No

Figure 70 Device Configuration Status Report

Device Configuration Status Overview

The Device Configuration Status report details the last attempt at configuration retrieval.

Device Configuration Status Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a sort option</i>	Select the column on which you want to sort the results.

Table 191 Device Configuration Status Options

Device Configuration Status Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Configuration Status.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 192 Device Configuration Status Header

Name	Description
Sorted by	Column on which the results are sorted.

Table 192 Device Configuration Status Header

Device Configuration Status

Name	Description
<i>Device Name</i>	Device name or IP address Entuity uses to manage the device.
<i>Model</i>	Device model as identified by Entuity.
<i>Location</i>	Description of device location.
Last Attempted Configuration Retrieval	
<i>Time</i>	The time of the last policy retrieval.
<i>Outcome</i>	Indicates whether the last configuration retrieval for the device was successful.
<i>Config Changed</i>	Indicates whether the configuration changed between the last and previous poll.
<i>Policy Compliance</i>	Indicates whether the device configuration was or was not compliant with the policy statement mandate.

Table 193 Device Configuration Status Details

Device Configuration Summary Report

Entuity Report

Device Configuration Summary



Description: Summary of device configuration changes and policy violations over time

View: Regional

Over the period 00:00 on Fri May 27 2011 - 00:00 on Mon Jun 27 2011

Printed on: 27 Jun 2011 11:47:37 BST

Sorted by: Days with policy violations

Device name	Model	Location	Days with policy violations	Uploads with changes	Time of last config upload	Outcome of last upload
172.16.47.22	SRX210-H	Jeff's desk	0	0	27/06/11 11:21	Succeeded
bottom3550	WS-C3550-24-EMI	Entuity Test Room	0	0	27/06/11 11:03	Succeeded
ionsw04	J4812A ProCurve Switch	Hot House	0	0	27/06/11 11:44	Succeeded

Figure 71 Device Configuration Summary Report

Device Configuration Summary Overview

The Device Configuration Summary report summarizes the device configuration of the reporting period.

Device Configuration Summary Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a sort option</i>	Select the column on which you want to sort the results.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. Range, you can enter start and end dates and times.

Table 194 Device Configuration Summary Options

Device Configuration Summary Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.

Table 195 Device Configuration Summary Header

Name	Description
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Sorted by</i>	Column on which the results are sorted.

Table 195 Device Configuration Summary Header

Device Configuration Summary

Name	Description
<i>Device Name</i>	Device name or IP address Entuity uses to manage the device.
<i>Model</i>	Device model as identified by Entuity.
<i>Location</i>	Description of device location.
<i>Days with policy violations</i>	Number of days within the report period policy violations were reported on the device.
<i>Uploads with changes</i>	Number of uploads within the report period changes in configuration were reported on the device.
<i>Time of last config upload</i>	Time of the last configuration upload.
<i>Outcome of last upload</i>	Indicates whether the last configuration retrieval for the device was successful.

Table 196 Device Configuration Summary Details

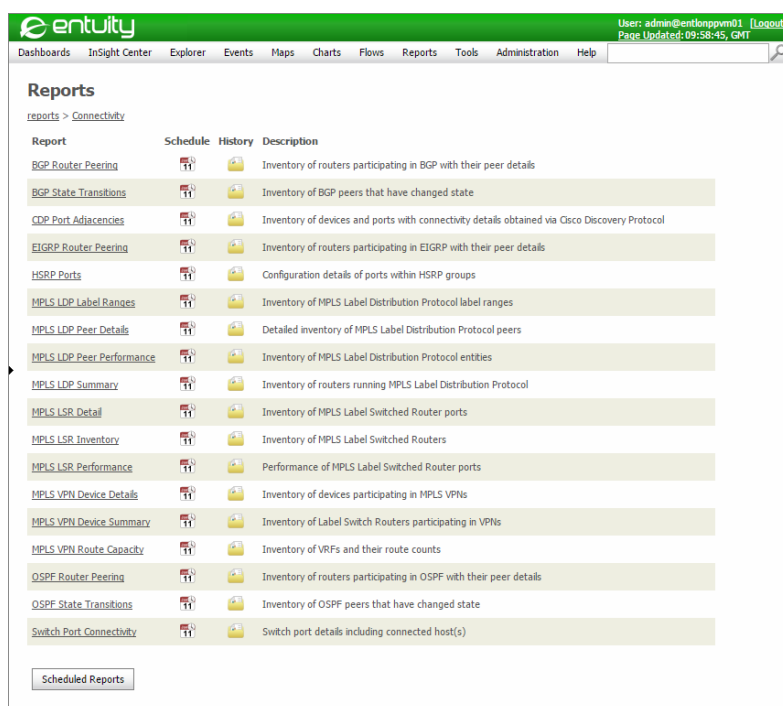
8 Connectivity and Routing Reports

This set of reports allow you to monitor the routing, topology and connectivity characteristics of your network.

Running Connectivity and Routing Reports

You can run Connectivity and Routing reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Connectivity and Routing**. Entuity displays the list of available reports.



The screenshot shows the Entuity web interface with the 'Reports' page selected. The page title is 'Reports' and the breadcrumb is 'reports > Connectivity'. The page contains a table of reports with columns for 'Report', 'Schedule', 'History', and 'Description'. The reports listed are:

Report	Schedule	History	Description
BGP Router Peering			Inventory of routers participating in BGP with their peer details
BGP State Transitions			Inventory of BGP peers that have changed state
CDP Port Adjacencies			Inventory of devices and ports with connectivity details obtained via Cisco Discovery Protocol
EIGRP Router Peering			Inventory of routers participating in EIGRP with their peer details
HSRP Ports			Configuration details of ports within HSRP groups
MPLS LDP Label Ranges			Inventory of MPLS Label Distribution Protocol label ranges
MPLS LDP Peer Details			Detailed inventory of MPLS Label Distribution Protocol peers
MPLS LDP Peer Performance			Inventory of MPLS Label Distribution Protocol entities
MPLS LDP Summary			Inventory of routers running MPLS Label Distribution Protocol
MPLS LSR Detail			Inventory of MPLS Label Switched Router ports
MPLS LSR Inventory			Inventory of MPLS Label Switched Routers
MPLS LSR Performance			Performance of MPLS Label Switched Router ports
MPLS VPN Device Details			Inventory of devices participating in MPLS VPNs
MPLS VPN Device Summary			Inventory of Label Switch Routers participating in VPNs
MPLS VPN Route Capacity			Inventory of VRFs and their route counts
OSPF Router Peering			Inventory of routers participating in OSPF with their peer details
OSPF State Transitions			Inventory of OSPF peers that have changed state
Switch Port Connectivity			Switch port details including connected host(s)

At the bottom of the page, there is a button labeled 'Scheduled Reports'.

Figure 72 Connectivity and Routing Reports

BGP Router Peering Report

Entuity Report

BGP Router Peering



Printed on: 17 Nov 2012 16:27:28 EST

Description: Inventory of routers participating in BGP with their peer details

View: Regional

Over the period 16:00 on Tue Nov 16 2012 - 16:00 on Wed Nov 17 2012

Router name	Model	Location	Local AS	BGP identifier	BGP peer count
10.66.23.61	WS-C6509-NEB-A	"Simulator"	65217	192.168.255.226	2
bottom3550	WS-C3550-24-EMI	Entuity Test Room	64132	10.44.1.12	3
c2821	2821		109	192.168.159.123	2
e2821	2821	Cisco corner in the test room	109	10.44.1.59	2
new2610	2610	Entuity Test Room	64000	204.143.4.36	5
r2610	2610	Entuity Test Room	64000	204.4.143.35	5
bottom3550	WS-C3550-24-EMI	Entuity Test Room	64132	10.44.1.12	3
c2821.entuity.local	2821		109	192.168.159.123	2
c3560.entuity.local	WS-C3560-24TS-E	Entuity Test Room	110	10.44.1.39	1
e2821.entuity.local	2821	Cisco corner in the test room	109	10.44.1.59	2
foundrynetiron4000.vendor.entuity.la	NI-XMR-1Gx20-SFP 20-port 1GbE/100FX Module		2495	164.113.199.103	9
new2610	2610	Entuity Test Room	64000	204.143.4.36	5
r2610	2610	Entuity Test Room	64000	204.4.143.35	5

BGP peer details for device 10.66.23.61

Local IP address	Remote IP address	Remote AS	Peer type	BGP peer state	BGP admin status	Established time	State transition count	Peered router
192.168.255.226	192.168.255.246	65217	Internal	Established	Start	Wed Sep 19 08:05:26 EDT	23118	
192.168.255.226	192.168.255.248	65217	Internal	Established	Start	Thu Sep 20 02:21:01 EDT	22664	

BGP peer details for device bottom3550

Local IP address	Remote IP address	Remote AS	Peer type	BGP peer state	BGP admin status	Established time	State transition count	Peered router
10.44.1.12	10.44.1.39	110	External	Established	Start	Mon Nov 05 06:47:59 EST 2012	0	
10.44.1.12	10.44.1.58	109	External	Established	Start	Mon Nov 05 06:26:38 EST 2012	0	c2821
10.44.1.12	10.44.1.59	109	External	Established	Start	Wed Nov 14 10:57:13 EST 2012	0	e2821

BGP peer details for device c2821

Local IP address	Remote IP address	Remote AS	Peer type	BGP peer state	BGP admin status	Established time	State transition count	Peered router
10.44.1.58	10.44.1.12	64132	External	Established	Start	Mon Nov 05 06:26:19 EST 2012	0	bottom3550
10.44.1.58	10.44.1.59	109	Internal	Established	Start	Wed Nov 14 10:57:06 EST 2012	0	e2821

BGP peer details for device e2821

Local IP address	Remote IP address	Remote AS	Peer type	BGP peer state	BGP admin status	Established time	State transition count	Peered router
10.44.1.59	10.44.1.12	64132	External	Established	Start	Wed Nov 14 10:56:59 EST 2012	0	bottom3550
10.44.1.59	10.44.1.58	109	Internal	Established	Start	Wed Nov 14 10:56:59 EST 2012	0	c2821

BGP peer details for device new2610

Local IP address	Remote IP address	Remote AS	Peer type	BGP peer state	BGP admin status	Established time	State transition count	Peered router
Unknown	10.44.1.12	64132	External	Active	Stop	Fri Sep 12 12:04:40 EDT	0	bottom3550
Unknown	10.44.1.42	64132	External	Active	Stop	Fri Sep 12 12:04:40 EDT	0	top3550

Figure 73 BGP Router Peering Report

BGP Router Peering Report Overview

This report provides an inventory of routers participating in BGP with their peer details.

BGP Router Peering Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 197 BGP Router Peering Report Options

BGP Router Peering Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. BGP Router Peering.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 198 BGP Router Peering Report Header

BGP Router Peering Report Details

Name	Description
<i>Router Name</i>	Device name.
<i>Model</i>	Device model.
<i>Location</i>	Location of the device.
<i>Local AS</i>	Local AS of the device.

Table 199 BGP Router Peering Report

Name	Description
<i>BGP Identifier</i>	Each router running BGP has a BGP identifier. This identifier is included in the BGP identifier field of open messages, which are sent between two BGP peers when establishing a BGP session
<i>BGP peer count</i>	Number of BGP peers.

Table 199 BGP Router Peering Report

This table identifies the BGP peers of the device.

Name	Description
<i>Local IP Address</i>	Local IP address of the device.
<i>Remote IP Address</i>	The remote IP address of this entry's BGP peer.
<i>Remote AS</i>	The remote autonomous system number.
<i>Peer Type</i>	When set to External, peering is between routers in different AS. Internal, peering is between routers in the same AS.
<i>BGP Peer State</i>	When set to Established, allows passing of information, otherwise when set to Idle, Connect, Active, Open Sent and Open Confirm the peer is not established.
<i>BGP Admin Status</i>	Administrator set value when set to Start should be operating and when Stop should be down.
<i>Established Time</i>	Transitions into and out of the Established state cause this timer to be reset.
<i>State Transition Count</i>	Established Transitions Count, number of changes in peer status during the polling period. A high value may indicate flapping and require further investigation.
<i>Peered router</i>	Identifier of the peered device.

Table 200 BGP Peer Device Details

BGP Peering State Transitions Report

Entuity Report

BGP Peering State Transitions



Printed on: 17 Nov 2009 16:28:09 EST

Description: Inventory of BGP peers that have changed state

View: Regional

Over the period 16:00 on Mon Nov 16 2009 - 16:00 on Tue Nov 17 2009

Local IP address	Remote Ip address	Remote AS	Peer type	BGP peer state	BGP admin status	State transition count	Local router	Peered router
192.168.255.226	192.168.255.246	65217	Internal	Established	Start	23118	10.66.23.61	
192.168.255.226	192.168.255.248	65217	Internal	Established	Start	22664	10.66.23.61	
164.113.199.103	164.113.199.100	2495	Internal	Connect	Start	9485	foundrynetiron4000.vend or.entuity.lab	
164.113.212.9	164.113.212.10	2701	External	Established	Start	9443	foundrynetiron4000.vend or.entuity.lab	
164.113.199.103	164.113.199.107	2495	Internal	Connect	Start	9326	foundrynetiron4000.vend or.entuity.lab	
164.113.199.103	164.113.199.105	2495	Internal	Connect	Start	9288	foundrynetiron4000.vend or.entuity.lab	
164.113.199.103	164.113.199.102	2495	Internal	Connect	Start	9198	foundrynetiron4000.vend or.entuity.lab	
164.113.199.103	164.113.199.3	2495	Internal	Established	Start	8993	foundrynetiron4000.vend or.entuity.lab	
164.113.199.103	164.113.199.104	2495	Internal	Connect	Start	8931	foundrynetiron4000.vend or.entuity.lab	
Unknown	164.113.199.101	2495	Internal	Active	Start	8784	foundrynetiron4000.vend or.entuity.lab	
164.113.212.5	164.113.212.6	2701	External	Established	Start	8530	foundrynetiron4000.vend or.entuity.lab	

Figure 74 BGP Peering State Transitions Report

BGP Peering State Transitions Report Overview

This report provides an inventory of BGP peers that have changed states within the reporting period.

Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 201 Report Options

BGP Peering State Transitions Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. BGP Peering State Transitions.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 202 BGP Peering State Transitions Report Header

BGP Peering State Transitions Report Details

This table identifies the BGP peers of the device.

Name	Description
<i>Local IP Address</i>	Local IP address of the device.
<i>Remote IP Address</i>	The remote IP address of this entry's BGP peer.
<i>Remote AS</i>	The remote autonomous system number.
<i>Peer Type</i>	When set to External, peering is between routers in different AS. Internal, peering is between routers in the same AS.
<i>BGP Peer State</i>	When set to Established, allows passing of information, otherwise when set to Idle, Connect, Active, Open Sent and Open Confirm the peer is not established.
<i>BGP Admin Status</i>	Administrator set value when set to Start should be operating and when Stop should be down.
State Transition Count	Established Transitions Count, number of changes in peer status during the polling period. A high value may indicate flapping and require further investigation.
Local router	Identifier of the local device.
Peered router	Identifier of the peered device.

Table 203 BGP Peer Device Details

Port CDP Adjacencies Report

Entuity Report

Port CDP Adjacencies



Printed on: 8 Oct 2012 20:16:12 BST

Description: Inventory of devices and ports with connectivity details obtained via Cisco Discovery Protocol

View: Regional

Device name	Model	Location	Connected ports
10.44.1.9	C2950XL		1
bottom2960	WS-C2960-24TT-L	Entuity Test Room	6
bottom3550	WS-C3550-24-EMI	Entuity Test Room	5
c2821	2821		4
c3560	WS-C3560-24TS-E	Entuity Test Room	2
e2821	2821	Cisco corner in the test room	6
ioalana	7513	"Europe,ColchesterGDC,7513_2"	21
lonsw01	WS-C5505		3
lonsw02	WS-C5505	Development cabinet	2
lonsw03	WS-C5505		5
new2610	2610	Entuity Test Room	1
r2501	2501	Entuity Test Room	2
r2610	2610	Entuity Test Room	1
sunrise	WSX5302	4th_Floor_9a_Devonshire_Square	1
top2960	WS-C2960-24TT-L	The real top of the pile	4

CDP connectivity details for device 10.44.1.9

Port ID	Alias	MIB-2 interface description	Admin/Oper status	Port role	Remote device:port
[Fa0/1]	TRUNK	FastEthernet0/1	up / up	Trunk	10.44.1.5:2/3

CDP connectivity details for device bottom2960

Port ID	Alias	MIB-2 interface description	Admin/Oper status	Port role	Remote device:port
[Fa0/1]		FastEthernet0/1	up / up	Trunk	10.44.1.7:2/8
[Fa0/9]		FastEthernet0/9	up / up	Trunk	10.44.1.12:FastEthernet0/2
[Fa0/15]		FastEthernet0/15	up / up	Uplink	10.44.1.35:Ethernet0/0
[Fa0/17]		FastEthernet0/17	up / up	Uplink	10.44.1.36:Ethernet0/0
[Gi0/1]		GigabitEthernet0/1	up / up	Uplink	10.44.1.58:GigabitEthernet0/0
[Gi0/2]		GigabitEthernet0/2	up / up	Uplink	10.44.1.59:GigabitEthernet0/0

CDP connectivity details for device bottom3550

Port ID	Alias	MIB-2 interface description	Admin/Oper status	Port role	Remote device:port
[Fa0/1]		FastEthernet0/1	up / up	Trunk	10.44.1.40:FastEthernet0/7
[Fa0/2]		FastEthernet0/2	up / up	Trunk	10.44.1.41:FastEthernet0/9
[Fa0/11]		FastEthernet0/11	up / up	None	192.168.136.1:FastEthernet0/11
[Gi0/1]		GigabitEthernet0/1	up / up	Trunk	10.44.1.39:GigabitEthernet0/2
[Gi0/2]		GigabitEthernet0/2	up / up	None	10.44.1.42:GigabitEthernet0/2

CDP connectivity details for device c2821

Port ID	Alias	MIB-2 interface description	Admin/Oper status	Port role	Remote device:port
[Gi0/0]	Connection to 10.44 lan"ETH-LAN"	GigabitEthernet0/0	up / up	Router	10.44.1.41:GigabitEthernet0/1
[Gi0/1]		GigabitEthernet0/1	up / up	Router	10.44.1.59:GigabitEthernet0/1

Figure 75 Port CDP Adjacencies Report

Port CDP Adjacencies Report Overview

This report provides an inventory of devices and ports with connectivity details obtained via Cisco Discovery Protocol.

Port CDP Adjacencies Report Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 204 Port CDP Adjacencies Report Options

Port CDP Adjacencies Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port CDP Adjacencies.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 205 Port CDP Adjacencies Report Header

Port CDP Adjacencies Report Details

Name	Description
<i>Device name</i>	Identifier of the device, e.g. host name or IP address.
<i>Model</i>	Model of the device.
<i>Location</i>	A text description of the physical location of the device that is contained on the device, e.g. Development Cabinet.
<i>Connected ports</i>	Number of ports connected to the device.

Table 206 Port CDP Adjacencies

Name	Description
<i>Port id</i>	Port identifier
<i>Alias</i>	Port alias.
<i>MIB 2 Interface Description</i>	Port description taken from SNMP-MIB2.

Table 207 CDP Connectivity

Name	Description
<i>Admin/Oper port status</i>	Current operational status, e.g. up, down, and the port status as set by the system administrator.
Port role	The port type, e.g. router, uplink.
Remote device:port	Remote device and port to which the port is connected.

Table 207 CDP Connectivity

EIGRP Router Peering Report

Entity Report

EIGRP Router Peering



Printed on: 8 Oct 2009 20:17:36 BST

Description: Inventory of routers participating in EIGRP with their peer details

View: Regional

Over the period 20:00 on Wed Oct 07 2009 - 20:00 on Thu Oct 08 2009

Router name	Model	Location	EIGRP peer count
c2821	2821		6
e2821	2821	Cisco corner in the test room	10

EIGRP peer details for device c2821

Local IP address	Remote IP address	Peered router
192.168.248.129	192.168.248.130	
192.168.249.17	192.168.249.18	e2821
192.168.249.1	192.168.249.2	e2821
192.168.249.33	192.168.249.34	e2821
192.168.249.49	192.168.249.50	e2821
192.168.249.65	192.168.249.66	e2821

EIGRP peer details for device e2821

Local IP address	Remote IP address	Peered router
10.44.1.59	10.44.1.12	bottom3550
10.44.1.59	10.44.1.35	r2610
10.44.1.59	10.44.1.36	new2610
192.168.141.1	192.168.141.2	r2501
192.168.242.124	192.168.242.123	
192.168.249.2	192.168.249.1	c2821
192.168.249.18	192.168.249.17	c2821
192.168.249.34	192.168.249.33	c2821
192.168.249.50	192.168.249.49	c2821
192.168.249.66	192.168.249.65	c2821

Figure 76 EIGRP Router Peering Report

EIGRP Router Peering Report Overview

This report provides an inventory of routers participating in EIGRP with their peer details.

EIGRP Router Peering Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 208 EIGRP Router Peering Report Options

Name	Description
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 208 EIGRP Router Peering Report Options

EIGRP Router Peering Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. EIGRP Router Peering.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.

Table 209 EIGRP Router Peering Report Header

EIGRP Router Peering Report Details

Name	Description
<i>Router Name</i>	Device name.
<i>Model</i>	Device model.
<i>Location</i>	Location of the device.
<i>EIGRP peer count</i>	Number of EIGRP peers.

Table 210 EIGRP Router Peering Summary

Name	Description
<i>Local IP Address</i>	Local IP address of the router.
<i>Remote IP Address</i>	Remote IP address of the router.
<i>Peered router</i>	Identifier of the peered device.

Table 211 EIGRP Router Peers

HSRP Ports Report

Entuity Report

HSRP Ports Report



Printed on: 30 Oct 2013 13:19:05 GMT

Description: Configuration details of ports within HSRP groups

View: My Network

Device name	Interface	Group number	Priority	Active router	Standby router	Virtual IP	Virtual MAC
bottom3550	FastEthernet0/11	101	200	192.168.136.1	192.168.136.2	192.168.136.3	00:00:0c:07:ac:65
top3550	FastEthernet0/11	101	250	192.168.136.4	192.168.136.5	192.168.136.3	00:00:0c:07:ac:65

Figure 77 HSRP Ports Report

HSRP Ports Report Overview

This report provides configuration details of ports within HSRP groups.

Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 212 HSRP Ports Report Options

HSRP Ports Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. HSRP Port.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 213 HSRP Ports Report Header

HSRP Ports Report Details

Name	Description
<i>Device Name</i>	Identifier of the device, e.g. host name or IP address.
<i>Interface</i>	Interface description.
<i>Group Number</i>	Identifies the HSRP standby group. For Token Ring, values between 0 and 2 inclusive are valid. For other media values between 0 and 255 inclusive are valid.
<i>Priority</i>	The priority level of the router. When comparing priorities of two different routers, the router with the numerically higher priority wins, becoming the active router. When both routers have the same priority level the router with the higher IP address wins.
<i>Virtual IP Address</i>	The virtual IP address of the group. When a router's virtual IP address is not configured, it can be derived through an authenticated HSRP hello message.
<i>Active Router</i>	The IP address of the current active router for this HSRP standby group. If the value returned is 0.0.0.0 this indicates HSRP configuration is incomplete or connectivity with devices in its HSRP group is broken
<i>Standby Router</i>	The IP address of the current standby router for this HSRP standby group. If the value returned is 0.0.0.0 this indicates HSRP configuration is incomplete or connectivity with devices in its HSRP group is broken.
<i>Virtual MAC Address</i>	For Ethernet and FDDI, the automatically generated MAC address when HSRP is configured. The standard virtual MAC address used is: 0000.0C07.ACxy, where xy is the group number in hexadecimal. The functional address is used for Token Ring.

Table 214 HSRP Ports Report

MPLS LDP Label Ranges Report

Entuity Report

LDP Label Ranges



Printed on: 8 Oct 2009 20:20:45 BST

Description: Inventory of MPLS Label Distribution Protocol label ranges

View: Regional

Devices: 2

Device name	LDP label ranges	
c2821	1	
e2821	1	
MPLS LDP label range details for device c2821		
Port	Minimum label	Maximum label
Serial0/2/0.212	16	100000
MPLS LDP label range details for device e2821		
Port	Minimum label	Maximum label
Serial0/1/1.402	16	100000

Figure 78 MPLS LDP Label Ranges Report

MPLS LDP Label Ranges Report Overview

This report provides an inventory of MPLS Label Distribution Protocol label ranges.

MPLS LDP Label Ranges Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 215 MPLS LDP Label Ranges Report Options

MPLD LDP Label Ranges Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. LDP Label Ranges.
<i>Printed on</i>	Date and time the report was generated.

Table 216 MPLS LDP Label Ranges Report Header

Name	Description
<i>Description</i>	Description of the report.
<i>Devices</i>	Number of devices included to the report.
<i>View</i>	Entuity view against which the report was run.

Table 216 MPLS LDP Label Ranges Report Header

LDP Label Ranges Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>LDP label ranges</i>	Number of label ranges associated with the device.

Table 217 LDP Label Ranges Summary Report

Name	Description
<i>Port</i>	Name of the port.
<i>Minimum label</i>	Minimum boundary of the label range.
<i>Maximum label</i>	Maximum boundary of the label range.

Table 218 LDP Label Ranges Peers Report

MPLS LDP Peer Details Report

Entuity Report

LDP Peer Details



Printed on: 8 Oct 2009 20:21:51 BST

Description: Detailed inventory of MPLS Label Distribution Protocol peers

View: Regional

Devices: There are no qualifying devices in this view

Device name	LSR ID	Loop detection capability	Label retention mode	LDP session traps enabled	LDP Peers
MPLS LDP peer details for device null					
Advertised IP	Label distribution method	Path vector hop limit	LDP version	TCP port	UDP Port
null	null	null	null	null	null

Figure 79 LDP Peer Details Report

MPLS LDP Peer Details Report Overview

This report provides a detailed inventory of MPLS Label Distribution Protocol peers.

MPLS LDP Peer Details Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 219 MPLS LDP Peer Details Report Options

MPLS LDP Peer Details Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. LDP Peer Details.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Devices</i>	Number of devices included to the report.
<i>View</i>	Entuity view against which the report was run.

Table 220 LDP Peer Details Report Header

LDP Peer Details Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>LSR ID</i>	Label Switching Router (LSR) identifier is the first 4 bytes of the Label Distribution Protocol (LDP) identifier.
<i>Loop detection capability</i>	indicates the LSR loop detection capability, and not necessarily its current state. Loop detection is determined during session initialization, individual sessions may not run with loop detection. Loop detection can be: <ul style="list-style-type: none"> ■ None, loop detection is not supported on this LSR. ■ Other, loop detection is supported but by a method other than those explicitly defined in the MIB. ■ Hop Count, loop detection is supported only through hop count. ■ Path Vector, loop detection is supported only through path vector. ■ Hop Count And Path Vector, loop detection is supported by both hop count and path vector.
<i>Label retention mode</i>	Label Retention Mode, when set to: <ul style="list-style-type: none"> ■ Conservative, the advertised label mappings are retained only if they will be used to forward packets, i.e. if label came from a valid next hop. ■ Liberal, all advertised label mappings are retained whether they are from a valid next hop or not.
<i>LDP session traps enabled</i>	LDP Session Traps Enabled, when set to: <ul style="list-style-type: none"> ■ Enabled, the mplsLdpSessionUp and mplsLdpSessionDown can be generated. ■ Disabled, the mplsLdpSessionUp and mplsLdpSessionDown can not be generated. The default is Disabled.
<i>LDP Peers</i>	Number of LDP peers.

Table 221 LDP Peer Details Report

Name	Description
<i>Advertised IP</i>	IP address advertised to its LDP peers.
<i>Label distribution method</i>	Label Distribution Method, when the LSR is using: <ul style="list-style-type: none"> ■ Downstream Unsolicited distribution it advertises FEC-label bindings to its peers when it is ready to forward packets in the FEC by means of MPLS. ■ Downstream on Demand distribution provides FEC-label bindings to a peer in response to specific requests from the peer for a label for the FEC.

Table 222 LDP Peer Details Report

Name	Description
<i>Path vector loop limit</i>	Path Vector Hop Limit, when set to: <ul style="list-style-type: none">■ 0, loop detection for path vectors is disabled.■ a value greater than zero, loop detection for path vectors is enabled, and the Path Vector Limit is this value. For the Path Vector Hop Limit to have effect the device's Loop Detection Capability must be set to either Hop Count And Path Vector or Path Vector.
<i>LDP version</i>	Version number of the LDP protocol. When set to 0, this indicates that the version of the protocol is unknown.
<i>TCP port</i>	LDP TCP port 646 used for establishing transport connection.
<i>UDP port</i>	The UDP port, by default 646, used with the discovery message.

Table 222 LDP Peer Details Report

MPLS LDP Peer Performance Report

Entuity Report

LDP Peer Performance



Printed on: 8 Oct 2009 20:23:48 BST

Description: Inventory of MPLS Label Distribution Protocol entities

View: Regional

Entity count: 2

Over the period 20:00 on Wed Oct 07 2009 - 20:00 on Thu Oct 08 2009

No prime time is set for this report

Device name	Advertised IP	Admin status	Oper status	Shutdowns received	Rejected sessions	Error delta	Shutdowns sent
c2821	192.168.248.162	Enable	Enable	0	0	0	0
e2821	192.168.246.199	Enable	Enable	0	0	0	0

Figure 80 MPLS LDP Peer Performance Report

MPLS LDP Peer Performance Report Overview

This report provides an inventory of MPLS Label Distribution Protocol entities.

MPLS LDP Peer Performance Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 223 MPLS LDP Peer Performance Report Options

LDP Peer Performance Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.

Table 224 LDP Peer Performance Report Header

Name	Description
<i>Report title</i>	Report title, e.g. LDP Peer Performance.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Entity count</i>	Number of discovered entities.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 224 LDP Peer Performance Report Header

LDP Peer Performance Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>Advertised IP</i>	IP address advertised to its LDP peers.
<i>Admin Status</i>	Admin Status, the administrative status of this LDP Entity. When set to: <ul style="list-style-type: none"> ■ Enable, the entity can create new sessions with its peer. ■ Disable, any existing peer connections are lost. When set to disable the administrator can amend entity values
<i>Oper Status</i>	Oper Status, the operational status of the LDP entity, which can be: <ul style="list-style-type: none"> ■ Unknown, this should only be a transitional state. ■ Enabled. ■ Disabled.
<i>Shutdowns Received</i>	Number of Shutdown Notifications received related to session(s) (past and present) associated with this LDP Entity.
<i>Rejected Sessions</i>	Number of rejected sessions.
<i>Error Delta</i>	The change in the number of errors between the two most recent pollings.
<i>Shutdowns Sent</i>	The number of Shutdown Notifications sent related to session(s) (past and present) associated with this LDP Entity.

Table 225 LDP Peer Performance Report

MPLS LDP Summary Report

Entuity Report

LDP Summary



Printed on: 8 Oct 2009 20:25:07 BST

Description: Inventory of routers running MPLS Label Distribution Protocol

View: Regional

Device name	LSR ID	Loop detection capability	Label retention mode	LDP session traps enabled	LDP Peers
c2821	192.168.246.199	Hop Count and Path Vector	Unknown	Disabled	1
e2821	192.168.248.162	Hop Count and Path Vector	Unknown	Disabled	1

Figure 81 MPLS LDP Summary Report

MPLS LDP Summary Report Overview

This report provides an inventory of routers running MPLS Label Distribution Protocol.

MPLS LDP Summary Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 226 MPLS LDP Summary Report Options

MPLS LDP Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. LDP Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 227 MPLS LDP Summary Report Header

LDP Summary Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>LSR ID</i>	Label Switching Router (LSR) identifier is the first 4 bytes of the Label Distribution Protocol (LDP) identifier.
<i>Loop detection capability</i>	<p>indicates the LSR loop detection capability, and not necessarily its current state. Loop detection is determined during session initialization, individual sessions may not run with loop detection. Loop detection can be:</p> <ul style="list-style-type: none"> ■ None, loop detection is not supported on this LSR. ■ Other, loop detection is supported but by a method other than those explicitly defined in the MIB. ■ Hop Count, loop detection is supported only through hop count. ■ Path Vector, loop detection is supported only through path vector. ■ Hop Count And Path Vector, loop detection is supported by both hop count and path vector.
<i>Label retention mode</i>	<p>Label Retention Mode, when set to:</p> <ul style="list-style-type: none"> ■ Conservative, the advertised label mappings are retained only if they will be used to forward packets, i.e. if label came from a valid next hop. ■ Liberal, all advertised label mappings are retained whether they are from a valid next hop or not.
<i>LDP session traps enabled</i>	<p>LDP Session Traps Enabled, when set to:</p> <ul style="list-style-type: none"> ■ Enabled, the mplsLdpSessionUp and mplsLdpSessionDown can be generated. ■ Disabled, the mplsLdpSessionUp and mplsLdpSessionDown can not be generated. The default is Disabled.
<i>LDP Peers</i>	Number of LDP peers.

Table 228 LDP Peer Details Report

MPLS LSR Detail Report

Entuity Report

LSR Detail

Printed on: 8 Oct 2009 20:26:06 BST

Description: Inventory of MPLS Label Switched Router ports

View: Regional

Ports: 3



Device name	Port description (MIB-2)	Min/Max label (RX)	Min/Max label (TX)	Allocated space	Label space
c2821	Serial0/2/0.212-mpls layer	16 / 100000	16 / 100000	0	Per Platform
e2821	Serial0/1/1.555-mpls layer	16 / 100000	16 / 100000	0	Per Platform
e2821	Serial0/1/1.402-mpls layer	16 / 100000	16 / 100000	0	Per Platform

Figure 82 MPLS LSR Detail Report

MPLS LSR Detail Report Overview

This report provides an inventory of MPLS Label Switched Router ports.

MPLS LSR Detail Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 229 MPLS LSR Detail Report Options

MPLS LSR Detail Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. LSR Detail.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Ports</i>	Number of LSR ports.
<i>View</i>	Entuity view against which the report was run.

Table 230 MPLS LSR Detail Report Header

MPLS LSR Detail Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>MIB 2 Interface Description</i>	Port description taken from SNMP-MIB2.
<i>Min / Max label (RX)</i>	Min label (RX) is the minimum value of an MPLS label that this LSR is willing to receive on this interface. Max label (RX) is the maximum value of an MPLS label that this LSR is willing to receive on this interface.
<i>Min / Max label (TX)</i>	Min label (TX) is the minimum value of an MPLS label that this LSR is willing to send on this interface. Max label (TX) is the maximum value of an MPLS label that this LSR is willing to send on this interface.
<i>Allocated Space</i>	Indicates the total amount of buffer space allocated for this interface. This variable is not applicable when applied to the interface with index 0.
<i>Label Space</i>	Label Space can be set to: <ul style="list-style-type: none"> ■ perInterface(1) bit is set then the value of Min label (RX), Max label (RX), Min label (TX), and Max label (TX) for this entry reflect the label ranges for this interface. ■ perPlatform(0) bit is set, then the value of value of Min label (RX), Max label (RX), Min label (TX), and Max label (TX) for this entry must be identical to the instance of these objects with index 0.

Table 231 MPLS LSR Detail Report

MPLS LSR Inventory Report

Entuity Report

LSR Inventory



Printed on: 8 Oct 2009 20:27:16 BST

Description: Inventory of MPLS Label Switched Routers

View: Regional

Device name	Max label stack depth	LSR in segment trap mode	LSR out segment trap mode	LSR cross connect trap mode	Number of LSR ports
c2821	4	Disabled	Disabled	Disabled	1
e2821	4	Disabled	Disabled	Disabled	2

Figure 83 MPLS LSR Inventory Report

MPLS LSR Inventory Report Overview

This report provides an inventory of MPLS Label Switched Routers.

MPLS LSR Inventory Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 232 MPLS LSR Inventory Report Options

MPLS LSR Inventory Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. LSR Inventory.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.

Table 233 MPLS LSR Inventory Report Header

Name	Description
<i>View</i>	Entuity view against which the report was run.

Table 233 MPLS LSR Inventory Report Header

MPLS LSR Inventory Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>Max Label Stack Depth</i>	Maximum stack depth supported by this LSR.
<i>LSR In Segment Trap Mode</i>	Traps indicating incoming MPLS segments (labels). If administrative and operational status objects are down, the LSR does not forward packets. If these status objects are up, the LSR forwards packets.
<i>LSR out Segment Trap Mode</i>	Traps indicating outbound MPLS segments (labels).
<i>LSR cross-connect Trap Mode</i>	Traps indicating changes to the cross-connect table, e.g. the association between incoming and outgoing segments (labels).
<i>Number of LSR ports</i>	Number of ports.

Table 234 MPLS LSR Inventory Detail

MPLS LSR Performance Report

Entuity Report

LSR Performance



Printed on: 8 Oct 2009 20:28:27 BST

Description: Performance of MPLS Label Switched Router ports

View: Regional

Ports: 3

Device name	Port description (MIB-2)	Mean/Max available bandwidth (Kbits/sec)	Mean/Max available space	RX/TX discard no error packet rate	RX discard lookup failure packet rate	RX discard lookup failure packet rate
c2821	Serial0/2/0.212-mpls layer	0/0	0/0	0/0	0	0
e2821	Serial0/1/1.555-mpls layer	0/0	0/0	0/0	0	0
e2821	Serial0/1/1.402-mpls layer	0/0	0/0	0/0	0	0

Figure 84 MPLS LSR Performance Report

MPLS LSR Performance Report Overview

This report details the performance of MPLS Label Switched Router ports.

MPLS LSR Performance Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 235 MPLS LSR Performance Report Options

MPLS LSR Performance Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. LSR Performance.

Table 236 MPLS LSR Performance Report Header

Name	Description
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Ports</i>	Number of LSR ports.
<i>View</i>	Entuity view against which the report was run. Configurable through Report Options.

Table 236 MPLS LSR Performance Report Header

MPLS LSR Performance Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>Port Description (MIB 2)</i>	Port description taken from SNMP-MIB2.
<i>Mean / Max available bandwidth (KBits/sec)</i>	Usable Bandwidth, this value indicates the total amount of usable bandwidth on this interface and is specified in kilobits per second (Kbps). This variable is not applicable when applied to the interface with index 0.
<i>Mean / Max available space</i>	Available Bandwidth, this value indicates the total amount of available bandwidth available on this interface and is specified in kilobits per second (Kbps). This value is calculated as the difference between the amount of bandwidth currently in use and that specified in <code>mplsInterfaceTotalBandwidth</code> . This variable is not applicable when applied to the interface with index 0.
<i>RX / TX discard no error packet rate</i>	Received Discard No Error Packet Rate is the difference between two contiguous inbound Error Free Discards sampled values, as a per second average. Transmitted Discard No Error Packet Rate is the difference between two contiguous outbound Error Free Discards sampled values, as a per second average. Error Free Discards are discarded packets even though no errors had been detected to prevent their being transmitted / received. One possible reason for discarding such a labelled packet could be to free up buffer space.
<i>RX / TX discard lookup failure packet rate</i>	Received Discard Lookup Failure Packet Rate, the difference between two contiguous inbound Packets (Rx) sampled values, as a per second average. Transmitted Discard Lookup Failure Packet Rate, the difference between two contiguous outbound Packets (Rx) sampled values, as a per second average.

Table 237 MPLS LSR Performance Report

MPLS VPN Device Details Report

Entuity Report

VPN Device Details



Printed on: 8 Oct 2009 20:29:58 BST

Description: Inventory of devices participating in MPLS VPNs

View: Regional

Devices: 2

Device name	VRF count
c2821	2
e2821	2

MPLS VRF details for device c2821

VRF name	VRF route distinguisher	Active interfaces	Associated interfaces	Routes	Maximum routes	MPLS route targets
?Jeff_Voice	65400:400	1	1	1	0	2
Jeff_Data	65400:300	0	0	0	0	3

MPLS route targets for device c2821 VRF ?Jeff_Voice

Route target	Type
65400:109	Import and Export
65400:102	Export

MPLS route targets for device c2821 VRF Jeff_Data

Route target	Type
65400:101	Import and Export
65400:102	Import
65400:104	Export

MPLS VRF details for device e2821

VRF name	VRF route distinguisher	Active interfaces	Associated interfaces	Routes	Maximum routes	MPLS route targets
?Jeff_Voice	65400:400	1	1	1	0	1
Jeff_Data	65400:300	0	0	0	0	1

MPLS route targets for device e2821 VRF ?Jeff_Voice

Route target	Type
65400:102	Import and Export

MPLS route targets for device e2821 VRF Jeff_Data

Route target	Type
65400:101	Import and Export

Figure 85 MPLS VPN Device Details Report

MPLS VPN Device Details Report Overview

MPLS VPN device summary report – list of devices showing name, global route limit, number of configured VRFs, number of active VRFs and number of interfaces connected to VRFs.

MPLS VPN Device Details Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 238 VPN Device Details Report Options

MPLS VPN Device Details Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. VPN Device Details.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Devices</i>	Number of devices with VRFs.
<i>View</i>	Entuity view against which the report was run.

Table 239 MPLS VPN Device Details Report Header

MPLS VPN Device Details Report Details

Device Details table identifies the devices within the view that have VRFs.

Name	Description
<i>Device Name</i>	Resolved device name or IP address.
<i>MPLS VRFs</i>	Number of VRF associated with the device. It is also a hyperlink to the MPLS VRF table, where each row details a VRF associated with the device.

Table 240 MPLS VPN Device Details

MPLS VRF Details table identifies the MPLS VRFs associated with the device identified in the table header:

MPLS Route Target Details table identifies the route targets associated with the device.

Name	Description
<i>VRF Name</i>	VRF name.
<i>VRF Route Distinguisher</i>	It is the Route Distinguisher that makes the VRF unique, distinguishing between overlapping addresses in the VRF.
<i>Active Interfaces</i>	Number of interfaces associated with the VRF that are up.

Table 241 MPLS VPN Device Details Report

Name	Description
<i>Associated Interfaces</i>	Number of interfaces associated with the VRF, including both active and inactive interfaces.
<i>Routes</i>	Number of routes currently used by this VRF.
<i>Maximum Routes</i>	Maximum number of routes on the VRF. It must be less than or equal to the maximum possible number of routes unless it is set to 0.
<i>MPLS Route Targets</i>	Number of route targets associated with the VRF. It is also a hyperlink to the MPLS Route Target Details table, where each row details a route target associated with the VRF.

Table 241 MPLS VPN Device Details Report

This table details the MPLS route targets for the device.

Name	Description
<i>Route target</i>	It is the Route Distinguisher that makes the VRF unique, distinguishing between overlapping addresses in the VRF.
<i>Type</i>	Indicates the import/export distribution policy for the route target, i.e. import, export and import and export. The configuration of the VPN topology is determined through the Type setting of VRFs.

Table 242 MPLS VPN Device Details Report

MPLS VPN Device Summary Report

Entuity Report

VPN Device Summary



Printed on: 8 Oct 2009 20:32:40 BST

Description: Inventory of Label Switch Routers participating in VPNs

View: Regional

Device name	Number of configured VRFs	Number of active VRFs	Number of interfaces connected to VRFs	VPN global route limit
c2821	2	1	1	0
e2821	2	1	1	0

Figure 86 MPLS VPN Device Summary Report

MPLS VPN Device Summary Report Overview

This report provides an inventory of Label Switch Routers participating in VPNs.

MPLS VPN Device Summary Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 243 MPLS VPN Device Summary Report Options

MPLS VPN Device Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. VPN Device Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run. Configurable through Report Options.

Table 244 MPLS VPN Device Summary Report Header

MPLS VPN Device Summary Report Details

Name	Description
<i>Device Name</i>	Name of the device.
<i>Number of configured VRFs</i>	Number of configured VRFs on the device.
<i>Number of active VRFs</i>	Number of active VRFs on the device
<i>VPN global route limit</i>	Indicates the maximum number of routes, summed across all VRFs, which the device allows. When set to 0, this indicates that the device is unable to determine the absolute maximum, and you could potentially set a configured maximum greater than that allowed by the device.

Table 245 MPLS VPN Device Summary Report

MPLS VPN Route Capacity Report

Entuity Report

VPN Route Capacity



Printed on: 8 Oct 2009 20:31:22 BST

Description: Inventory of VRFs and their route counts

View: Regional

Device name	VRF name	Routes	Maximum routes
c2821	?Jeff_Voice	1	Unlimited
e2821	?Jeff_Voice	1	Unlimited
c2821	Jeff_Data	0	Unlimited
e2821	Jeff_Data	0	Unlimited

Figure 87 VPN Route Capacity Report

MPLS VPN Route Capacity Report Overview

This report provides an inventory of VPN VRF's and their route count, ordered by VRF name.

MPLS VPN Route Capacity Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 246 MPLS VPN Route Capacity Report Options

MPLS VPN Route Capacity Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. VPN Route Capacity.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 247 MPLS VPN Route Capacity Report Header

MPLS VPN Route Capacity Report Details

Name	Description
<i>Device Name</i>	Resolved device name or IP address.
<i>VRF Name</i>	VRF name.
<i>Routes</i>	Number of routes currently used by this VRF.
<i>Maximum Routes</i>	Maximum number of routes on the VRF. It must be less than or equal to the maximum possible number of routes unless it is set to 0.

Table 248 MPLS VPN Route Capacity Report

OSPF Router Peering Report

Entuity Report

OSPF Router Peering



Printed on: 8 Oct 2009 20:34:16 BST

Description: Inventory of routers participating in OSPF with their peer details

View: Regional

Over the period 20:00 on Wed Oct 07 2009 - 20:00 on Thu Oct 08 2009

Router name	Model	Location	Admin status	Area border router	AS border router	Router ID	TOS support	OSPF peer count
c3560	WS-C3560-24TS-E	Entuity Test Room	Enabled	False	False	204.4.143.39	False	3
e2821	2821	Cisco corner in the test room	Enabled	False	False	10.44.1.59	False	3
ioalana	7513	"Europe,ColchesterGDC,7513_2"	Enabled	False	False	10.255.250.25	False	36
new2610	2610	Entuity Test Room	Enabled	False	False	10.44.1.36	False	3
r2610	2610	Entuity Test Room	Enabled	False	False	10.44.1.35	False	3

OSPF peer details for device c3560

Local peer IP address	Remote peer IP address	Peer state	State transition count	Peered router
204.4.143.39	10.44.1.35	Two Way	0	r2610
204.4.143.39	10.44.1.36	Full	0	new2610
204.4.143.39	10.44.1.59	Full	0	e2821

OSPF peer details for device e2821

Local peer IP address	Remote peer IP address	Peer state	State transition count	Peered router
10.44.1.59	10.44.1.35	Full	0	r2610
10.44.1.59	10.44.1.36	Full	0	new2610
10.44.1.59	10.44.1.39	Full	0	c3560

OSPF peer details for device ioalana

Local peer IP address	Remote peer IP address	Peer state	State transition count	Peered router
10.255.250.25	10.10.254.240	Full	0	
10.255.250.25	10.10.254.252	Full	0	
10.255.250.25	10.127.100.189	Full	0	
10.255.250.25	10.127.100.193	Full	0	
10.255.250.25	10.128.100.113	Full	0	
10.255.250.25	10.128.100.117	Full	0	
10.255.250.25	10.128.100.125	Full	0	
10.255.250.25	10.128.100.133	Full	0	
10.255.250.25	10.128.100.153	Full	0	
10.255.250.25	10.128.100.157	Full	0	
10.255.250.25	10.128.100.161	Full	0	
10.255.250.25	10.128.100.173	Full	0	
10.255.250.25	10.128.100.182	Full	0	
10.255.250.25	10.255.250.26	Full	0	
10.255.250.25	10.63.249.21	Full	0	
10.255.250.25	10.63.249.49	Full	0	
10.255.250.25	10.63.249.73	Full	0	
10.255.250.25	10.63.249.77	Full	0	
10.255.250.25	10.63.249.81	Full	0	

Figure 88 OSPF Router Peering Report

OSPF Router Peering Report Overview

This provides an Inventory of routers participating in OSPF together with their peer details.

Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 249 OSPF Router Peering Report Options

OSPF Router Peering Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. OSPF Router Peering.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 250 OSPF Router Peering Report Header

OSPF Router Peering Report Details

Name	Description
<i>Router Name</i>	Device name.
<i>Model</i>	Device model.
<i>Location</i>	Location of the device.
Admin status	Indicates whether OSPF is enabled.
Area border router	Indicates whether the router is an area border router (ABR), one that connects one or more areas to the main backbone network.

Table 251 OSPF Router Peering Report

Name	Description
AS border router	Indicates whether the device is an autonomous system boundary router (ASBR), one that is connected to more than one autonomous system (AS) and that exchanges routing information with routers in other ASs.
Router ID	The unique identifier for the router as defined by the ospf router-id command or the address of the loopback 0 interface.
TOS support	Indicates whether the router supports TOS.
OSPF peer count	Number of associated OSPF peers.

Table 251 OSPF Router Peering Report

This table identifies the OSPF peers of the device.

Name	Description
<i>Local peer IP address</i>	Local IP address of the device.
<i>Remote peer IP address</i>	The remote IP address of this entry's OSPF peer.
<i>Peer State</i>	The state of OSPF with this peered router, which can be: <ul style="list-style-type: none"> ■ init, the initial phase. A HELLO packet was received from this neighbor. ■ twoWay, bidirectional communication with the neighbor. Transmitted HELLO packets have been accepted by the neighbor router (parameters are correct). ■ EXstart, the exchange of Database Description Packets between the router and neighbor is in progress. ■ exchange, the peered routers are currently exchanging Database Description Packets. ■ loading, the peered routers are currently exchanging Link State Advertisements. ■ full, the peered routers Link State Database are now synchronized.
State Transition Count	Established Transitions Count, number of changes in peer status during the polling period. A high value may indicate flapping and require further investigation.
Peered router	Identifier of the peered device.

Table 252 OSPF Peer Device Details

OSPF Peering State Transitions Report

Entuity Report

OSPF Router Peering



Printed on: 29 Nov 2009 04:22:17 GMT

Description: Inventory of routers participating in OSPF with their peer details

View: Regional

Over the period 00:00 on Thu Nov 05 2009 - 00:00 on Sun Nov 29 2009

Router name	Model	Location	Admin status	Area border router	AS border router	Router ID	TOS support	OSPF peer count
c3560	WS-C3560-24TS-E	Entuity Test Room	Enabled	False	False	204.4.143.39	False	3
e2821	2821	Cisco corner in the test room	Enabled	False	False	10.44.1.59	False	3
ioalana	7513	"Europe,ColchesterGDC,7513_2"	Enabled	False	False	10.255.250.25	False	36
new2610	2610	Entuity Test Room	Enabled	False	False	10.44.1.36	False	3
r2610	2610	Entuity Test Room	Enabled	False	False	10.44.1.35	False	3

OSPF peer details for device c3560

Local peer IP address	Remote peer IP address	Peer state	State transition count	Peered router
204.4.143.39	10.44.1.35	Full	0	r2610
204.4.143.39	10.44.1.36	Full	0	new2610
204.4.143.39	10.44.1.59	Full	0	e2821

OSPF peer details for device e2821

Local peer IP address	Remote peer IP address	Peer state	State transition count	Peered router
10.44.1.59	10.44.1.35	Two Way	4	r2610
10.44.1.59	10.44.1.36	Full	0	new2610
10.44.1.59	10.44.1.39	Full	0	c3560

OSPF peer details for device ioalana

Local peer IP address	Remote peer IP address	Peer state	State transition count	Peered router
10.255.250.25	10.10.254.240	Full	0	
10.255.250.25	10.10.254.252	Full	0	
10.255.250.25	10.127.100.189	Full	0	
10.255.250.25	10.127.100.193	Full	0	
10.255.250.25	10.128.100.113	Full	0	
10.255.250.25	10.128.100.117	Full	0	
10.255.250.25	10.128.100.125	Full	0	
10.255.250.25	10.128.100.133	Full	0	
10.255.250.25	10.128.100.153	Full	0	
10.255.250.25	10.128.100.157	Full	0	
10.255.250.25	10.128.100.161	Full	0	
10.255.250.25	10.128.100.173	Full	0	
10.255.250.25	10.128.100.182	Full	0	
10.255.250.25	10.255.250.26	Full	0	
10.255.250.25	10.63.249.21	Full	0	
10.255.250.25	10.63.249.49	Full	0	
10.255.250.25	10.63.249.73	Full	0	
10.255.250.25	10.63.249.77	Full	0	
10.255.250.25	10.63.249.81	Full	0	

Figure 89 OSPF Peering State Transitions Report

OSPF Peering State Transitions Report Overview

This report provides an inventory of OSPF peers that have changed state.

Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 253 Report Options

OSPF Peering State Transitions Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. OSPF Peering State Transitions.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 254 OSPF Peering State Transitions Report Header

OSPF Peering State Transitions Report Details

Name	Description
<i>Local IP address</i>	Local IP address of the device.
<i>Remote IP address</i>	The remote IP address of this entry's OSPF peer.

Table 255 OSPF Peer Device Details

Name	Description
<i>Peer State</i>	<p>The state of OSPF with this peered router, which can be:</p> <ul style="list-style-type: none"> ■ init, the initial phase. A HELLO packet was received from this neighbor. ■ twoWay, bidirectional communication with the neighbor. Transmitted HELLO packets have been accepted by the neighbor router (parameters are correct). ■ EXstart, the exchange of Database Description Packets between the router and neighbor is in progress. ■ exchange, the peered routers are currently exchanging Database Description Packets. ■ loading, the peered routers are currently exchanging Link State Advertisements. ■ full, the peered routers Link State Database are now synchronized.
State Transition Count	Established Transitions Count, number of changes in peer status during the polling period. A high value may indicate flapping and require further investigation.
Local router	Identifier of the local device.
Peered router	Identifier of the peered device.

Table 255 OSPF Peer Device Details

Switch Port Connectivity Report

Entuity Report

Switch Port Connectivity



Printed on: 8 Oct 2012 20:38:27 BST

Description: Port configuration and host connection details

View: Regional

Not displaying ports that are virtual, trunks, uplinks or administratively disabled

Name: 10.44.1.62

sysName: HPCOL1

Location:

Manufacturer: Hewlett Packard

Model: C.25.80

Serial number: n/a

Version:

Management IP: 10.44.1.62

Port count (displayed): 1

System descr: HP ETHERNET MULTI-ENVIRONMENT,ROM C.25.80,JETDIRECT_JD115,EEPROM V.28.06,CIDATE 04/27/2004

Port description	Oper status	Speed (Mbps)	Duplex	VLAN	Host MAC address	IP address
[00001] HP ETHERNET MULTI-ENVIRONMENT,ROM C.25.80,JETDIR	up	10	Unknown			

Figure 90 Switch Port Connectivity Report

Switch Port Connectivity Report Overview

This report provides an overview of switch port details including connected host(s). It excludes ports that are virtual, trunks, uplinks or administratively disabled.

Switch Port Connectivity Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device, or All Devices , to run the report against.
Include hostnames (takes longer)	Select to include hostnames to the report. Gathering this extra information increases the length of time to generate the report.

Table 256 Switch Port Connectivity Report Options

Switch Port Connectivity Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.

Table 257 Switch Port Connectivity Report Header

Name	Description
<i>Report title</i>	Report title, e.g. Switch Port Connectivity.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 257 Switch Port Connectivity Report Header

Switch Port Connectivity Report Details

Name	Description
<i>Name</i>	Device name.
<i>sysName</i>	Device system name.
<i>Location</i>	Device SysLocation, or where not available it is left blank.
<i>Manufacturer</i>	Manufacturer name is derived by matching the manufacturer number against the first 2500 Private Enterprise Codes compiled by the Internet Assigned Numbers Authority (http://www.iana.org/assignments/enterprise-numbers). Where the manufacturer code is not matched then the first part of the device name is taken, usually this is the manufacturer's name.
<i>Serial number</i>	Device serial number.
<i>Mngd. IP</i>	IP address Entuity uses to poll the device.
<i>Description</i>	System description, which for a Cisco device is a parsed sysDescr with model, version and serial number.
<i>Model</i>	The device model.
<i>Version</i>	The device version number.
<i>Ports (displayed)</i>	Number of ports on the device included to the report.

Table 258 Device Inventory Summary

9 Dashboard Panels

Dashboard panels are a set of reports intended for inclusion to your custom dashboards. They do not include the standard report headers and footers; space within a custom dashboard panel is at a premium and the focus is on the information included to the report.

Running Dashboard Panels

You can run these reports from the web interface:

- 1) Click **Reports**.
- 2) Click **Dashboard Panels**. Entuity displays the list of available reports.

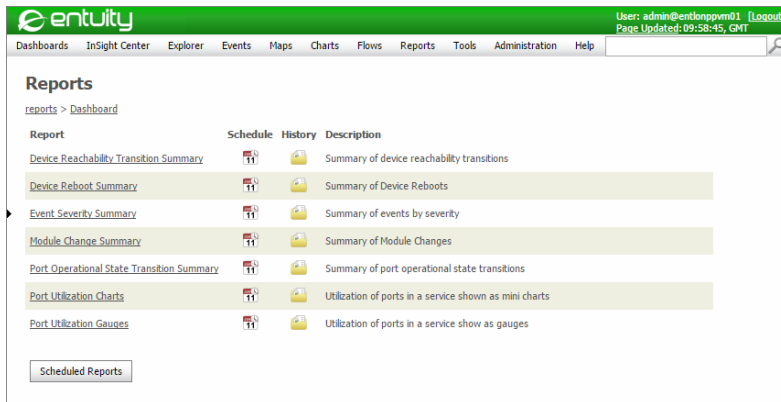


Figure 91 Dashboard Panels

Device Reachability Transition Details

Device Reachability Transition Details		Summary
View: My Network		
Time of transition	Device name	Reachable
16/11/12 23:39	apcr1	No
16/11/12 23:41	apcr1	Yes
16/11/12 23:47	apcr1	No
16/11/12 23:47	apcr2	No
16/11/12 23:49	apcr1	Yes
16/11/12 23:49	apcr2	Yes
16/11/12 23:57	apcr4	No
16/11/12 23:59	apcr4	Yes
17/11/12 00:09	apcr2	No
17/11/12 00:11	apcr2	Yes
17/11/12 00:39	apcr1	No
17/11/12 00:41	apcr1	Yes
17/11/12 00:59	apcr4	No
17/11/12 01:01	apcr4	Yes

Figure 92 Device Reachability Transition Details

Device Reachability Transition Details Overview

Device Reachability State Transition Details report is opened in the context of the selected column in the Device Reachability Transition Summary report. It lists the changes in device reachability over a two hour period. There is a hyperlink back to the Device Reachability Transition Summary report.

Device Reachability Transition Details Options

Device Reachability State Transition Details report is opened in the context of the selected column in the Device Reachability Transition Summary report.

Device Reachability Transition Details

Name	Description
View	Entuity view against which the report is run.
<i>Time of transition</i>	Date and time of the change in device reachability.
Device name	Name of the device.
Reachable	The reachability state the device transitioned to.

Table 259 Device Reachability Transition Details

Device Reachability Transition Summary

Device Reachability State Transition Summary

Counts of devices with reachability state transitions in view: My Network
Within 24 hours: **8** 8 hours: **5** 1 hour: **2** 30 minutes: **2**

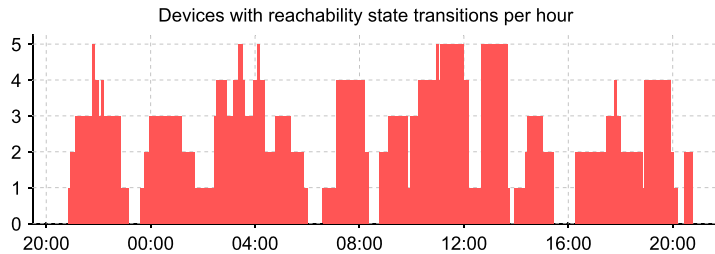


Figure 93 Device Reachability Transition Summary

Device Reachability Transition Summary Overview

Device Reachability State Transition Summary charts, in 30 minute blocks, the number of changes in reachability of devices within the selected view, on the selected server or servers.

The report includes 4 summaries for the number of devices with transitions; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context a Device Uptime, Reachability and Last Reboot Time report.



The reporting period of the Device Uptime, Reachability and Last Reboot Time report starts from the time the report is called. For example within the context of the 1 hour reporting period, run the report at 10:20 and the reporting period is from 09:21 to 10:20.

From within the chart when you move the mouse pointer over a column the tooltip details for that 30 minute period the:

- Total number of reboots.
- Total number of devices that had reboots.
- Names of devices with reboots and their number of reboots.

Device Reachability Transition Summary Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.

Table 260 Device Reachability Transition Summary Options

Name	Description
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report period</i>	Period over which the report applies, by default the previous 24 hours with the reporting period starting from the time the report is run. When you select: <ul style="list-style-type: none"> <li>■ Recent, you specify time period in relation to the time the report is run, e.g. 24 hours before the report time. <li>■ Range, you can enter start and end dates and times.

Table 260 Device Reachability Transition Summary Options

Device Reachability Transition Summary

Name	Description
Counts of devices with reachability state transitions in view	Entuity view against which the report is run. There are 4 summaries for the number of devices with transitions; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context a Device Uptime, Reachability and Last Reboot Time report.
<i>Devices with reachability state transitions</i>	Each column represents the number of devices with a reachability state transition within the 30 minute period. When you move the mouse pointer over a column the tooltip details the: <ul style="list-style-type: none"> <li>■ Total number of reboots. <li>■ Total number of devices that had reboots. <li>■ Names of devices with reboots and their number of reboots. You can click on the count of each column to run in that context a Device Reachability Transition Details report.

Table 261 Device Reachability Transition Summary

Device Reboot Details

Device Reboot Details		Summary
View: My Network		
Time of reboot	Device name	
18/09/12 16:58	w2	
18/09/12 17:03	w2	
18/09/12 17:08	w2	
18/09/12 17:13	w2	
18/09/12 17:18	w2	
18/09/12 17:23	w2	
18/09/12 17:28	w2	
18/09/12 17:31	brotherm	
18/09/12 17:33	w2	
18/09/12 17:38	w2	
18/09/12 17:42	brotherm	
18/09/12 17:43	w2	
18/09/12 17:48	w2	
18/09/12 17:53	w2	
18/09/12 17:58	w2	
18/09/12 18:03	w2	

Figure 94 Device Reboot Details

Device Reboot Details Overview

Device Reboot Details report is opened in the context of the selected column in the Device Reboot Summary report. It lists the changes in device reboots over a two hour period. There is a hyperlink back to the Device Reboot Summary report.

Device Reboot Details Options

Device Reboot Details report is opened in the context of the selected column in the Device Reboot Summary report.

Device Reboot Details

Name	Description
View	Entity view against which the report is run.
<i>Time of reboot</i>	Date and time of the device reboot.
Device name	Name of the device.

Table 262 Device Reboot Details

Device Reboot Summary

Device Reboot Summary

Counts of devices that have rebooted in view: My Network

Within 24 hours: **2** 8 hours: **2** 1 hour: **2** 30 minutes: **1**

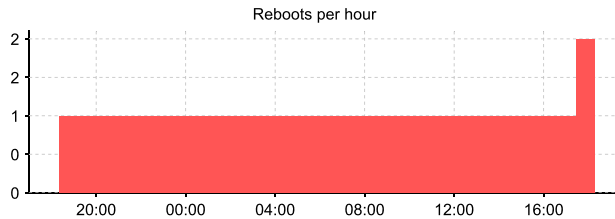


Figure 95 Device Reboot Summary

Device Reboot Summary Overview

Device Reboot Summary charts, in 30 minute blocks, the number of reboots of devices within the selected view, on the selected server or servers.

The report includes 4 summaries for the number of devices with reboots; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context a Device Reboot Details report.



The reporting period of the Device Reboot Details report starts from the time the report is called. For example within the context of the 1 hour reporting period, run the report at 10:20 and the reporting period is from 09:21 to 10:20.

From within the chart when you move the mouse pointer over a column the tooltip details for that 30 minute period the:

- Total number of reboots.
- Total number of devices that had reboots.
- Names of devices with reboots and their number of reboots.

Device Reboot Summary Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 263 Device Reboot Summary Options

Name	Description
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 263 Device Reboot Summary Options

Device Reboot Summary

Name	Description
Counts of devices with reachability state transitions in view	Entuity view against which the report is run. There are 4 summaries for the number of devices with reboots; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context a Device Reboot Summary report.
<i>Devices with reachability state transitions</i>	Each column represents the number of devices with a reboot within the 30 minute period. When you move the mouse pointer over a column the tooltip details the: <ul style="list-style-type: none"> ■ Total number of reboots. ■ Total number of devices that had reboots. ■ Names of devices with reboots and their number of reboots.

Table 264 Device Reboot Summary

Event Severity Details

Event Details			Summary
View: My Network			
Sev	Time	Source	Event type
Critical	12:42:14	brotherm	Network Outage
Severe	12:43:00	w2	Device Reboot Detected
Info	12:44:04	e2821 : EYE (1 on e2821)	IP SLA Test Succeeded
Info	12:44:14	brotherm	Network Outage Cleared
Severe	12:48:00	w2	Device Reboot Detected
Severe	12:53:00	w2	Device Reboot Detected
Minor	12:56:13	lonswsk1	SNMP Agent Not Responding
Severe	12:58:00	w2	Device Reboot Detected
Info	12:58:14	lonswsk1	SNMP Agent Responding
Critical	12:59:04	e2821 : EYE (1 on e2821)	IP SLA Test Failed
Severe	13:03:00	w2	Device Reboot Detected
Severe	13:08:00	brotherm	Device Reboot Detected
Severe	13:08:00	w2	Device Reboot Detected

Figure 96 Event Severity Details

Event Severity Details Overview

Event Severity Details report is opened in the context of the selected column in the Event Severity Summary report. It lists events of all severity levels raised over the selected time period. There is a hyperlink back to the Event Severity Summary report.

Event Severity Details Options

Event Severity Details report is opened in the context of the selected column in the Event Severity Summary report.

Event Severity Details

Name	Description
View	Entuity view against which the report is run.
Sev	Severity level of the event.
Time	Time Entuity raised the event.
Source	Identifying information of the managed object against which Entuity raises the event.
Event type	The name of the raised event.

Table 265 Event Severity Details

Event Severity Summary

Event Severity Summary

Counts of events in view: My Network

Within 24 hours: **564** 8 hours: **177** 1 hour: **23** 30 minutes: **10**

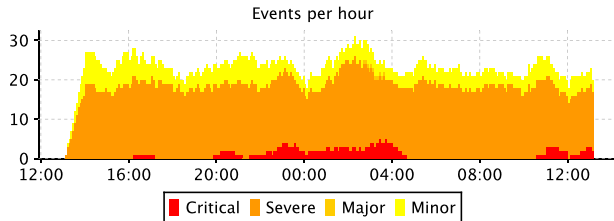


Figure 97 Event Severity Summary

Event Severity Summary Overview

Event Severity Summary charts, in 30 minute blocks, the number of events Entuity raised in the selected view, on the selected server or servers. The report does not include events with the severity level information only.

The report includes 4 summaries for the number of raised events; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context an Event Severity Details report.

From within the chart when you move the mouse pointer over a column the tooltip details for that 30 minute period the total number of events, and the number of events raised for each event type.

Event Severity Summary Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. <input checked="" type="checkbox"/> Range, you can enter start and end dates and times.

Table 266 Event Severity Summary Options

Event Severity Summary

Name	Description
Counts of events in view	Entuity view against which the report is run. There are 4 summaries for the number of raised events; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context an Event Severity Summary report.
<i>Events</i>	Each column represents the number of events raised within the 30 minute period. The severity levels of events is indicated through the color coded chart. When you move the mouse pointer over a column the tooltip details for that 30 minute period the total number of events, and the number of events raised for each event type.

Table 267 Device Reboot Summary

Module Change Details

Module Change Details		Summary
View: My Network		
Time	Device:Module	Change description
11:55	new2610:Module 4:WS-C2960-24TT-L	Removed
11:55	new2610:Module 3:C2600 Mainboard	Removed
11:55	new2610:Module 3:C2600 Mainboard	Added
11:55	new2610:Module 6:WAN Interface Card - Serial 2T	Added
12:00	c3845.vendor.entuity.lab	Removed
12:00	c3845.vendor.entuity.lab	Removed
12:00	c3845.vendor.entuity.lab	Removed
12:00	c3845.vendor.entuity.lab	Removed
12:00	c3845.vendor.entuity.lab	Removed
12:00	c3845.vendor.entuity.lab	Removed
12:00	c3845.vendor.entuity.lab:Two port E1 voice interface daughtercard:Two port E1 voice interface daughtercard	Added
12:00	c3845.vendor.entuity.lab:Two port E1 voice interface daughtercard:Two port E1 voice interface daughtercard	Added

Figure 98 Module Change Details

Module Change Details Overview

Module Change Details report is opened in the context of the selected column in the Module Change Summary report. It lists module changes over a two hour period. There is a hyperlink back to the Module Change Summary report.

Module Change Details Options

Module Change Details report is opened in the context of the selected column in the Module Change Summary report.

Module Change Details

Name	Description
View	Entuity view against which the report is run.
Time	Time of the Module Change.
Device:Module name	Name of the device and the changed module.
Change description	The type of change to the module, e.g. Removed.

Table 268 Module Change Details

Module Change Summary

Module Change Summary

Counts of devices with module changes in view: My Network

Within 24 hours: **15** 8 hours: **15** 1 hour: 30 minutes:

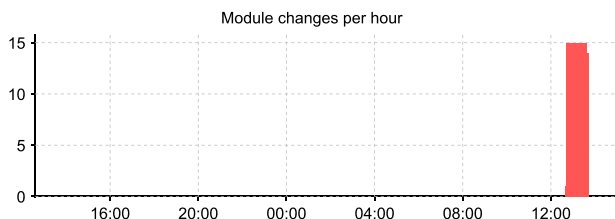


Figure 99 Module Change Summary

Module Change Summary Overview

Module Change Summary charts, in 30 minute blocks, the number of devices with module changes within the selected view, on the selected server or servers.

The report includes 4 summaries for the number of devices with module changes; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context a Module Change Details report.

From within the chart when you move the mouse pointer over a column the tooltip details for that 30 minute period the:

- Total number of module changes.
- Total number of devices that had module changes.
- Names of devices with module changes and their number of changes.

Module Change Summary Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none">■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time.■ Range, you can enter start and end dates and times.

Table 269 Module Change Summary Options

Module Change Summary

Name	Description
Counts of devices with module changes in view	Entuity view against which the report is run. There are 4 summaries for the number of devices with module changes; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context a Module Change Details report.
<i>Module Changes</i>	<p>Each column represents the number of devices with a module change within the 30 minute period. When you move the mouse pointer over a column the tooltip details the:</p> <ul style="list-style-type: none"> ■ Total number of modules. ■ Total number of devices that had module changes. ■ Names of devices with module changes and their number of changes.

Table 270 Module Change Summary

Port Operational State Transition Details

Device Reboot Details

Summary

View: My Network

Time of reboot	Device name
18/09/12 16:58	w2
18/09/12 17:03	w2
18/09/12 17:08	w2
18/09/12 17:13	w2
18/09/12 17:18	w2
18/09/12 17:23	w2
18/09/12 17:28	w2
18/09/12 17:31	brotherm
18/09/12 17:33	w2
18/09/12 17:38	w2
18/09/12 17:42	brotherm
18/09/12 17:43	w2
18/09/12 17:48	w2
18/09/12 17:53	w2
18/09/12 17:58	w2
18/09/12 18:03	w2

Figure 100 Port Operational State Transition Details

Port Operational State Transition Details Overview

Port Operational State Transition Details report is opened in the context of the selected column in the Port Operational State Transition Summary report. It lists Port Operational State Transitions over a two hour period. There is a hyperlink back to the Port Operational State Transition Summary report.

Port Operational State Transition Details Options

Port Operational State Transition Details report is opened in the context of the selected column in the Port Operational State Transition Summary report.

Port Operational State Transition Details

Name	Description
View	Entity view against which the report is run.
<i>Time of change</i>	Date and time of the Port Operational State Transition.
Port	Name of the port.

Table 271 Port Operational State Transition Details

Port Operational State Transition Summary

Port Operational State Transition Summary

Counts of ports with operational state transitions in view: My Network

Within 24 hours: **3** 8 hours: **2** 1 hour: 30 minutes:

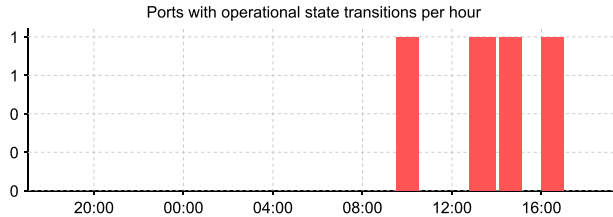


Figure 101 Port Operational State Transition Summary

Port Operational State Transition Summary Overview

Port Operational State Transition Summary charts, in 30 minute blocks, the number of changes in the operational state of devices within the selected view, on the selected server or servers.

The report includes 4 summaries for the number of ports with transitions; within the last 24 hours, 8 hours, 1 hour and 30 minutes. You can click on the count of each to run in that context a Device Uptime, Reachability and Last Reboot Time report.



The reporting period of the Device Uptime, Reachability and Last Reboot Time report starts from the time the report is called. For example within the context of the 1 hour reporting period, run the report at 10:20 and the reporting period is from 09:21 to 10:20.

From within the chart when you move the mouse pointer over a column the tooltip details for that 30 minute period the:

- Total number of reboots.
- Total number of devices that had reboots.
- Names of devices with reboots and their number of reboots.

Port Operational State Transition Summary Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 272 Port Operational State Transition Summary Options

Name	Description
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 272 Port Operational State Transition Summary Options

Port Operational State Transition Summary

Name	Description
Device Reachability	Indicates the subsequent charts graph the reachability of devices in the branch office view.
<i>Device name</i>	Identifier of the device, e.g. host name or IP address.
Reachability %	The length of time the device responds to ping as a percentage of the reporting period.
Unreachable Time	The length of time the device was unreachable during the reporting period.

Table 273 Port Operational State Transition Summary

Port Utilization Charts

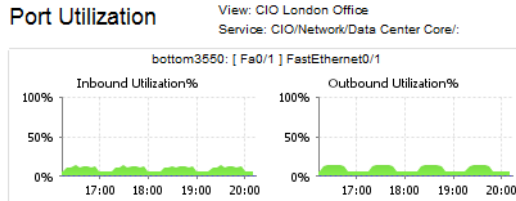


Figure 102 Port Utilization Charts

Port Utilization Charts Overview

Port Utilization Charts report is run against ports in the selected sub-service. It displays for the selected port or ports the last 4 hours of polled inbound and outbound utilization data represented through two filled line charts. You can click on a chart, for example inbound utilization, to display a graph of the previous 24 hours of the selected utilization data, you can also overlay the other set of utilization, for example outbound, data.

Port Utilization Charts Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a service</i>	Entuity service against which the report is to be run.
<i>Please select a subservice</i>	Entuity service against which the report is to be run. The drop down list includes the root service and all subservices.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 274 Port Utilization Charts Options

Port Utilization Charts Summary

For each port two filled line charts display the last four hours inbound and outbound utilization data. You can click on a chart to display the metric in a configurable chart.

Port Utilization Gauges

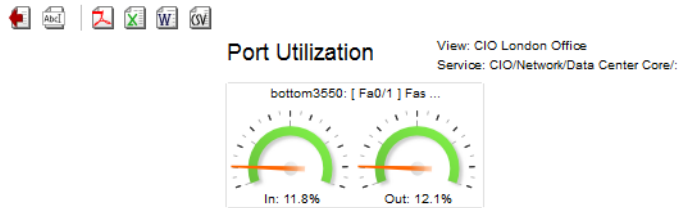


Figure 103 Port Utilization Gauges

Port Utilization Gauges Overview

Port Utilization Gauges report is run against ports in the selected sub-service. It displays for the selected port or ports the last polled inbound and outbound utilization data represented through two charts. You can click on a chart, for example inbound utilization, to display a graph of the previous 24 hours of the selected utilization data, you can also overlay the other set of utilization, for example outbound, data.

Port Utilization Gauges Options

Name	Description
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a service</i>	Entuity root service against which the report is to be run.
<i>Please select a subservice</i>	Entuity service against which the report is to be run. The drop down list includes the root service and all subservices.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 275 Port Utilization Gauges Options

Port Utilization Gauges Summary

Gauges provide an at-a-glance speedometer type view of a key metric. A label above the gauge identifies the device and port, Entuity displays the last polled value of the metric below the gauge.

The key metric gauge graphs are of two forms a:

- green only gauge is used with metrics that do not have thresholds.
- green and red gauge is used with metrics that have thresholds. When the indicator is pointing to the red area then the threshold has been crossed. The relative size of the red and green areas of the gauge is fixed, i.e. the red area does not take a larger or smaller proportion of the total area of the gauge on changes to the threshold level.
You can view the current threshold value by passing the cursor over the data value below the graph.

You can click on a gauge to display the metric in an interactive chart.

10 Green IT Reports

From the InSight Center you can use Entuity's Green IT Perspective™ to manage the discipline of policies that reduce the energy consumption of your network. The Green IT Perspective:

- Assist both network and general managers to reduce wasted power consumption associated with leaving desktop/notebook PCs running twenty-four/seven where they could be safely turned off outside the working day.
- Quantifies the power savings both enterprise-wide and per department. The savings already being achieved by current equipment shutdown behavior is quantified along with the potential additional savings if all appropriate nightly shutdowns were to be performed across the board.
- Identifies trends in shutdown policy conformance by department.
- Identifies those who should be targeted when looking to achieve better policy conformance and thereby higher savings.
- Quantifies the power used by the managed infrastructure devices.
- Identifies switches with high or low number/proportions of spare ports.
- Quantifies the power used by the switches per used port to evaluate power efficiency.
- Identifies servers that are lightly used and might become the target of consolidation initiatives to reduce data center power utilization.

Running Green IT Reports

You can run Green IT reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Green Reports**. Entuity displays the list of available reports.

The screenshot shows the Entuity web interface. At the top, the Entuity logo is on the left, and the user information 'User: admin@entl0nppvm01 [Logout]' and 'Page Updated: 14:02:32, BST' is on the right. A navigation menu includes 'Dashboards', 'Insight Center', 'Explorer', 'Events', 'Maps', 'Charts', 'Flows', 'Reports', 'Tools', 'Administration', and 'Help'. The main content area is titled 'Reports' and shows a breadcrumb 'reports > GreenReports'. Below this is a table of reports with columns for 'Report', 'Schedule', 'History', and 'Description'. A 'Scheduled Reports' button is located at the bottom left of the report list.

Report	Schedule	History	Description
Green IT Perspective			Overview of the reporting facilities relevant to a Green IT initiative
Missing Device Power			Catalog those devices for which no nominal power specification is present
Missing Module Power			Catalog those modules for which no nominal power specification is present
Power Consumption Overview			Overview of managed device power consumption for all accessible views
Power Consumption by View			Managed device power consumption for all the devices in a view
Server Activity History			Charts of activity metrics for a server
Shutdown Compliance by Group			Compliance to the shutdown policy for a group
Shutdown Compliance by Host			Compliance to the shutdown policy for a host
Shutdown Policy Compliance			Overview of the level of compliance of all policy groups
Spare Ports Overview			Overview of spare port and power consumption statistics for multiple views
Spare Ports by Device			Spare ports for a device
Spare Ports by View			Spare port and power consumption statistics for a view
Underutilized Servers			Servers ranked by various metrics to highlight low usage

Figure 104 Green IT Reports

Shutdown Compliance by Host Report

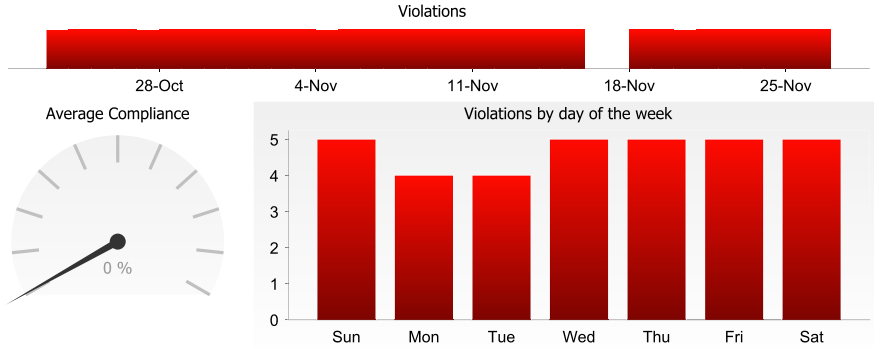
Entuity Report

Shutdown Policy Compliance by Host



Printed on: 26 Nov 2012 15:20:06 GMT

Host: 10.44.1.1 / 10.44.1.1 / 00:1B:54:AB:05:2B



List of Violations

Date
Tuesday 23rd October
Wednesday 24th October
Thursday 25th October
Friday 26th October
Saturday 27th October
Sunday 28th October
Monday 29th October
Tuesday 30th October
Wednesday 31st October
Thursday 1st November
Friday 2nd November
Saturday 3rd November
Sunday 4th November
Monday 5th November
Tuesday 6th November
Wednesday 7th November
Thursday 8th November
Friday 9th November
Saturday 10th November
Sunday 11th November
Monday 12th November
Tuesday 13th November
Wednesday 14th November

List of Violations

Date
Thursday 15th November
Sunday 18th November
Monday 19th November
Tuesday 20th November
Wednesday 21st November
Thursday 22nd November
Friday 23rd November
Saturday 24th November
Sunday 25th November
Monday 26th November

Figure 105 Shutdown Compliance by Host Report

Shutdown Compliance by Host Report Overview

This report provides an overview of shutdown compliance for the selected host.

Shutdown Compliance by Host Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Select Group</i>	Entuity group against which the report was run.
<i>Host MAC</i>	MAC address of the device to include to the report.

Table 276 Shutdown Compliance by Host Report Header

Shutdown Compliance by Host Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>Host</i>	MAC address of the device to include to the report.

Table 277 Shutdown Compliance by Host Report Header

Shutdown Compliance by Host Report Details

Name	Description
<i>Violations</i>	Graphed representation of when the host transgressed the compliance policy during the reporting period.
<i>Average Compliance</i>	The gauge provides the average compliance over the monitoring period for the host, as a percentage of the maximum potential compliance.
<i>Violations by Day of the Week</i>	Number of policy transgressions, graphed by day of the week during the reporting period.
List of Violations	Dates during the reporting period that the host transgressed the compliance policy.

Table 278 Shutdown Compliance by Host

Shutdown Compliance by Group Report

Entuity Report

Shutdown Policy Compliance by Group



Printed on: 26 Nov 2012 15:16:53 GMT

Group: All Hosts

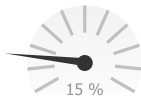
Total hosts during last check: 360

Estimated* current annual savings from nightly shutdowns: \$3,086 32,620 kWh 23 tons CO2

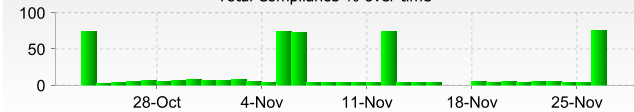
Estimated* maximum annual savings: \$20,192 213,448 kWh 153 tons CO2

Estimated* potential additional annual savings: \$17,106 180,828 kWh 130 tons CO2

Average compliance



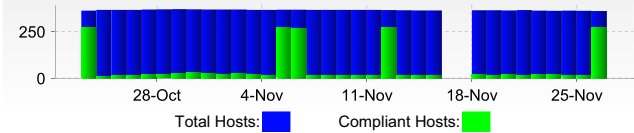
Total Compliance % over time



Last check compliance



Hosts and compliant hosts



Hosts with highest number of violations (capped to 500 hosts)

Host name	IP address	MAC address	Violation count
10.44.1.1	10.44.1.1	00:1B:54:AB:05:2B	33
10.44.1.14	10.44.1.14	00:1A:A0:2C:36:5E	33
redmond.entuity.local	10.44.1.16	00:0C:29:B9:FB:0F	33
lon-dev-tst10.entuity.local	10.44.1.18	00:13:72:94:51:7B	33
wintest02.entuity.local	10.44.1.19	00:0C:29:96:68:46	33
cyclone.entuity.local	10.44.1.20	00:22:19:B9:76:57	33
THUNDERSTORM	10.44.1.21	00:23:8B:BD:AA:B9	33
wintest03.entuity.local	10.44.1.25	00:0C:29:C1:1D:EC	33
sputnik.entuity.local	10.44.1.26	00:15:C5:5E:64:1C	33
windsock.entuity.local	10.44.1.30	08:00:20:BC:58:26	33
MOKE	10.44.1.32	00:04:23:22:BB:B4	33
lonsolfs01.entuity.local	10.44.1.33	00:03:BA:4F:DB:E5	33
lonsoltest01.entuity.local	10.44.1.34	00:03:BA:A6:0C:03	33
top3550.entuity.com	10.44.1.42	00:11:92:EB:3A:00	33
wintest06.entuity.local	10.44.1.49	00:0C:29:16:3A:76	33
wintest07.entuity.local	10.44.1.51	00:0C:29:AD:22:F0	33
wintest08.entuity.local	10.44.1.53	00:0C:29:6D:00:DD	33
redmond2.entuity.local	10.44.1.56	00:0C:29:E4:F4:A2	33
saturn.entuity.local	10.44.1.57	00:0C:29:01:B7:D9	33

* Estimates are based on data supplied by hardware vendors and configurable values preset by Entuity and modifiable by the user

Figure 106 Shutdown Compliance by Group Report

Shutdown Compliance by Group Report Overview

This report provides an overview of shutdown compliance for the selected compliance group.

Shutdown Compliance by Host Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Group Name</i>	Entuity group against which the report was run.
<i>Daily excess kWh for a host</i>	Allows the average wasted power per host per day for hosts that are not shut off when they should be to be set. For a host that should be used for an 8 hour working day there should be 16 hours where it can be shut off. If the average consumption of hosts is 100W (a bit higher than most laptops but lower than desktops) then there would be 1600Wh (1.6kWh) of power associated with those 16 hours.
<i>Cost per kWh of Electricity,</i>	Cost per kilo watt hour of electricity.
<i>Currency symbol</i>	Identifies the currency used to display values, by default \$.
<i>Tons of CO2 per kWh</i>	Tons of CO2 generated per kilo watt hour, by default 0.000718.

Table 279 Shutdown Compliance by Host Report Header

Shutdown Compliance by Group Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Group.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Group</i>	Name of the group to apply the report against, including All Hosts.
<i>Total Hosts during last check</i>	Number of hosts within the group.
<i>Estimated Current annual savings from nightly shutdown</i>	Provides an indicator of the benefits to your organization of this group's compliance to the overnight shutdown initiative.
<i>Estimated maximum annual savings</i>	The potential savings in currency, kilowatts and CO2 if one hundred percent compliance was achieved.
<i>Estimated potential additional annual savings</i>	The difference between current annual savings and maximum annual savings.

Table 280 Shutdown Compliance by Group Report Header

Shutdown Compliance by Group Report Details

Name	Description
<i>Average Compliance</i>	The gauge provides the average compliance over the monitoring period for the group, as a percentage of the maximum potential compliance.
<i>Total Compliance % over time</i>	Graphs compliance as a percentage of maximum potential compliance over the reporting period.
<i>Last Check Compliance</i>	The gauge provides a measure of workstation shutdown compliance over the last poll (by default the previous day) for the group, as a percentage of the maximum potential compliance.
<i>Hosts and compliant hosts</i>	Graphs total number of hosts and the number of hosts that are compliant over the reporting period.
<i>Hosts with highest Number of violations</i>	Table orders by number of violations the top N in-compliant hosts. Each row in the table lists for each poor performing host: <i>Host Name</i> , resolved name, or IP address, of the host. <i>IP Address</i> , management IP address of the host. <i>MAC Address</i> , host MAC address. <i>Number of Violations</i> , number of violations in the reporting period.

Table 281 Shutdown Compliance by Group

Shutdown Compliance Overview Report

Entuity Report

Shutdown Policy Conformance Overview



Printed on: 26 Nov 2012 15:10:31 GMT

Sorted by: Group_Name

Estimated* current annual savings from nightly shutdowns: \$3,920 41,439 kWh 30 tons CO2

Estimated* maximum annual savings: \$25,181 266,185 kWh 191 tons CO2

Estimated* potential additional annual savings: \$21,261 224,746 kWh 161 tons CO2

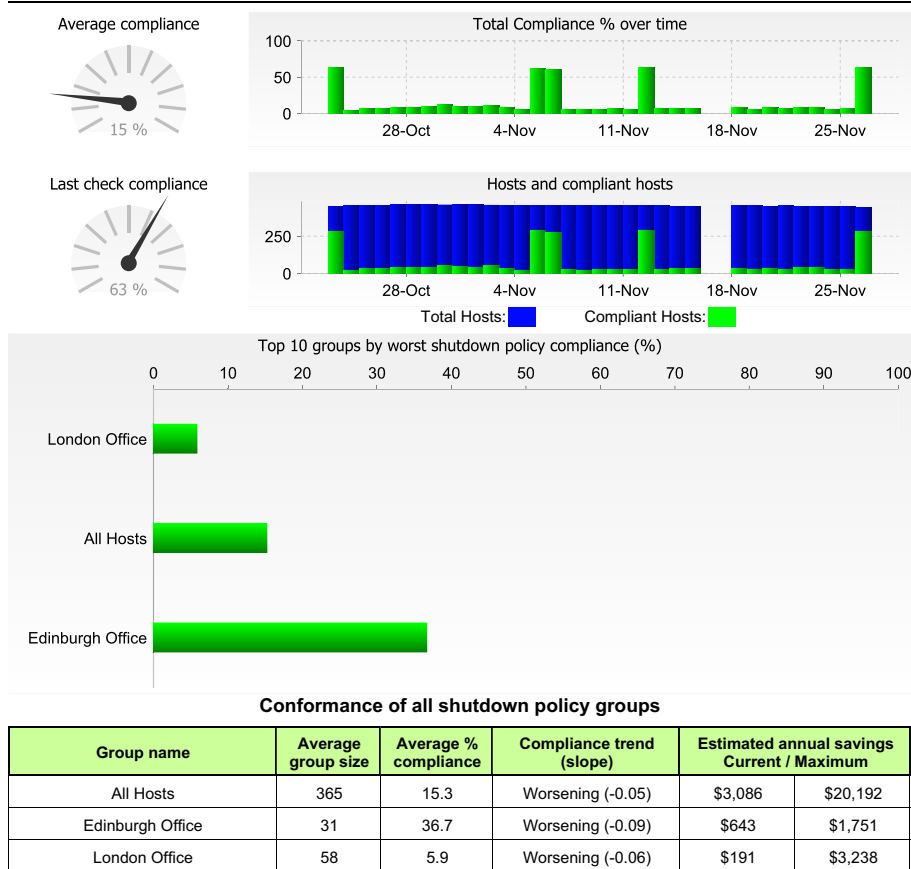


Figure 107 Shutdown Compliance Overview Report

Shutdown Compliance Overview Report Overview

This report provides an overview of shutdown compliance.

Shutdown Compliance Overview Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Daily excess kWh for a host</i>	Allows the average wasted power per host per day for hosts that are not shut off when they should be to be set. For a host that should be used for an 8 hour working day there should be 16 hours where it can be shut off. If the average consumption of hosts is 100W (a bit higher than most laptops but lower than desktops) then there would be 1600Wh (1.6kWh) of power associated with those 16 hours.
<i>Cost per kWh of Electricity,</i>	Cost per kilo watt hour of electricity.
<i>Currency symbol</i>	Identifies the currency used to display values, by default \$.
<i>Sort column</i>	Select from the drop-down list the attribute on which you want to sort the groups in the conformance table.
<i>Tons of CO2 per kWh</i>	Tons of CO2 generated per kilo watt hour, by default 0.000718.

Table 282 Shutdown Compliance by Host Report Header

Shutdown Compliance Overview Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance Overview.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Sorted by</i>	The attribute on which the groups in the conformance table or sorted.
<i>Estimated Current annual savings from nightly shutdown</i>	Provides an indicator of the benefits to your organization of this group's compliance to the overnight shutdown initiative.
<i>Estimated maximum annual savings</i>	The potential savings in currency, kilowatts and CO2 if one hundred percent compliance was achieved.
<i>Estimated potential additional annual savings</i>	The difference between current annual savings and maximum annual savings.

Table 283 Shutdown Compliance Overview Report Header

Shutdown Compliance Overview Report Details

Name	Description
<i>Average Compliance</i>	The gauge provides the average compliance over the monitoring period for the organization, as a percentage of the maximum potential compliance.
<i>Total Compliance % over time</i>	Graphs compliance as a percentage of maximum potential compliance over the reporting period.
Last check compliance	The gauge provides a measure of workstation shutdown compliance over the last poll (by default the previous day), as a percentage of the maximum potential compliance.
<i>Hosts and compliant hosts</i>	Graphs total number of hosts and the number of hosts that are compliant over the reporting period.
Top 10 Groups by Worst Shutdown Policy Compliance	<p>Graphs the worst performing groups over the reporting period. Each row in the table lists for each poor performing group:</p> <p><i>Group Name</i>, name of the exclusion policy group.</p> <p><i>Average Group Size</i>, number of managed objects within the exclusion policy group.</p> <p><i>Average % Compliance</i>, the number of hosts that were recognized as off overnight, as a percentage of the total managed hosts for that group, averaged over the period Entuity has managed them.</p> <p><i>Compliance Trend (slope)</i>, indicates the direction of compliance, improving, declining and Flat. The trend is calculated by linear regression, 0 is flat, positive is increasing, negative is decreasing. The larger the number the steeper the slope.</p> <p><i>Annual Savings Current/Maximum</i>, the estimated current and potential maximum monetary value savings.</p>

Table 284 Shutdown Compliance Overview

Green IT Perspective Report

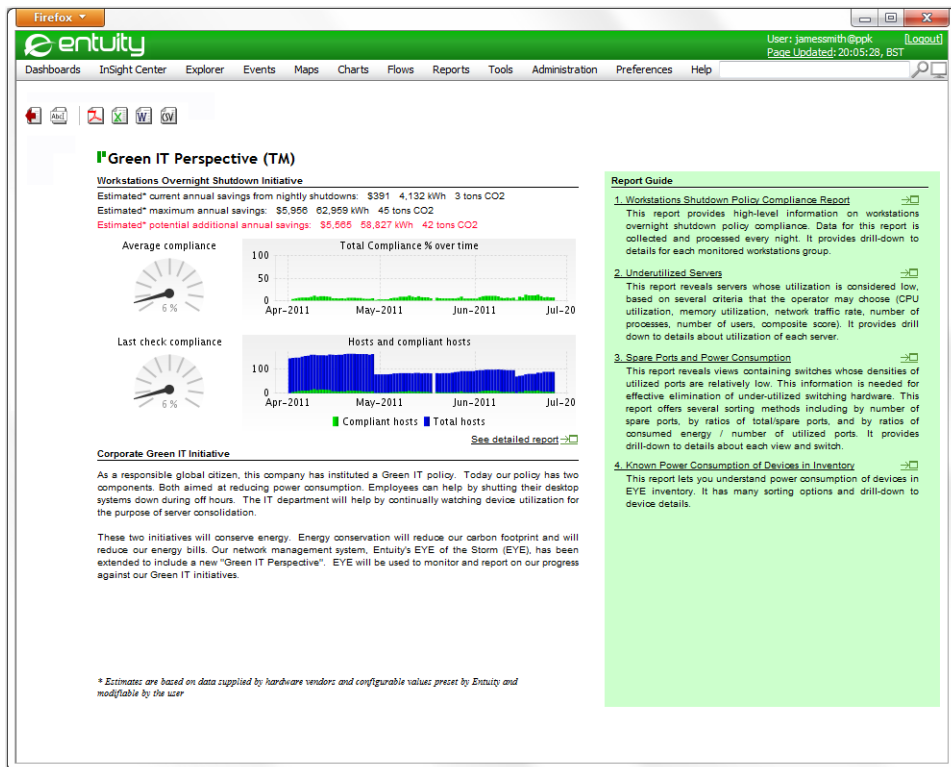


Figure 108 Green IT Perspective Report

Green IT Perspective Report Overview

This dashboard provides an overview of workstation overnight shutdown compliance, with access to a detailed compliance report and other Green IT Perspective reports.

Access to these reports:

- Green IT Perspective Detail report
- Workstations Shutdown Policy Compliance report
- Underutilized Servers report
- Spare Ports and Power Consumption report
- Known Power Consumption of Devices in Inventory report.

Green IT Perspective Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Daily excess kWh for a host</i>	Allows the average wasted power per host per day for hosts that are not shut off when they should be to be set. For a host that should be used for an 8 hour working day there should be 16 hours where it can be shut off. If the average consumption of hosts is 100W (a bit higher than most laptops but lower than desktops) then there would be 1600Wh (1.6kWh) of power associated with those 16 hours.
<i>Cost per kWh of Electricity,</i>	Cost per kilo watt hour of electricity.
<i>Currency symbol</i>	Identifies the currency used to display values, by default \$.
<i>Tons of CO2 per kWh</i>	Tons of CO2 generated per kilo watt hour, by default 0.000718.

Table 285 Green IT Perspective Options

Green IT Perspective Header

Name	Description
<i>Report title</i>	Report title, e.g. Green IT Perspective Dashboard.
<i>Description</i>	Description of the report.
<i>Estimated Current annual savings from nightly shutdown</i>	Provides an indicator of the benefits to your organization of this group's compliance to the overnight shutdown initiative.
<i>Estimated maximum annual savings</i>	The potential savings in currency, kilowatts and CO2 if one hundred percent compliance was achieved.
<i>Estimated potential additional annual savings</i>	The difference between current annual savings and maximum annual savings. The values used to derive the estimated savings values are configurable.

Table 286 Green IT Perspective Report Header

Green IT Perspective Details

Name	Description
<i>Average Compliance</i>	The gauge provides the average compliance over the monitoring period for the organization, as a percentage of the maximum potential compliance.
<i>Total Compliance % over time</i>	Graphs compliance as a percentage of maximum potential compliance over the reporting period.
<i>Last check compliance</i>	The gauge provides a measure of workstation shutdown compliance over the last poll (by default the previous day), as a percentage of the maximum potential compliance.
<i>Hosts and compliant hosts</i>	Graphs total number of hosts and the number of hosts that are compliant over the reporting period.

Table 287 Green IT Perspective Details

Name	Description
<i>Corporate Green IT Initiative</i>	Text that the administrator can enter, for example to explain the corporate green policy.

Table 287 Green IT Perspective Details

Missing Nominal Device Power Consumption Report

Entuity Report

Missing Device Nominal Power Consumption Settings



Printed on: 16 Nov 2008 10:45:28 GMT

View: Regional

Count	Missing	Manufacturer	Model	Device type	sysOid
2	true	cisco	WS-C3550-24-EMI	Ethernet Switch	.1.3.6.1.4.1.9.1.366
2	true	cisco	2503	Router	.1.3.6.1.4.1.9.1.19
2	true	cisco	6500-SSLM	SSL Proxy	.1.3.6.1.4.1.9.1.554
1	true	cisco	WSX5302	Router	.1.3.6.1.4.1.9.1.168
1	true	cisco	7206	Router	.1.3.6.1.4.1.9.1.108
1	true	Microsemi	midspan_24_port_A	1070	.1.3.6.1.4.1.7428.1.1.1.7
1	true	Shiva Corporation	SA3450	VPN	.1.3.6.1.4.1.166.6.110
1	true	IBM	1XX	BladeCenter	.1.3.6.1.4.1.2.6.158.3
1	true	Cisco	WLC4404-100	Wireless Controller	.1.3.6.1.4.1.14179.1.1.4.3
1	true	cisco	1603	Router	.1.3.6.1.4.1.9.1.115
1	true	cisco	801	Router	.1.3.6.1.4.1.9.1.212
1	true	Aruba Networks Inc	Aruba6000-US)	1102	.1.3.6.1.4.1.14823.1.1.4
1	true	cisco	6500-SSL	SSL Proxy	.1.3.6.1.4.1.9.1.610
1	true	cisco	WS-C6506-E	Ethernet Switch	.1.3.6.1.4.1.9.1.282
6	false	Microsoft	x86	Managed Host	.1.3.6.1.4.1.311.1.1.3.1.1
6	false	Microsoft	x86	Managed Host	.1.3.6.1.4.1.311.1.1.3.1.2
4	false	net-snmp	NET-SNMPSOLARIS	Managed Host	.1.3.6.1.4.1.8072.3.2.3
3	false	cisco	WS-C5505	Ethernet Switch	.1.3.6.1.4.1.9.5.34
3	false	Microsoft	x86	Managed Host	.1.3.6.1.4.1.311.1.1.3.1.3
2	false	cisco	WS-C2960-24TT-L	Router	.1.3.6.1.4.1.9.1.716
2	false	cisco	2821	Router	.1.3.6.1.4.1.9.1.577
1	false	cisco	WS-C3560-24TS-E	Router	.1.3.6.1.4.1.9.1.633
1	false	cisco	1900i	Ethernet Switch	.1.3.6.1.4.1.9.5.31
1	false	cisco	C2950XL	Ethernet Switch	.1.3.6.1.4.1.9.1.359
1	false	cisco	2610	Router	.1.3.6.1.4.1.9.1.185
1	false	net-snmp	Net-SNMP Agent 5.1	Managed Host	.1.3.6.1.4.1.8072.3.2.10
1	false	Sun Microsystems	Ultra-5_10	Managed Host	.1.3.6.1.4.1.42.2.1.1
1	false	Netgear	WPN802	Generically Managed	.1.3.6.1.4.1.4526
1	false	cisco	2501	Router	.1.3.6.1.4.1.9.1.17

Total device count	Total missing by device	Percentage missing by device	Total unique sysOids	Total missing by sysOid	Percentage missing by sysOid
51	17	33.3	29	14	48.3

Figure 109 Missing Nominal Device Power Consumption Report

Missing Nominal Device Power Consumption Report

For each supported device there must be configured a power consumption estimate (Entuity includes a default set of estimates). These values are used when calculating annual, maximum and potential saving estimates.

Entuity includes a Missing Device Power report which allows you to identify those device types for which a power consumption definition is missing.

Missing Nominal Device Power Consumption Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 288 Missing Nominal Device Power Consumption Report Options

Missing Nominal Device Power Consumption Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>View</i>	View the report is run against.

Table 289 Missing Nominal Device Power Consumption Report Header

Missing Nominal Device Power Consumption Report Details

Name	Description
<i>Count</i>	Number of device of that type.
<i>Missing</i>	Indicates whether device type has a nominal power consumption setting (false) or not (true).
<i>Manufacturer</i>	Manufacturer of the device.
<i>Model</i>	Device model identifier.
<i>Device Type</i>	Device type as identified by Entuity, e.g. Wireless Controller, Firewall.
<i>sysOid</i>	System OID Entuity uses identify the device type and manage the device.

Missing Nominal Device Power Consumption Report Details

The report also includes a summary table.

Name	Description
<i>Total Device Count</i>	The total number of devices in the report.
<i>Total Missing by Device</i>	Total number of managed devices which do not have a power consumption value.

Table 290 Missing Nominal Device Power Consumption Report Summary

Name	Description
<i>Percentage Missing by Device</i>	Number of devices without a power consumption value as a percentage of the total number of devices managed.
<i>Total Unique SysOid</i>	Total number of unique sysOids used to manage the devices included to the report.
<i>Total Missing by SysOid</i>	Total number of unique sysOids which do not have a power consumption value.
<i>Percentage Missing by SysOid</i>	Number of unique sysOids without a power consumption value as a percentage of the total number of unique sysOids managed.

Table 290 Missing Nominal Device Power Consumption Report Summary

Missing Nominal Module Power Consumption Report

Entuity Report

Missing Module Nominal Power Consumption Settings



Printed on: 16 Nov 2008 10:46:56 GMT

View: Regional

Count	Missing	Manufacturer	Model
5	true	cisco	other
3	true	cisco	wsx5530
3	true	cisco	wsx5234
3	true	cisco	wic-serial-2t
2	true	cisco	cpu-c2821-2ge
2	true	cisco	wic-serial-1t
2	true	cisco	cpu-2500
1	true	cisco	wsx5203
1	true	cisco	wsx5302
1	true	cisco	wsx5225r
1	true	cisco	unknown
1	true	cisco	cpu-wsx5302
1	true	cisco	cpu-800
1	true	cisco	cpu-1600
1	true	cisco	wsx6ksup22ge
1	true	cisco	wsx6148rj45v
1	true	cisco	wsx6408agbic
1	true	cisco	wsSvcSsl1
1	true	cisco	wsx60665lb5k9

Total module count	Total missing by module	Percentage missing by module	Total unique module models	Total missing by model	Percentage missing by model
32	32	100.0	19	19	100.0

Figure 110 Missing Module Nominal Power Consumption Report

Missing Nominal Module Power Consumption Report Overview

For each supported module there must be configured a power consumption estimate (Entuity includes a default set of estimates). These values are used when calculating annual, maximum and potential saving estimates.

Entuity includes a Missing Module Power report which allows you to identify those modules for which a power consumption definition is missing.

Missing Nominal Module Power Consumption Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.

Table 291 Missing Nominal Module Power Consumption Report Options

Name	Description
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.

Table 291 Missing Nominal Module Power Consumption Report Options

Missing Nominal Module Power Consumption Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>View</i>	View the report is run against.

Table 292 Missing Nominal Module Power Consumption Report Header

Missing Nominal Module Power Consumption Report Details

Name	Description
<i>Count</i>	Number of modules of that type Entuity currently manages.
<i>Missing</i>	Indicates whether module has a nominal power consumption setting (false) or not (true).
<i>Manufacturer</i>	Manufacturer of the device.
<i>Model</i>	Device model identifier.

Table 293 Missing Nominal Device Power Consumption Report Details

The report also includes a summary table.

Name	Description
<i>Total Module Count</i>	The total number of modules in the report.
<i>Total Missing by Module</i>	Total number of managed modules which do not have a power consumption value.
<i>Percentage Missing by Module</i>	Number of modules without a power consumption value as a percentage of the total modules managed.
<i>Total unique model types</i>	The total number of module types in the report.
<i>Total Missing by model</i>	Total number of managed module types which do not have a power consumption value.
<i>Percentage Missing by model</i>	Number of models without a power consumption value as a percentage of the total number of models managed.

Table 294 Missing Nominal Module Power Consumption Report Summary

Power Consumption by View Report

Entuity Report

Managed Device Estimated Power Consumption by View



Printed on: 16 Nov 2008 13:54:45 GMT

View: Regional

Sorted by: Device Power Consumption (descending)

Device name	Location	EYE server	Manufacturer Mode	Device power* (W)
lonsoltest01	"System administrators office"	COMPRESSOR	net-snmp NET-	398
lonsoltest07	"System administrators office"	COMPRESSOR	net-snmp NET-	398
lonsoltest08	"System administrators office"	COMPRESSOR	net-snmp NET-	398
sp3	"System administrators office"	COMPRESSOR	net-snmp NET-	398
windbreak	System administrators office	COMPRESSOR	Sun Microsystems Ultra-5_10	398
c2821		COMPRESSOR	cisco 2821	280
e2821		COMPRESSOR	cisco 2821	280
10.44.1.39	testroom	COMPRESSOR	cisco WS-C3560-24TS-E	236
10.44.1.51		COMPRESSOR	Microsoft x86	225
IP129		COMPRESSOR	Microsoft x86	225
LONXPTEST03	Customer Services	COMPRESSOR	Microsoft x86	225
alika		COMPRESSOR	Microsoft x86	225
costner	LondonOffice	COMPRESSOR	Microsoft x86	225
entlonex02		COMPRESSOR	Microsoft x86	225
entloney01		COMPRESSOR	Microsoft x86	225
lon-dev-tst01		COMPRESSOR	Microsoft x86	225
lon-dev-tst02		COMPRESSOR	Microsoft x86	225
lon-dev-tst06		COMPRESSOR	Microsoft x86	225
lon-sup-tst01	Devonshire Square, London	COMPRESSOR	Microsoft x86	225
lonxptest02		COMPRESSOR	Microsoft x86	225
lonxptest04	Customer Services	COMPRESSOR	Microsoft x86	225

Figure 111 Power Consumption by View Report

Power Consumption by View Report Overview

This report identifies device models and the state of their power consumption settings for the selected view.

Power Consumption by View Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort column</i>	From the drop down list you can select a column on which to order the report.

Table 295 Power Consumption by View Report Options

Power Consumption by View Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>View</i>	View the report is run against.
<i>Sorted by</i>	The attribute in the table on which the table is ordered.

Table 296 Power Consumption by View Report Header

Power Consumption by View Report Details

Name	Description
<i>Device Name</i>	Resolved name or IP address of the device.
<i>Location</i>	A text description of the physical location of the device that is contained on the device, e.g. Development Cabinet.
<i>Entuity Server</i>	Name of the Entuity server managing the device.

Table 297 Power Consumption by View Details

Name	Description
<i>Manufacturer</i>	Manufacturer name and is derived by matching the manufacturer number against the first 2500 Private Enterprise Codes compiled by the Internet Assigned Numbers Authority (http://www.iana.org/assignments/enterprise-numbers). Where the manufacturer code is not matched then the first part of the device name is taken, usually this is the manufacturer's name.
<i>Model</i>	Device model.
<i>Device Power(W)</i>	Configured power consumption of the device in watts.

Table 297 Power Consumption by View Details

Power Consumption Overview

Entuity Report

Managed Device Estimated Power Consumption overview



Printed on: 16 Nov 2008 10:50:47 GMT

Sorted by: View Name

View	Device count	Total power* (kW)
ccPortAggregation@New View	0	0.0
Regional	51	6.7
Regional by VTP	5	0.0
rpcCreateView	8	0.3
SSL@New View	3	0.0
VMware ESX Support	1	0.2

Figure 112 Power Consumption Overview Report

Power Consumption Overview Report Overview

This report identifies estimated power consumption by Entuity business view.

Power Consumption Overview Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Sort column</i>	From the drop down list you can select a column on which to order the report.

Table 298 Power Consumption Overview Report Options

Power Consumption by View Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>Sorted by</i>	The attribute in the table on which the table is ordered.

Table 299 Power Consumption Overview Report Header

Power Consumption Overview Report Details

Name	Description
<i>View</i>	Name of the Entuity business view. Each entry is hyperlink that runs the Power Consumption by View Report against the view.
<i>Device count</i>	Number of devices in the view.
<i>Total Power(kW)</i>	Total configured power consumption, in kiloWatts of the devices in the view.

Table 300 Power Consumption Overview Details

Server Activity History Report

Entuity Report

Server Activity History



Printed on: 2 Dec 2012 12:32:29 GMT

View: Regional

Server name: storm

Days covered: 7

Management IP	EYE server	Network traffic rate (Kbytes/S)	CPU%	Used memory (Mbytes)	Processes	Users
10.44.1.67	COMPRESSOR	9	3.0	891	42.5	2.0

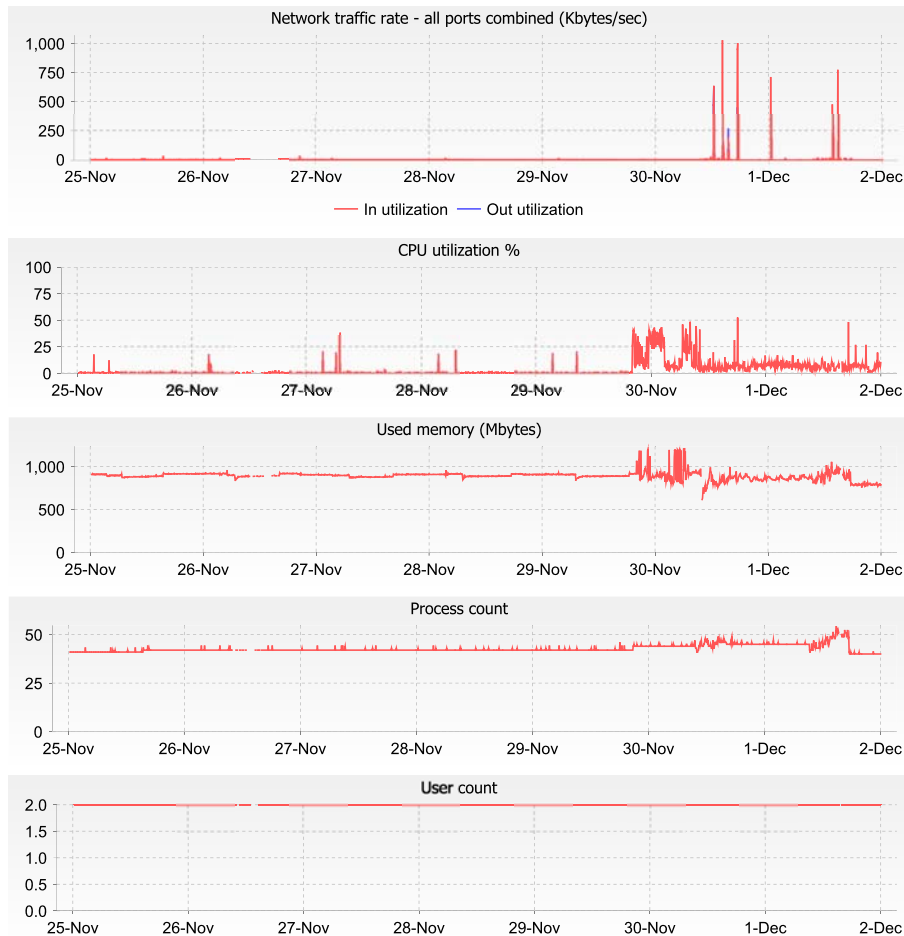


Figure 113 Server Activity History Report

Server Activity History Report Overview

This report provides a detailed breakdown of server performance during the reporting period. It is a useful tool when investigating server utilization.

Server Activity History Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Server Name	From the drop down list you can select a server on which to run the report.
Days to report	Enter the number of days the report should cover, by default seven days.

Table 301 Server Activity History Report Options

Server Activity History Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>View</i>	View the report is run against.
Server Name	The server against which the report is run.
Days covered	Number of days covered by the report, by default seven days.

Table 302 Server Activity History Report Header

Server Activity History Report Details

Name	Description
<i>Management IP</i>	the device's management IP address.
<i>Entuity Server</i>	Name of the Entuity server managing the device.
<i>Network Traffic Rate (Kbytes/S)</i>	Total network traffic for the port, measured as Kbytes per second.
<i>CPU%</i>	CPU utilization as a percentage of the total potential utilization for the server.

Table 303 Server Activity History Table

Name	Description
<i>Used Memory (Mbytes)</i>	Average used memory (Mbytes) over the reporting period.
<i>Processes</i>	Average number of processes running during the reporting period.
<i>Users</i>	Average number of users using the server during the reporting period.

Table 303 Server Activity History Table

Name	Description
<i>Network Traffic Rate</i>	Aggregated network traffic for all ports charted during the reporting period.
<i>CPU%</i>	CPU utilization for the server charted during the reporting period.
<i>Used Memory (Mbytes)</i>	Used memory on the server charted during the reporting period.
<i>Process Count</i>	Number of processes charted during the reporting period.
<i>User Count</i>	Number of users charted during the reporting period.

Table 304 Server Activity History Charts

Spare Ports and Power Consumption Overview Report

Entuity Report

Spare Ports and Estimated Power Consumption overview



Printed on: 26 Nov 2009 15:35:31 GMT

Sorted by: Used Port Percentage

Note that only switches and routers are included in this report

View	Device count	Port count	Used ports	Used port%	Spare ports	Spare port%	Total power* (kW)	Power* per used port (W)
Joyce@New View	12	292	160	54	132	45	3.0	18.7
Regional	45	1039	713	68	326	31	6.2	8.7
admin@New View	17	370	270	72	100	27	2.5	9.1

Figure 114 Spare Ports and Power Consumption Overview Report

Spare Ports and Power Consumption Overview Report Overview

This report provides an overview of spare ports and power consumption statics grouped by view. Only ports for managed switches and routers are included to the report.



The definition of a spare port in Entuity is configurable through entuity.cfg.

Spare Ports and Power Consumption Overview Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Sort column</i>	From the drop down list you can select a column on which to order the report.

Table 305 Spare Ports and Power Consumption Overview Report Options

Spare Ports and Power Consumption Overview Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>Sorted by</i>	The attribute in the table on which the table is ordered.

Table 306 Spare Ports and Power Consumption Overview Report Header

Spare Ports and Power Consumption Overview Report Details

Name	Description
<i>View</i>	Entuity view to which the row's summary data applies.
<i>Device count</i>	Number of managed devices within the view.
<i>Port count</i>	Number of ports within the view.
<i>Used port</i>	Number of used ports within the view.
<i>Used port %</i>	Number of ports within the view Entuity identifies as in use as a percentage of the total number of ports within the view.
<i>Spare port</i>	Number of spare ports within the view.
<i>Spare port %</i>	Number of ports within the view Entuity identifies as spare as a percentage of the total number of ports within the view.
<i>Total power (kW)</i>	Total power usage by managed objects within the view.
<i>Power per used port (W)</i>	Power usage per used port within the view.

Table 307 Spare Ports and Power Consumption Overview Details

Spare Ports by Device Report

Entuity Report

Spare Ports by Device



Printed on: 26 Nov 2009 16:06:00 GMT

View: Regional

Device: c2503

Note that only switches and routers are included in this report

Port description	Days since last activity	Date of last activity	VLAN
[BR0] BR10	56	1-Oct-2009	
[BR0] BR10	56	1-Oct-2009	
[BR0:1] BR10:1	56	1-Oct-2009	
[BR0:2] BR10:2	56	1-Oct-2009	

Figure 115 Spare Ports by Device Report

Spare Ports by Device Report Overview

This report provides an overview of spare ports for a selected device. Only ports for managed switches and routers are included to the report.



The definition of a spare port in Entuity is configurable through entuity.cfg.

Spare Ports by Device Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Device Name	From the drop down list you can select a device on which to run the report.
<i>Sort column</i>	From the drop down list you can select a column on which to order the report.

Table 308 Spare Ports by Device Report Options

Spare Ports by Device Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>View</i>	View the report is run against.
<i>Device</i>	The device against which the report is run.

Table 309 Spare Ports by Device Report Header

Spare Ports by Device Report Details

Name	Description
<i>Port description</i>	Port identity.
<i>Days since last activity</i>	Days since the port was last used.
<i>Date of last activity</i>	Date the port was last used.
<i>VLAN</i>	The VLANs the port is associated with.

Table 310 Spare Ports by Device Details

Spare Ports and Power Consumption by View Report

Entuity Report

Spare Ports and Estimated Power Consumption by View



Printed on: 26 Nov 2012 16:06:50 GMT

View: Regional

Sorted by: Device Name

Note that only switches and routers are included in this report

Device name	Manufacturer	Port count	Spare ports	Spare port%	Device power* (W)	Power* per used port (W)
10.44.1.62	Hewlett Packard	1	0	0.0	30	30.0
10.44.1.62	Hewlett Packard	0	0		30	
10.44.1.9	cisco	26	17	65.4	30	3.3
alcatel-6024.vendor.entuity.lab	Xylan Corp.	26	0	0.0	0	0.0
bottom2960	cisco	26	20	76.9	0	0.0
bottom2960.entuity.local	cisco	26	20	76.9	30	5.0
bottom3550	cisco	26	0	0.0	65	2.5
bottom3550	cisco	26	0	0.0	65	2.5
c2503	cisco	9	4	44.4	40	8.0
c2821	cisco	6	1	16.7	0	0.0
c2821.entuity.local	cisco	6	1	16.7	280	56.0
c3560	cisco	26	24	92.3	281	140.5
c3560.entuity.local	cisco	26	24	92.3	281	140.5
cisco-2651xm.vendor.entuity.lab	cisco	11	9	81.8	0	0.0
cisco-catalyst3524xl.vendor.entuity.lab	cisco	26	2	7.7	75	3.1
cn1700.vendor.entuity.lab	New Oak Communications	7	0	0.0	0	0.0
e2821	cisco	9	0	0.0	0	0.0
e2821.entuity.local	cisco	9	0	0.0	280	31.1
eyepoller.bvt.entuity.lab	cisco	26	4	15.4	30	1.4
foundrynetiron4000.vendor.entuity.lab	Foundry Networks Inc.	41	0	0.0	0	0.0

Figure 116 Spare Ports and Power Consumption by View Report

Spare Ports and Power Consumption by View Overview

This report provides an overview of spare ports and power consumption for devices within the selected view.

Spare Ports and Power Consumption by View Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort column</i>	From the drop down list you can select a column on which to order the report.

Table 311 Spare Ports and Power Consumption by View Report Options

Spare Ports and Power Consumption by View Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>View</i>	View the report is run against.
<i>Sorted by</i>	The attribute in the table on which the table is ordered, e.g. Used Port Percentage.

Table 312 Spare Ports and Power Consumption by View Report Header

Spare Ports and Power Consumption by View Report Details

Name	Description
<i>Device Name</i>	Resolved name or IP address of the device.
<i>Location</i>	A text description of the physical location of the device that is contained on the device, e.g. Development Cabinet.

Table 313 Spare Ports and Power Consumption by View Details

Name	Description
<i>Manufacturer</i>	Manufacturer name and is derived by matching the manufacturer number against the first 2500 Private Enterprise Codes compiled by the Internet Assigned Numbers Authority (http://www.iana.org/assignments/enterprise-numbers). Where the manufacturer code is not matched then the first part of the device name is taken, usually this is the manufacturer's name.
<i>Model</i>	Device model.
<i>Port Count</i>	Number of ports within the view.
<i>Spare Ports</i>	Number of spare ports within the view.
<i>Spare Port %</i>	Number of ports within the view Entuity identifies as spare as a percentage of the total number of ports within the view.
<i>Device Power(W)</i>	Configured power consumption of the device in watts.
<i>Power per Used Port (W)</i>	Configured power consumption per used port for the device.

Table 313 Spare Ports and Power Consumption by View Details

Underutilized Servers Report

Entuity Report

Underutilized Servers



Printed on: 26 Nov 2009 15:47:10 GMT

View: Regional

Sorted by: Average ranking

Days covered: 7

Server name	Management IP	Network traffic rate (Kbytes/S)	CPU%	Used memory (Mbytes)	Procs	Users	Average ranking
10.44.1.55	10.44.1.55	4	-	-	-	-	1.0
fs03.entuity.local	10.44.1.38	-	-	-	-	-	1.8
10.44.1.55	10.44.1.55	-	-	-	-	-	2.6
fs03	10.44.1.38	-	-	-	-	-	3.4
sky	10.44.1.23	-	-	-	-	-	4.2
subzero	10.44.1.10	-	9.0	257	51.0	1.0	6.6
subzero.entuity.local	10.44.1.10	-	9.0	257	51.1	1.0	7.4
lon-dev-tst01.entuity.local	10.44.1.132	74	0.7	680	39.5	1.4	8.0
storm	10.44.1.67	6	2.0	880	41.3	2.0	9.2
storm.entuity.local	10.44.1.67	6	0.3	887	41.1	2.0	9.2
bvt	10.44.1.139	98	17.7	667	86.4	3.2	11.2
lonsoltest07	10.44.1.13	36	13.2	889	72.5	2.4	12.6
lon-dev-tst06.entuity.local	10.44.1.112	32	6.0	1411	54.7	2.0	13.6
ciscomcs7835h2.vendor.entuity.lab	10.66.24.3	-	8.5	1131	1715.7	2445.9	13.8
10.44.1.80	10.44.1.80	19	20.3	1179	72.0	2.0	14.4
lonsolfs02.entuity.local	10.44.1.37	644	33.5	1206	166.0	18.6	16.6
lonsoltest08.entuity.local	10.44.1.17	32	21.8	1455	84.0	2.9	17.0
lonsoltest08	10.44.1.17	31	20.5	1655	84.3	3.0	18.2
lonsolfs02	10.44.1.37	636	39.0	1466	168.1	19.4	18.8
ciscomcs7845h.vendor.entuity.lab	10.66.25.56	877	12.2	2048	4359.0	2596.7	19.0
sunshower.entuity.local	10.44.1.71	69	17.8	2784	272.3	37.4	20.0
sunshower	10.44.1.71	57	14.9	2925	267.0	37.4	20.0

Figure 117 Underutilized Server Reports

Underutilized Servers Report Overview

Optimal utilization of servers is an important part of a successful green policy, the more servers operating at an optimal level the fewer servers that are required.

Underutilized Servers Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Days to report	Enter the number of days the report should cover, by default seven days.
<i>Sort column</i>	From the drop down list you can select a column on which to order the report, e.g. Average ranking.

Table 314 Underutilized Servers Report Options

Underutilized Servers Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Shutdown Compliance by Host.
<i>Printed on</i>	Date and time the report was generated.
<i>View</i>	View the report is run against.
<i>Sorted by</i>	The attribute in the table on which the table is ordered, e.g. Server name, Average ranking.
Days covered	Number of days covered by the report, by default seven days.

Table 315 Underutilized Servers Report Header

Underutilized Servers Report Details

Name	Description
<i>Server name</i>	Resolved name, or IP address, of the server.
<i>Management IP</i>	The device's management IP address.
<i>Network Traffic Rate (Kbytes/S)</i>	Total network traffic for the device, measured as Kbytes per second.
<i>CPU%</i>	CPU utilization as a percentage of the total potential utilization for the server.
<i>Used Memory (Mbytes)</i>	Average used memory (Mbytes) over the reporting period.
<i>Procs</i>	Average number of processes running during the reporting period.
<i>Users</i>	Average number of users using the server during the reporting period.
<i>Average ranking</i>	Indicates the average ranking of the server by percentage underutilization

Table 316 Underutilized Servers Table

11 Inventory Reports

This set of Inventory reports allow you identify, for example, the devices that you are managing, where they are located, their current configuration and any configuration changes. Included to this report set are reports that only useful when you have the relevant module or integration.

Running Inventory Reports

You can run Inventory reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Inventory Reports**. Entuity displays the list of available reports.

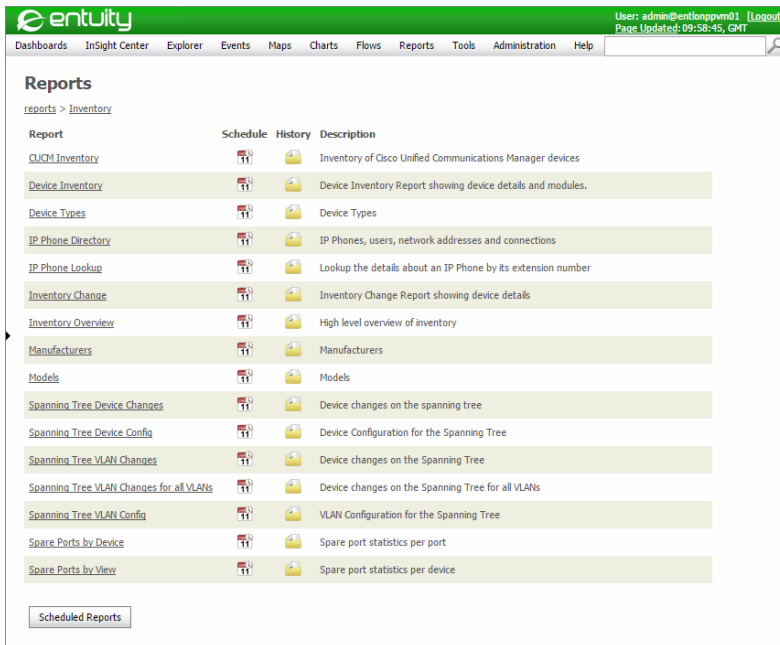


Figure 118 Inventory Reports

CUCM Inventory Report

Entuity Report

Cisco Unified Communications Manager Inventory



Printed on: 25 Nov 2009 17:01:20 GMT

Description: Inventory of CUCM devices

View: Regional

CUCM name	Version	Active / registered phones	Active / registered gateways	CPU %	Total memory (GB)	Used Memory %
ciscomcs7835h2.vendor.entuity.lab	6.1.1.2000-3	N/A / 1170437	N/A / 753296	9	1.96	56
ciscomcs7845h.vendor.entuity.lab	5.0.4.2000	N/A / 757404	N/A / 747681	13	2	100

Figure 119 CUCM Inventory Report

CUCM Inventory Report Overview

This report provides an inventory report on CUCMs in the specified view.

CUCM Inventory Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.

Table 317 CUCM Inventory Report Options

CUCM Inventory Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. CUCM Inventory.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 318 CUCM Inventory Report Header

CUCM Inventory Report Details

Name	Description
<i>CUCM Name</i>	Name of the CUCM.
<i>Version</i>	Last valid CUCM version.
<i>Active Phones</i>	Currently active phones with the CUCM.
<i>Registered Phones</i>	Phones registered with the CUCM.
<i>Active Gateways</i>	The current gateway for the CUCM.
<i>Registered Gateways</i>	Gateways registered to the current CUCM.
<i>Total Memory (GB)</i>	The total memory, in gigabytes, installed to the CUCM.
<i>Used Memory %</i>	The CUCM's memory usage as a percentage of total device memory.

Table 319 CUCM Inventory Report

Device Inventory Report

Entuity Report

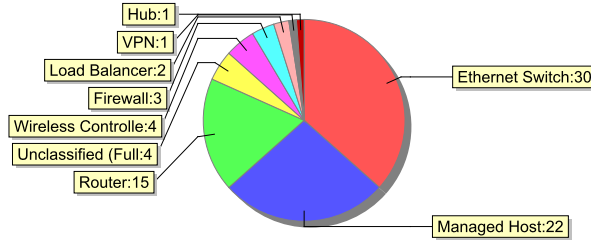
Device Inventory Report



Printed on: 25 Nov 2012 17:03:04 GMT

Description: Device Inventory Report. Includes modules.

View: Regional



Device Type: Wireless Controller

10.66.60.3

Model:	65	Manufact.:	Aruba Networks Inc
Version:	3.1.1.0	Serial #:	A20001381
Mngd. IP:	10.66.60.3	Managed since:	21 Oct 2009 10:05:36 GMT
Location:	Brotman Hall	Server:	COMPRESSOR
Description:	ArubaOS (MODEL: Aruba2400-US), Version 3.1.1.0 (15717)		
Ports:	35		

aruba2400.entuity.lab

Model:	65	Manufact.:	Aruba Networks Inc
Version:	3.1.1.0	Serial #:	A20001381
Mngd. IP:	10.66.60.3	Managed since:	15 Sep 2009 11:08:04 GMT
Location:	Brotman Hall	Server:	wintest03
Description:	ArubaOS (MODEL: Aruba2400-US), Version 3.1.1.0 (15717)		
Ports:	35		

Device Type: VPN

nortel-contivity1600.vendor.entuity.lab

Model:	V04_06.222"	Manufact.:	New Oak Communications Inc.
Version:	n/a	Serial #:	n/a
Mngd. IP:	10.66.23.107	Managed since:	17 Nov 2009 10:42:01 GMT
Location:	"Simulator"	Server:	wintest03
Description:	"CES V04_06.222"		
Ports:	10		

Figure 120 Device Inventory Report

Device Inventory Report Overview

You can launch this report against one or all managed devices.

The report provides a breakdown by device on the selected Entuity server(s), specifically the:

- pie chart graphs the top ten device types of managed devices (when more than one device is reported on)
- sections in the report are grouped by device type.

Optionally you can include device modules.

Device Inventory Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one or All Devices to run the report against.
<i>Show Modules</i>	Select <i>Show Modules</i> to include device modules to the report.

Table 320 Device Inventory Report Options

Device Inventory Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Inventory.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 321 Device Inventory Report Header

Device Inventory Report Details

Name	Description
Device Type	Device as identified by Entuity, e.g. Wireless Controller, VPN, Load Balancer.
<i>Name</i>	System name or where not available the IP address.
<i>Model</i>	The device model.
<i>Version</i>	The device version number.

Table 322 Device Inventory Summary

Name	Description
<i>Mngd. IP</i>	IP address Entuity uses to poll the device.
<i>Location</i>	Device SysLocation, or where not available it is left blank.
<i>Description</i>	System description, which for a Cisco device is a parsed sysDescr with model, version and serial number.
<i>Ports</i>	Number of ports on the device.
<i>Manufacturer</i>	Manufacturer name is derived by matching the manufacturer number against the first 2500 Private Enterprise Codes compiled by the Internet Assigned Numbers Authority (http://www.iana.org/assignments/enterprise-numbers). Where the manufacturer code is not matched then the first part of the device name is taken, usually this is the manufacturer's name.
<i>Serial #</i>	Device serial number.
<i>Managed Since</i>	Data and time the device was taken under management by the Entuity server.
<i>Server</i>	Entuity server managing the device.

Table 322 Device Inventory Summary

Modules table is only displayed when the device has modules and the Report Options is set to show modules.

Name	Description
<i>Module Description</i>	Description of the module.
<i>Slot</i>	Module slot number.
<i>Model</i>	Module model number.
<i>Serial #</i>	Module serial number.
<i>SW Version</i>	Module software version number.

Table 323 Device Module Inventory

Device Type Report

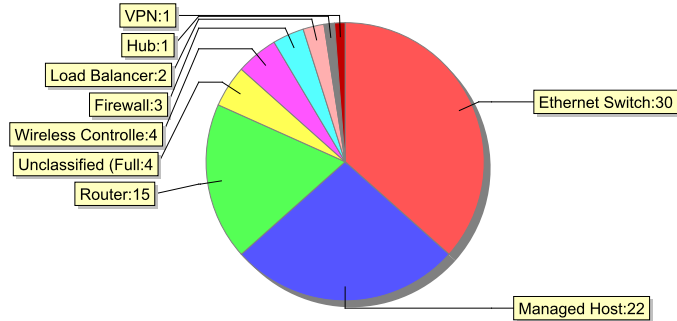
Entuity Report

Device Types

Printed on: 25 Nov 2009 17:03:51 GMT

Description: All current device types. Graph shows top 10 number of device types.

View: Regional



Device Type	Count
Ethernet Switch	30
Firewall	3
Hub	1
Load Balancer	2
Managed Host	22
Router	15
Unclassified (Full)	4
VPN	1
Wireless Controller	4

Figure 121 Device Type Report

Device Types Report Overview

The device types inventory report provides a breakdown by type of the managed devices on the selected Entuity server(s).

Device Types Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.

Table 324 IP Phone Directory Report Options

Device Types Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Types.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 325 Device Types Report Header

Device Type Report Details

The device types inventory report provides a breakdown by type of the managed devices on the selected Entuity server(s), specifically the

- pie chart graphs the top ten types of managed devices
- each row in the table lists a device type and the number of those devices managed by Entuity.

IP Phone Directory Report

Entuity Report

IP Phone Directory



Printed on: 7 Oct 2012 14:46:01 BST

Description: Directory of IP Phones by Last User

View: Regional

Last user	Extension	IP address	MAC address	Switch / Port	CUCM
	82159001	10.192.67.46		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159004	10.192.66.61	00:17:95:92:df:a0	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159005	10.192.67.39		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159007	10.192.67.141		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159011	10.192.66.74		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159012	10.192.66.135		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159013	10.192.67.248		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159015	10.192.67.111		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159017	10.192.67.21		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159018	10.192.67.217	00:17:e0:65:b7:6a	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159019	10.192.66.157		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159020	10.192.67.41	00:17:e0:15:2d:d8	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159021	10.192.66.221		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159022	10.192.67.118	00:17:e0:3f:a9:2f	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159024	10.192.66.225		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159026	10.192.67.230		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159028	10.192.67.74		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159030	10.192.66.205		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159033	10.192.67.82	00:17:e0:65:b9:08	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159034	10.192.67.249		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159035	10.192.66.251	00:17:95:bd:d6:d4	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159036	10.9.248.99	00:17:95:cd:e0:16	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159039	10.192.67.81	00:17:e0:14:19:8f	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159040	10.192.66.116		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159041	10.192.67.70		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159044	10.192.67.81	00:17:e0:14:19:8f	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159045	10.192.66.128	00:17:e0:15:2b:d3	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159046	10.192.66.246		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159048	10.192.66.171	00:17:95:b1:2f:fe	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159050	10.192.66.151		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159051	10.192.66.155		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159052	10.192.67.209	00:17:e0:15:30:cd	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159053	10.192.66.146		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159054	10.192.66.119	00:17:95:cd:de:ba	N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159056	10.192.66.215		N/A	ciscocomcs7845h.ve ndor.entuity.lab
	82159057	10.192.67.127	00:17:95:6d:a7:a6	N/A	ciscocomcs7845h.ve ndor.entuity.lab

Figure 122 IP Phone Directory Report

IP Phone Directory Report Overview

The IP Phone Directory report allows viewing of CUCM phone extension details, ordered by extension number.

IP Phone Directory Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.

Table 326 IP Phone Directory Report Options

IP Phone Directory Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP Phone Directory.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 327 IP Phone Directory Report Header

IP Phone Directory Report Details

Name	Description
<i>Last User</i>	Last registered user.
<i>Extension</i>	Extension number.
<i>IP Address</i>	The last known IP address of the phone.
<i>MAC address</i>	Physical (MAC) address of the phone.
<i>Switch / Port</i>	IP address of the CUCM switch / name of the port.
<i>CUCM</i>	Name of the CUCM.

Table 328 IP Phone Directory Report

IP Phone Lookup Report

Entuity Report

IP Phone Details



Printed on: 25 Nov 2009 17:06:51 GMT

Description: Details of an IP Phone by extension number

View: Regional

Last user	Extension	IP address	MAC address	Switch / Port	CUCM
	82159001	10.192.67.46		N/A	ciscomcs7845h.ve ndor.entuity.lab

Figure 123 IP Phone Lookup Report

IP Phone Lookup Report Overview

You can use this report to find details on an IP Phone extension number.

IP Phone Lookup Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
IP Phone Extension Number	Enter the extension number on which you want to search.

Table 329 IP Phone Lookup Report Options

IP Phone Lookup Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Routing Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 330 IP Phone Lookup Report Header

IP Phone Lookup Report Details

Name	Description
<i>Last User</i>	Last registered user.
<i>Extension</i>	Extension number.
<i>IP Address</i>	The last known IP address of the phone.
<i>MAC address</i>	Physical (MAC) address of the phone.
<i>Switch / Port</i>	IP address of the CUCM switch / name of the port.
<i>CUCM</i>	Name of the CUCM.

Table 331 IP Phone Lookup Report

Inventory Change Report

Entuity Report

Inventory Changes by Type



Printed on: 26 May 2012 09:46:56 BST

Description: Comparison of inventory changes between Thu May 24 00:00:00 BST 2012 and Sat May 26 00:00:00 BST 2012

View: My Network

Start: Thu May 24 00:00:00 BST 2012

End: Sat May 26 00:00:00 BST 2012

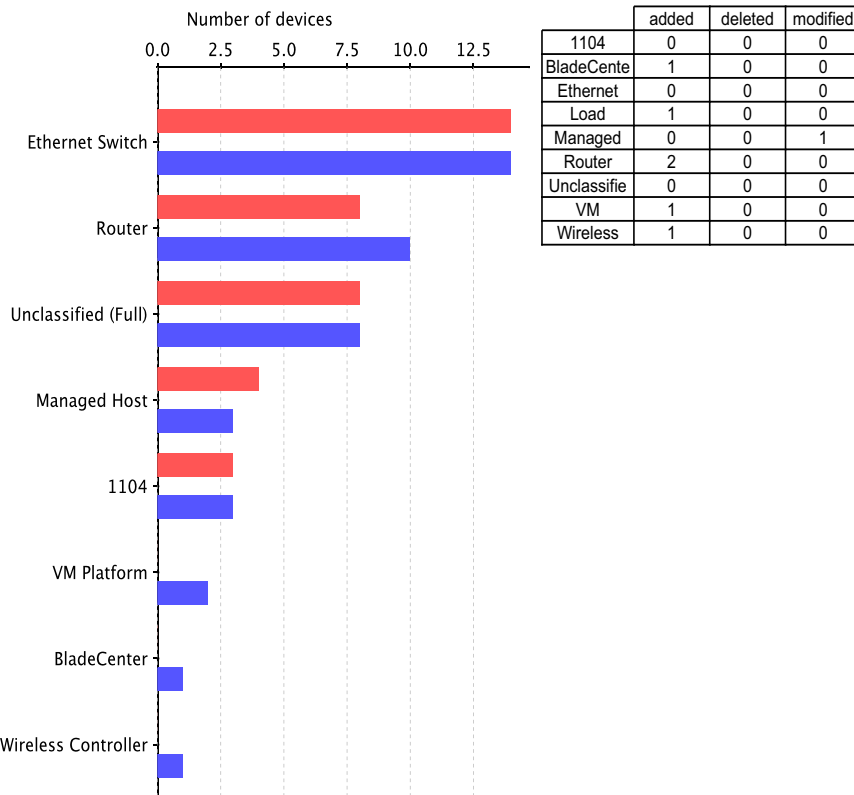


Figure 124 Inventory Change Report

Inventory Change Report Overview

Entuity provides device inventory change reports that use inventory snapshots of both root views and sub-views to identify changes in the managed network. You can run or schedule inventory snapshots through **Administration > Inventory > Inventory Snapshots**.

Inventory Change Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against. This determines the available snapshots.
Show changes only	Select to only include changes to the managed inventory between the two inventory snapshots.
Start Inventory	Select the starting inventory snapshot.
End Inventory	Select the second inventory snapshot for which the report identifies changes.
Breakdown by	Select by which attribute, <i>Manufacturer, Model, Type</i> , you want to order the report.

Table 332 Inventory Change Report Options

Inventory Change Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Inventory Change.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
Start	Time of the first inventory snapshot.
End	Time of the second inventory snapshot.

Table 333 Inventory Change Report Header

Inventory Change Report Summary

The report breakdown can be by Manufacturer, Model or Type. The first page provides an overview of the network inventory, with the summary chart and table providing a breakdown by type of the number of additions, deletions and modifications.

Inventory Change Report Summary Tables

The report breakdown can be by Manufacturer, Model or Type. The summary tables provide precis of each managed object, including its modification state which is also a hyperlink to the inventory change details.

The row background color indicates the type of change:

- white, no change
- green, an addition
- amber, a modification
- red, a deletion.

Name	Description
<i>Device Type</i>	Name of the device type, VPN, Load Balancer, Managed Host. When reporting on multiple device types, this report groups devices by type alphabetically ordering these device type groups.
<i>Device Name</i>	Resolved device name or the IP address.
<i>IP Address</i>	The device's management IP address.
<i>System Name</i>	Device description.
<i>Mgmt Level</i>	Indicates the level of Entuity management that the device is under, e.g. Full, Basic, Ping Only .
<i>Certified</i>	When set to Yes , indicates the device is fully certified by Entuity, Unknown the device dataset is derived by Entuity (from <code>proliferate -g</code>).
<i>Modules</i>	Number of modules associated with the device.
<i>Ports</i>	Number of ports associated with the device.
<i>Modification</i>	A hyperlink to the inventory change breakdown detail table for the object.

Table 334 Inventory Change Summary

Inventory Change Details

Tables provide a device by device breakdown of the comparison properties start and end values. The column background color indicates the type of change:

- white, no change
- green, an addition
- amber, a modification
- red, deletion.

Name	Description
<i>Device Name</i>	Resolved device name or the IP address.
<i>IP Address</i>	The device's management IP address.
<i>Location</i>	Derived from <code>sysLocation</code> .
<i>Description</i>	Device description.
<i>Type</i>	Name of the device type, VPN, Load Balancer, Managed Host. When reporting on multiple device types, this report groups devices by type alphabetically ordering these device type groups.

Table 335 Inventory Change Details

Name	Description
<i>Manufacturer</i>	Device manufacturer.
Model	Device model.
Serial No	Manufacturer's serial number for the managed object, i.e. device or module.
Version	Version of the software installed to the managed object, i.e. device or module.
First Seen	Date and time the device was first taken under management.
Server on	Name of the Entuity server. When reporting on multiple servers, this report groups inventory by the managing Entuity server.
<i>Port count</i>	Number of ports associated with the device.
<i>Module count</i>	Number of modules associated with the device.

Table 335 Inventory Change Details

Inventory Overview Report

Entuity Report

Inventory Overview



Printed on: 25 Nov 2012 17:04:48 GMT

Description: Overview of all devices in the inventory

View: Regional

Server: COMPRESSOR

Ethernet Switch

Device Name	IPAddress	System Name	Mgmt Level	Certified	Module	Ports	Hosts
10.44.1.62	10.44.1.62	HPCOL1	Full (No)	Yes			
bottom2960	10.44.1.41	bottom2960.entuity.com	Full	Yes	1	28	0
bottom3550	10.44.1.12	bottom3550	Full	Yes	1	28	0
c3560	10.44.1.39	c3560.entuity.com	Full	Yes	1	28	0
lonsw01	10.44.1.5	lonsw01.entuity.local	Full	Yes	3	61	40
lonsw02	10.44.1.6	gale	Full	Yes	2	25	28
lonsw03	10.44.1.7	lonsw03.entuity.local	Full	Yes	4	62	38
s1912	10.44.1.43	s1912	Full	Yes	0	28	0
top2960	10.44.1.40	top2960.entuity.com	Full	Yes	1	34	2

Load Balancer

Device Name	IPAddress	System Name	Mgmt Level	Certified	Module	Ports	Hosts
10.66.13.22	10.66.13.22	bigip01.pct.entuity.com	Full	Yes	0	16	0

Managed Host

Device Name	IPAddress	System Name	Mgmt Level	Certified	Module	Ports	Hosts
10.44.1.55	10.44.1.55	IP129	Full (Mgmt)	Yes			
bvt	10.44.1.139	bvt.entuity.local	Full	Yes	0	3	0
fs03	10.44.1.38	fs03	Full	Yes	0	2	0
lonsofs02	10.44.1.37	lonsofs02	Full	Yes	0	3	0
lonsofstest07	10.44.1.13	lonsofstest07	Full	Yes	0	2	0
lonsofstest08	10.44.1.17	lonsofstest08	Full	Yes	0	2	0
sky	10.44.1.23	sky	Full	Yes	0	3	0
storm	10.44.1.67	STORM	Full	Yes	0	4	0
subzero	10.44.1.10	subzero.entuity.local	Full	Yes	0	6	0
sunshower	10.44.1.71	sunshower	Full	Yes	0	8	0

Router

Device Name	IPAddress	System Name	Mgmt Level	Certified	Module	Ports	Hosts
c2503		c2503	Full	Yes	0	11	0
c2821	10.44.1.58	c2821.entuity.com	Full	Yes	4	218	0
e2821	10.44.1.59	e2821.entuity.com	Full	Yes	3	22	0
ioalana	10.44.1.146	COL_GDC_7513_2	Full	Yes	16	119	0
new2610	10.44.1.36	new2610	Full	Yes	3	7	0
r2610	10.44.1.35	r2610.entuity.local	Full	Yes	3	7	0
r801	192.168.244.1	r801	Full	No	1	5	0
sunrise	10.44.1.2	sunrise	Full	Yes	1	5	0

Figure 125 Inventory Overview Report

Inventory Overview Report Overview

Entuity provides device inventory reports predicated around their Entuity management status. For each device type the report includes a separate table that identifies:

Inventory Overview Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.

Table 336 Inventory Overview Report Options

Inventory Overview Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Inventory Overview.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 337 Inventory Overview Report Header

Inventory Overview Report Details

Name	Description
<i>Server</i>	Name of the Entuity server. When reporting on multiple servers, this report groups inventory by the managing Entuity server.
<i>Device Type</i>	Name of the device type, VPN, Load Balancer, Managed Host. When reporting on multiple device types, this report groups devices by type alphabetically ordering these device type groups.
<i>Device Name</i>	Resolved device name or the IP address.
<i>IP Address</i>	The device's management IP address.
<i>System Name</i>	Device description.
<i>Mgmt Level</i>	Indicates the level of Entuity management that the device is under, e.g. Full, Basic, Ping Only .

Table 338 Inventory Overview Summary

Name	Description
<i>Certified</i>	When set to Yes , indicates the device is fully certified by Entuity, Unknown the device dataset is derived by Entuity (from <code>proliferate -g</code>).
<i>Modules.</i>	Number of modules associated with the device.
<i>Ports</i>	Number of ports associated with the device.
<i>Host</i>	Number of hosts associated with the device.

Table 338 Inventory Overview Summary

Manufacturers Report

Entuity Report

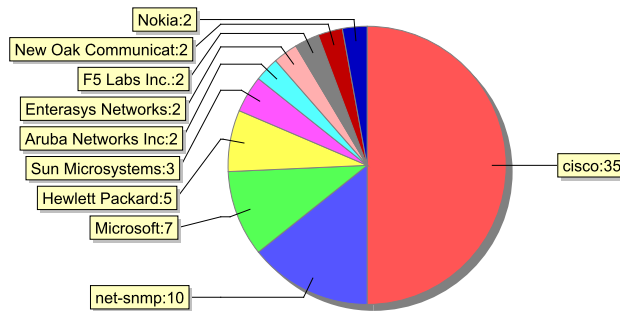
Manufacturers



Printed on: 25 Nov 2009 17:07:52 GMT

Description: All current manufacturers. Graph shows top 10 number of device types across all views

View: Regional



Manufacturer	Count
Aruba Networks Inc	2
cisco	35
Codex	1
Crossbeam Systems Inc.	1
Dell Computer Corporation	1
Enterasys Networks	2
Extreme Networks	1
F5 Labs Inc.	2
Foundry Networks Inc.	1
Hewlett Packard	5
Microsoft	7
net-snmp	10
New Oak Communications Inc.	2
Nokia	2
Oki Data Corporation	1
RICOH Co. Ltd.	2
Riverstone Networks	1
Sun Microsystems	3
Trapeze Networks Inc	2
Xylan Corp.	1

Figure 126 Manufacturers Report

Manufacturers Report Overview

The manufacturers types inventory report provides a breakdown by manufacturer of the managed devices on the selected Entuity server(s) within the set view.

Manufacturers Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.

Table 339 Manufacturers Report Options

Manufacturers Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Manufacturers.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 340 Manufacturers Report Header

Manufacturers Report Details

The manufacturers types inventory report provides a breakdown by manufacturer of the managed devices on the selected Entuity server(s), specifically the

- pie chart graphs the top ten manufacturers of managed devices
- each row in the table lists a manufacturer and the number of its devices managed by Entuity.

Models Report

Entity Report

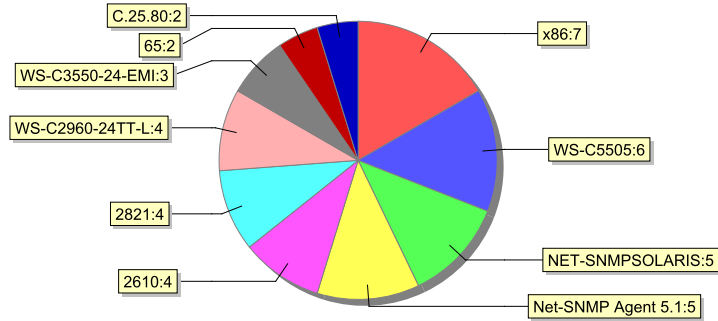
Models



Printed on: 25 Nov 2009 17:08:34 GMT

Description: All current device models. Graph shows top 10 number of device types across all views

View: Regional



Models	Count
15101	1
1900i	1
2503	1
2610	4
2651XM	1
2821	4
3524 XL	1
6450	1
65	2
6G302-06	1
7513	1
801	1
A.03.15	1
B61e	1
Big IP Optimus	1
Big IP VIPRION	1
C.25.80	2
C1500/615C	2
C25	1
C2950XL	1
HPJ2355A	1
Hardware:7835H2	1
Hardware:7845H	1

Figure 127 Models Report

Models Report Overview

The models report provides a breakdown by model of the managed devices on the selected Entuity server(s) within the set view.

Models Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.

Table 341 Models Report Options

Models Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Models.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 342 Manufacturers Report Header

Models Report Details

The models inventory report provides a breakdown by model of the managed devices on the selected Entuity server(s), specifically the

- pie chart graphs the top ten models of managed devices
- each row in the table lists a model and the number of its devices managed by Entuity.

Spanning Tree Device Changes Report

Entuity Report

Spanning Tree Device Changes



Printed on: 28 Nov 2009 20:45:25 GMT
 Description: Additions, Deletions and changes to the spanning tree devices
Start Date: Sunday 22 November 2009
End Date: Saturday 28 November 2009
View: Regional

STP Vlan Setting Changes

VLAN	Change Count	Max Age	Hello Time	Forward Delay	Hold Time	Root Switch -> Port	Cost
Old Value :							
1	539	20	2	15	1	lonsw03 -> [2/2] TRUNK to lonsw03	19
New Value :							
1	561	20	2	15	1	lonsw03 -> [2/2] TRUNK to lonsw03	19
Deleted :							
101	2	20	2	15	1	lonsw03 -> [2/2] TRUNK to lonsw03	19

Vlan Connectivity Changes

VLAN 101

Cost	Port	State	Connected to	State
Deleted :				
19	[2/1] TRUNK to lonsw02	blocking	lonsw02 -> [2/1] TRUNK to lonsw01	forwarding
Deleted :				
19	[2/2] TRUNK to lonsw03	forwarding	lonsw03 -> [2/2] TRUNK to lonsw01	forwarding

Figure 128 Spanning Tree Device Changes Report

Spanning Tree Device Changes Report Overview

This report allows you to identify changes in the selected device's VTP and STP settings between the two sample periods. Data for each sample was collected by **Stpman** and **Vtpman**. The comparison is between the entered start and end dates. You can select any sample from the last seven days.

Spanning Tree Device Changes Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server to run the report against.

Table 343 Spanning Tree Device Changes Report Options

Name	Description
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.
<i>Please select a start date</i>	Enter the start date of the reporting period.
<i>Please select an end date</i>	Enter the end date of the reporting period.

Table 343 Spanning Tree Device Changes Report Options

Spanning Tree Device Changes Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Spanning Tree Device Changes.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Start Date</i>	The date the first set of sample data was polled.
<i>End date</i>	The date the second set of sample data was polled.

Table 344 Spanning Tree Device Changes Header

Spanning Tree Device Changes Report Details

This table lists STP VLAN changes, clearly identifying old, new and deleted settings,

Name	Description
<i>VLAN</i>	The VLAN name
<i>Change Count</i>	The number of Root Switch changes. This is a running total.
<i>Max Age</i>	The length of time, in seconds, that the switch stores a BPDU before discarding it.
<i>Hello Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Forward Delay</i>	The time, in seconds, the switch spends in the Listening and Learning states.
<i>Hold Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.

Table 345 STP VLAN Settings

Name	Description
<i>Root Switch > Port</i>	The switch acting as the centre of the VLAN. Other switches use this as the centre of the network when calculating a set of root and designated ports during the initial convergence to create a loop free network. is the device's designated root port. For the root switch this is set to NULL as the root switch does not have a designated root port.
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.

Table 345 STP VLAN Settings

Name	Description
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.
<i>Port</i>	The port address connected to another device
<i>State</i>	The local device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Connected to</i>	The address of the host and port
<i>State</i>	The target device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.

Table 346 STP Connectivity Settings

Spanning Tree Device Configuration Report

Entuity Report

Spanning Tree Device Config



Printed on: Sat Nov 28 21:04:30 GMT 2009

Description: Spanning Tree configuration information for selected device and date

View: Regional

COMPRESSOR

lonsw03

Sample Date: Wednesday 25 November 2009

VTP Mode: Server

VTP Domain Name: wipeout

VTP Pruning: Disabled

STP Anomalies	VTP Anomalies
SNMP Poll Failure	No VTP anomalies
SNMP Poll Failure	
Connection to: 10.44.1.8	

VLAN Settings

VLAN	Change Count	Max Age	Hello Time	Forward Delay	Hold Time	Root Switch -> Port	Cost
1	1164	20	2	15	1	lonsw03 -> None	0
4	13	20	2	15	1	lonsw03 -> None	0
55	13	20	2	15	1	lonsw03 -> None	0
57	13	20	2	15	1	lonsw03 -> None	0
99	13	20	2	15	1	lonsw03 -> None	0
101	13	20	2	15	1	lonsw03 -> None	0
145	13	20	2	15	1	lonsw03 -> None	0
1003	0	0	0	0	0		0
1005	0	0	0	0	0		0

Connectivity Information

VLAN 1

Cost	Port	State	Connected to	State
19	[2/1] TRUNK to lonsw02	forwarding	lonsw02 -> [2/2] TRUNK to lonsw03	forwarding
19	[2/2] TRUNK to lonsw01	forwarding	lonsw01 -> [2/2] TRUNK to lonsw03	forwarding
19	[2/8] DEVMAN [LW]	forwarding	bottom2960 -> [Fa0/1] FastEthernet0/1	forwarding

VLAN 4

Cost	Port	State	Connected to	State
19	[2/1] TRUNK to lonsw02	forwarding	lonsw02 -> [2/2] TRUNK to lonsw03	forwarding
19	[2/2] TRUNK to lonsw01	forwarding	lonsw01 -> [2/2] TRUNK to lonsw03	forwarding

VLAN 55

Cost	Port	State	Connected to	State
19	[2/1] TRUNK to lonsw02	forwarding	lonsw02 -> [2/2] TRUNK to lonsw03	forwarding
19	[2/2] TRUNK to lonsw01	forwarding	lonsw01 -> [2/2] TRUNK to lonsw03	forwarding

Figure 129 Spanning Tree Device Configuration Report

Spanning Tree Device Configuration Report Overview

This report details STP configuration for the selected device. It shows VTP settings where appropriate, SNMP errors. Configuration for the device is given and then configuration details on the ports used to connect to each VLAN.

The report is divided into three sections, header, VLAN and then repeating tables detailing any VLAN connections.

Spanning Tree Device Configuration Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.
<i>Please select a start date</i>	Enter the start date of the reporting period.
<i>Show Anomalies</i>	Select <i>Show Anomalies</i> to include VLAN and STP anomalies to the report.

Table 347 Spanning Tree Device Configuration Report Options

Spanning Tree Device Configuration Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Spanning Tree Device Configuration.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Server</i>	Entuity server managing the device.

Table 348 Spanning Tree Device Configuration Header

Spanning Tree Device Configuration Report Details

Name	Description
<i>Device</i>	Name of the device reported on.

Table 349 STP VLAN Settings

Name	Description
Sample Date	is the date the device configuration data refers to. Device STP data is collected daily by stpman.
VTP Domain Name	It is the domain name. When it is blank then the domain is NULL.
VTP Mode	It can be Server, Client or Transparent. The mode the switch is configured to determines how it sources and handles VTP messages.
VTP Pruning	VTP pruning status can be: <ul style="list-style-type: none"> ■ enabled so the device only receives broadcast frames for VLANs to which it has ports assigned. ■ disabled so the device receives all broadcast frames and forwards them through all of its trunk ports.
STP Anomalies	Lists the STP anomalies recorded for this date.
VTP Anomalies	Lists the VTP anomalies recorded for this date.
VLAN	The VLAN name
<i>Change Count</i>	The number of Root Switch changes. This is a running total.
<i>Max Age</i>	The length of time, in seconds, that the switch stores a BPDU before discarding it.
<i>Hello Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Forward Delay</i>	The time, in seconds, the switch spends in the Listening and Learning states.
<i>Hold Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Root Switch > Port</i>	The switch acting as the centre of the VLAN. Other switches use this as the centre of the network when calculating a set of root and designated ports during the initial convergence to create a loop free network. is the device's designated root port. For the root switch this is set to NULL as the root switch does not have a designated root port.
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.

Table 349 STP VLAN Settings

Name	Description
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.
<i>Port</i>	The port address connected to another device
<i>State</i>	The local device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Connected to</i>	The address of the host and port

Table 350 STP VLAN Settings

Name	Description
<i>State</i>	The target device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.

Table 350 STP VLAN Settings

Spanning Tree VLAN Changes Report

Entuity Report

Spanning Tree VLAN Changes



Printed on: 28 Nov 2009 21:47:11 GMT
 Description: Additions, Deletions and changes to the spanning tree
Start Date: Sunday 22 November 2009
End Date: Saturday 28 November 2009
View: Regional

STP Connectivity Changes

From	State	Connected to	State	Cost
Deleted :				
lonsw01: [2/1] TRUNK to lonsw02	blocking	lonsw02: [2/1] TRUNK to lonsw01	forwarding	19
Deleted :				
lonsw01: [2/2] TRUNK to lonsw03	forwarding	lonsw03: [2/2] TRUNK to lonsw01	forwarding	19
Deleted :				
lonsw02: [2/1] TRUNK to lonsw01	forwarding	lonsw01: [2/1] TRUNK to lonsw02	blocking	19
Deleted :				
lonsw03: [2/2] TRUNK to lonsw01	forwarding	lonsw01: [2/2] TRUNK to lonsw03	forwarding	19

STP Setting Changes

Switch	Root Switch -> Port	Root Cost	Change Count	Max Age	Hello Time	Hold Time	Forward Delay
Deleted :							
lonsw01	lonsw03 -> [2/2] TRUNK to lonsw01	19	2	20.0	2.0	1.0	15.0

Figure 130 Spanning Tree VLAN Changes Report

Spanning Tree VLAN Changes Report Overview

This report allows you to identify changes in the selected VLAN's VTP and STP settings between the two sample periods. Data for each sample was collected by `Stpman` and `Vtppman`. The comparison is between the entered start and end dates. You can select any sample from the last seven days.

Spanning Tree VLAN Changes Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.

Table 351 Spanning Tree VLAN Changes Report Options

Name	Description
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a VLAN</i>	From the drop down list you can select one VLAN to run the report against.
<i>Please select a start date</i>	Enter the start date of the reporting period.
<i>Please select an end date</i>	Enter the end date of the reporting period.

Table 351 Spanning Tree VLAN Changes Report Options

Spanning Tree VLAN Changes Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Routing Summary.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>VLAN</i>	VLANs are selected through Report Options.
<i>Start date</i>	Start date of the reporting period.
<i>End date</i>	End date of the reporting period.

Table 352 Spanning Tree VLAN Changes Header

Spanning Tree VLAN Changes Report Details

This report includes two tables; the first lists STP connectivity changes, the second VLAN changes, both clearly identify old, new and deleted settings.

Name	Description
<i>From</i>	The device and port address connected to another device
<i>State</i>	The local device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Connected to</i>	The address of the host and port
<i>State</i>	The target device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.

Table 353 Spanning Tree VLAN Settings

This table lists STP VLAN changes, clearly identifying old, new and deleted settings.

Name	Description
<i>Switch</i>	Switch resolved name or IP address.
<i>Root Switch > Port</i>	The switch acting as the center of the VLAN. Other switches use this as the center of the network when calculating a set of root and designated ports during the initial convergence to create a loop free network. is the device's designated root port. For the root switch this is set to NULL as the root switch does not have a designated root port.
<i>Root Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.
<i>Change Count</i>	The number of Root Switch changes. This is a running total.
<i>Max Age</i>	The length of time, in seconds, that the switch stores a BPDU before discarding it.
<i>Forward Delay</i>	The time, in seconds, the switch spends in the Listening and Learning states.
<i>Hello Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Hold Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.

Table 354 Spanning Tree VLAN Settings

Spanning Tree VLAN Changes for all VLANs Report

Entuity Report

Spanning Tree VLAN Changes for all VLANs



Printed on: 28 Jan 2013 15:59:35 GMT

Description: Additions, Deletions and changes to the spanning tree for all VLANs

Start Date: Tuesday 22 January 2013

End Date: Monday 28 January 2013

View: My Network

VLAN : 1000

STP Connectivity Changes

No Changes

STP Setting Changes

No Changes

VLAN wipeout: 145

STP Connectivity Changes

From	State	Connected to	State	Cost
Deleted :				
lonsw01: [2/1] TRUNK to lonsw02	blocking	lonsw02: [2/1] TRUNK to lonsw01	forwarding	19
Deleted :				
lonsw01: [2/2] TRUNK to lonsw03	forwarding	lonsw03: [2/2] TRUNK to lonsw01	forwarding	19
Deleted :				
lonsw02: [2/1] TRUNK to lonsw01	forwarding	lonsw01: [2/1] TRUNK to lonsw02	blocking	19
Deleted :				
lonsw02: [2/2] TRUNK to lonsw03	forwarding	lonsw03: [2/1] TRUNK to lonsw02	forwarding	19
Deleted :				
lonsw03: [2/1] TRUNK to lonsw02	forwarding	lonsw02: [2/2] TRUNK to lonsw03	forwarding	19
Deleted :				
lonsw03: [2/2] TRUNK to lonsw01	forwarding	lonsw01: [2/2] TRUNK to lonsw03	forwarding	19

STP Setting Changes

Switch	Root Switch -> Port	Root Cost	Change Count	Max Age	Hello Time	Hold Time	Forward Delay
Deleted :							
lonsw01	lonsw03 -> [2/2] TRUNK to lonsw01	19	0	20.0	2.0	1.0	15.0
Deleted :							
lonsw02	lonsw03 -> [2/3] TRUNK to lonsw04	19	2	20.0	2.0	1.0	15.0

VLAN wipeout: 1002

STP Connectivity Changes

No Changes

STP Setting Changes

No Changes

Figure 131 Spanning Tree VLAN Changes for all VLANs Report

Spanning Tree VLAN Changes for all VLANs Report Overview

This report allows you to identify changes in VTP and STP settings between two sample periods, for all VLANs in the selected view. Data for each sample was collected by `Stpman` and `Vtprman`. The comparison is between the entered start and end dates. You can select any sample from the last seven days.

Spanning Tree VLAN Changes for all VLANs Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a start date</i>	Enter the start date of the reporting period.
<i>Please select an end date</i>	Enter the end date of the reporting period.

Table 355 Spanning Tree VLAN Changes for all VLANs Report Options

Spanning Tree VLAN Changes for all VLANs Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Spanning Tree VLAN Changes for all VLANs.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Start date</i>	Start date of the reporting period.
<i>End date</i>	End date of the reporting period.

Table 356 Spanning Tree VLAN Changes for all VLANs Header

Spanning Tree VLAN Changes for all VLANs Report Details

For each VLAN within the selected view the report includes two tables; the first lists STP connectivity changes, the second VLAN changes, both clearly identify old, new and deleted settings.

Name	Description
<i>From</i>	The device and port address connected to another device
<i>State</i>	The local device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Connected to</i>	The address of the host and port
<i>State</i>	The target device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.

Table 357 Spanning Tree VLAN Changes for all VLANs Settings

This table lists STP VLAN changes, clearly identifying old, new and deleted settings.

Name	Description
<i>Switch</i>	Switch resolved name or IP address.
<i>Root Switch > Port</i>	The switch acting as the center of the VLAN. Other switches use this as the center of the network when calculating a set of root and designated ports during the initial convergence to create a loop free network. is the device's designated root port. For the root switch this is set to NULL as the root switch does not have a designated root port.
<i>Root Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.
<i>Change Count</i>	The number of Root Switch changes. This is a running total.
<i>Max Age</i>	The length of time, in seconds, that the switch stores a BPDU before discarding it.
<i>Forward Delay</i>	The time, in seconds, the switch spends in the Listening and Learning states.
<i>Hello Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Hold Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.

Table 358 Spanning Tree VLAN Changes for all VLANs Settings

Spanning Tree VLAN Configuration Report

Entuity Report

Spanning Tree VLAN Config



Printed on: Thu Nov 26 16:39:38 GMT 2009

Description: Spanning Tree VLAN configuration for selected vlan and date

Vlan: wipeout: 1

View: Regional

COMPRESSOR

Sample Date: Friday 20 November 2009

VTP Pruning: Disabled

STP Summary for VLAN

Root Switch	lonsw03
Blocking	1
Forwarding	6
Trunk Port Count	7

VTP Servers

lonsw01
lonsw03

VTP Switches

lonsw01
lonsw02
lonsw03

STP Connectivity

From	State	Connected to	State	Cost
lonsw01: [2/1] TRUNK to lonsw02	blocking	lonsw02: [2/1] TRUNK to lonsw01	forwarding	19
lonsw01: [2/2] TRUNK to lonsw03	forwarding	lonsw03: [2/2] TRUNK to lonsw01	forwarding	19
lonsw02: [2/1] TRUNK to lonsw01	forwarding	lonsw01: [2/1] TRUNK to lonsw02	blocking	19
lonsw02: [2/2] TRUNK to lonsw03	forwarding	lonsw03: [2/1] TRUNK to lonsw02	forwarding	19
lonsw03: [2/1] TRUNK to lonsw02	forwarding	lonsw02: [2/2] TRUNK to lonsw03	forwarding	19
lonsw03: [2/2] TRUNK to lonsw01	forwarding	lonsw01: [2/2] TRUNK to lonsw03	forwarding	19
lonsw03: [2/8] DEVMAN [LW]	forwarding	bottom2960: [Fa0/1] FastEthernet0/1	forwarding	19

STP Settings

Switch	Root Switch -> Port	Root Cost	Change Count	Max Age	Hello Time	Hold Time	Forward Delay
lonsw01	lonsw03 -> [2/2] TRUNK to lonsw01	19	539	20.0	2.0	1.0	15.0
lonsw02	lonsw03 -> [2/3] TRUNK to lonsw04	19	14	20.0	2.0	1.0	15.0
lonsw03	lonsw03 -> none	0	1132	20.0	2.0	1.0	15.0

Figure 132 Spanning Tree VLAN Configuration Report

Spanning Tree VLAN Configuration Report Overview

This report details the STP settings and connectivities for the selected VLAN. Device News provides consolidated reporting for a whole collection of switches comprising a Spanning Tree, specifically the:

- VTP Server.
- Spanning Tree diameter (maximum number of hops).
- Root switch.
- Number of topology changes.
- Topology information, including port connectivity, blocking/forwarding status, and path cost.

Spanning Tree VLAN Configuration Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a VLAN</i>	From the drop down list you can select one device to run the report against.
<i>Please select a start date</i>	Enter the start date of the reporting period.

Table 359 Spanning Tree VLAN Configuration Report Options

Spanning Tree VLAN Configuration Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Spanning Tree VLAN Configuration.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Server</i>	Entuity server managing the device.

Table 360 Spanning Tree VLAN Configuration Header

Spanning Tree VLAN Configuration Report Details

Name	Description
Sample Date	is the date the device configuration data refers to. Device STP data is collected daily by stpman.

Table 361 STP VLAN Settings

Name	Description
VTP Pruning	VTP pruning status can be: <ul style="list-style-type: none"> ■ enabled so the device only receives broadcast frames for VLANs to which it has ports assigned. ■ disabled so the device receives all broadcast frames and forwards them through all of its trunk ports.
STP Summary	Root switch is the switch acting as the centre of the VLAN. Other switches use this as the centre of the network when calculating a set of root and designated ports during the initial convergence to create a loop free network. Trunk port count uses three measures: <ul style="list-style-type: none"> ■ Forwarding is the number of trunk ports in the STP state Forward, capable of sending and receiving user data. ■ Blocking is the number of trunk ports in the STP state Backward, receiving only BPDUs. ■ Diameter is the Layer 2 network diameter, i.e. the maximum number of switch hops between any two hosts in the Layer 2 network.
VTP Servers	List of VTP servers.
VTP Switches	Lists the STP switches.
VTP Anomalies	Lists the VTP anomalies recorded for this date.
VLAN	The VLAN name
<i>Change Count</i>	The number of Root Switch changes. This is a running total.
<i>Max Age</i>	The length of time, in seconds, that the switch stores a BPDU before discarding it.
<i>Hello Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Forward Delay</i>	The time, in seconds, the switch spends in the Listening and Learning states.
<i>Hold Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Root Switch > Port</i>	The switch acting as the centre of the VLAN. Other switches use this as the centre of the network when calculating a set of root and designated ports during the initial convergence to create a loop free network. is the device's designated root port. For the root switch this is set to NULL as the root switch does not have a designated root port.
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.

Table 361 STP VLAN Settings

This table details STP connectivity configuration.,

Name	Description
<i>From</i>	The device and port address connected to another device
<i>State</i>	The local device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Connected to</i>	The address of the host and port
<i>State</i>	The target device's port's STP state, i.e. Blocking, Forwarding, Designated Port, Root Port and Non-Designated Port.
<i>Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.

Table 362 Spanning Tree VLAN Settings

This table lists STP VLAN configuration

Name	Description
<i>Switch</i>	Switch resolved name or IP address.
<i>Root Switch > Port</i>	The switch acting as the center of the VLAN. Other switches use this as the center of the network when calculating a set of root and designated ports during the initial convergence to create a loop free network. is the device's designated root port. For the root switch this is set to NULL as the root switch does not have a designated root port.
<i>Root Cost</i>	The cumulative root path cost, the lower the value the closer the devices are.
<i>Change Count</i>	The number of Root Switch changes. This is a running total.
<i>Max Age</i>	The length of time, in seconds, that the switch stores a BPDU before discarding it.
<i>Forward Delay</i>	The time, in seconds, the switch spends in the Listening and Learning states.
<i>Hello Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.
<i>Hold Time</i>	The time interval, in seconds, between the sending of Configuration BPDUs.

Table 363 Spanning Tree VLAN Settings

Spare Ports by Device Report

Entuity Report

Spare Ports by Device



Printed on: 26 Nov 2009 16:23:13 GMT

Description: Spare port statistics for a selected device sorted by the time that each port has been spare

View: Regional

Device: c3560

Port description	Days since last activity	Date of last activity	VLAN
[Fa0/2] FastEthernet0/2	125	23-Jul-2009	1
[Fa0/3] FastEthernet0/3	125	23-Jul-2009	1
[Fa0/4] FastEthernet0/4	125	23-Jul-2009	1
[Fa0/5] FastEthernet0/5	125	23-Jul-2009	1
[Fa0/6] FastEthernet0/6	125	23-Jul-2009	1
[Fa0/7] FastEthernet0/7	125	23-Jul-2009	1
[Fa0/8] FastEthernet0/8	125	23-Jul-2009	1
[Fa0/9] FastEthernet0/9	125	23-Jul-2009	1
[Fa0/10] FastEthernet0/10	125	23-Jul-2009	1
[Fa0/11] FastEthernet0/11	125	23-Jul-2009	1
[Fa0/12] FastEthernet0/12	125	23-Jul-2009	1
[Fa0/13] FastEthernet0/13	125	23-Jul-2009	1
[Fa0/14] FastEthernet0/14	125	23-Jul-2009	1
[Fa0/15] FastEthernet0/15	125	23-Jul-2009	1
[Fa0/16] FastEthernet0/16	125	23-Jul-2009	1
[Fa0/17] FastEthernet0/17	125	23-Jul-2009	1
[Fa0/18] FastEthernet0/18	125	23-Jul-2009	1
[Fa0/19] FastEthernet0/19	125	23-Jul-2009	1
[Fa0/20] FastEthernet0/20	125	23-Jul-2009	1
[Fa0/21] FastEthernet0/21	125	23-Jul-2009	1
[Fa0/22] FastEthernet0/22	125	23-Jul-2009	1
[Fa0/23] FastEthernet0/23	125	23-Jul-2009	1
[Fa0/24] FastEthernet0/24	125	23-Jul-2009	1
[Fa0/1] FastEthernet0/1	62	25-Sep-2009	1

Figure 133 Spare Ports by Device Report

Spare Ports by Device Report Overview

This report identifies ports for the selected device that are currently unused and the length of time they have been in that state. From it you can determine whether a port truly is spare and available for reassignment.

The Spare Port Report:

- Includes ports that have been unused for forty days or more.
- Includes ports that have system uptime of less than forty days and are currently unused.
- Excludes ports that have been unused for less than forty days but have a system uptime of forty days or more.
- Is generated from data collected in real-time enabled through the StormWorks configuration.

Spare Ports by Device Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.
<i>Please select a device</i>	From the drop down list you can select one device to run the report against.

Table 364 Spare Ports by Device Report Options

Spare Ports by Device Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Spare Ports by Device.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Server</i>	Entuity server against which the report was run.
<i>View</i>	View the report is run against.
<i>Devices</i>	Device the report is run against.

Table 365 Spare Ports by Device Report Header

Spare Ports by Device Report Details

Name	Description
<i>Port description</i>	Description of the port.
<i>Days since last activity</i>	Number of days since the port was last active.
<i>Date of last activity</i>	Date the port was last active.
<i>VLAN</i>	Number of VLANs associated with the port.

Table 366 Spare Ports by Device Report Header

Spare Ports by View Report

Entuity Report

Spare Ports by View



Printed on: 25 Nov 2009 17:21:42 GMT

Description: Spare port statistics per device sorted by the number of spare ports

View: Regional

Note: Only switching devices are included in this report

Device name	Location	Manufacturer / model	Physical ports	Spare ports	Spare port %
hp-4202vl72.vendor.entuity.lab	"Simulator"	Hewlett Packard / J8772A	100	80	80.0
c3560.entuity.local	Entuity Test Room	cisco / WS-C3560-24TS-E	26	24	92.3
c3560	Entuity Test Room	cisco / WS-C3560-24TS-E	26	24	92.3
top2960.entuity.local	The real top of the pile	cisco / WS-C2960-24TT-L	26	21	80.8
top2960	The real top of the pile	cisco / WS-C2960-24TT-L	26	21	80.8
bottom2960.entuity.local	Entuity Test Room	cisco / WS-C2960-24TT-L	26	20	76.9
bottom2960	Entuity Test Room	cisco / WS-C2960-24TT-L	26	20	76.9
top3550	top-of-pile in test area	cisco / WS-C3550-24-EMI	26	19	73.1
10.44.1.9		cisco / C2950XL	26	17	65.4
lonsw01.entuity.local		cisco / WS-C5505	48	13	27.1
lonsw01		cisco / WS-C5505	48	13	27.1
lonsw03.entuity.local		cisco / WS-C5505	48	11	22.9
lonsw03		cisco / WS-C5505	48	11	22.9
s1912	The fridge (brrrr...)	cisco / 1900i	17	5	29.4
eyepoller.bvt.entuity.lab	"Simulator"	cisco / WS-C2950G-24-EI	26	4	15.4
lonsw02.entuity.local	Development cabinet	cisco / WS-C5505	12	3	25.0
lonsw02	Development cabinet	cisco / WS-C5505	12	3	25.0
cisco-catalyst3524xl.vendor.entuity.lab	"Simulator"	cisco / 3524 XL	26	2	7.7
10.44.1.62		Hewlett Packard / C.25.80	1	0	0.0
bottom3550	Entuity Test Room	cisco / WS-C3550-24-EMI	26	0	0.0
sam2150.entuity.local		Hewlett Packard / A.03.15	1	0	0.0
foundrynetiron4000.vendor.entuity.lab		Foundry Networks Inc. / NI-XMR-1Gx20-SFP 20-port 1GbE/100FX Module	41	0	0.0
hpj2355a.vendor.entuity.lab	"Simulator"	Hewlett Packard / HPJ2355A	1	0	0.0
alcatel-6024.vendor.entuity.lab	"Simulator"	Xylan Corp. / OmniStack 6024	26	0	0.0
motorolavanguard6450.vendor.entuity.lab	"Simulator"	Codex / 6450	15	0	0.0
lucent-15101.vendor.entuity.lab	"Simulator"	Riverstone Networks / 15101	31	0	0.0
verthor-2402s.vendor.entuity.lab	"Simulator"	Enterasys Networks / VH-2402S	52	0	0.0
summit24e3.vendor.entuity.lab	"Simulator"	Extreme Networks / Summit24e3	26	0	0.0
matrix-e7-6g302-06.vendor.entuity.lab	Chancery Lane Computer Room	Enterasys Networks / 6G302-06	13	0	0.0

Figure 134 Spare Ports by View Report

Spare Ports by View Report Overview

This report identifies devices with switching capabilities within the selected view that have currently unused ports. The summary statistics on the device ports allow you to identify devices for further investigation, where you can determine whether a port truly is spare and available for reassignment.

This report:

- Includes ports that have been unused for forty days or more.
- Includes ports that have system uptime of less than forty days and are currently unused.
- Excludes ports that have been unused for less than forty days but have a system uptime of forty days or more.
- Is generated from data collected in real-time enabled through the StormWorks configuration.

Spare Ports by View Report Options

Report Options allow you to configure the parameters of the report, focusing it on the components in which you are most interested.

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	From the drop down list select one view to run the report against.

Table 367 Spare Ports by View Report Options

Spare Ports by View Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Spare Ports by View.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 368 Spare Ports by View Header

Spare Ports by View Report Details

Name	Description
<i>Name</i>	System name or where not available the IP address.

Table 369 Spare Ports by View

Name	Description
<i>Model</i>	The device model.
<i>Location</i>	Device SysLocation, or where not available it is left blank.
<i>Manufacturer / Model</i>	<p>Manufacturer name is derived by matching the manufacturer number against the first 2500 Private Enterprise Codes compiled by the Internet Assigned Numbers Authority (http://www.iana.org/assignments/enterprise-numbers). Where the manufacturer code is not matched then the first part of the device name is taken, usually this is the manufacturer's name.</p> <p>Model of the device.</p>
<i>Physical Ports</i>	Number of physical ports on the device.
<i>Spare Ports</i>	Number of spare ports on the device.
<i>Spare Ports %</i>	Number of spare ports on the device as a percentage of the total number of physical ports on the device.

Table 369 Spare Ports by View

12 Planning Reports

Entuity provides four planning reports which network managers can use to identify areas of the network where an increasing load may impact service delivery. These reports are highly configurable, potentially different reports can have different definitions of critical states reflecting the importance of managed objects under that view.

Running Planning Reports

You can run the planning report from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Planning Reports**. Entuity displays the list of available reports.

The screenshot shows the Entuity web interface. The top navigation bar includes 'Dashboards', 'InSight Center', 'Explorer', 'Events', 'Maps', 'Charts', 'Flows', 'Reports', 'Tools', 'Administration', and 'Help'. The user is logged in as 'admin@entionppvm01' and the page was updated at '09:58:45, GMT'. The main content area is titled 'Reports' and shows a breadcrumb 'reports > Planning'. Below this is a table with the following columns: Report, Schedule, History, and Description. The table lists eight reports, each with a 'Schedule' icon (a calendar) and a 'History' icon (a document). The reports are: Device CPU Capacity Planning - Heat Map, Device CPU Capacity Planning - Trend, Device Memory Capacity Planning - Heat Map, Device Memory Capacity Planning - Trend, Port Bandwidth Capacity Planning - Heat Map, Port Bandwidth Capacity Planning - Trend, Port Discards Capacity Planning - Heat Map, and Port Discards Capacity Planning - Trend. A 'Scheduled Reports' button is located at the bottom left of the table area.

Report	Schedule	History	Description
Device CPU Capacity Planning - Heat Map			Device CPU Capacity Planning report with output displayed in heat map format
Device CPU Capacity Planning - Trend			Device CPU Capacity Planning report displaying CPU util% mean, 95th percentile and trend
Device Memory Capacity Planning - Heat Map			Device Memory Capacity Planning report with output displayed in heat map format
Device Memory Capacity Planning - Trend			Device Memory Capacity Planning report displaying memory util% mean, percentile and trend
Port Bandwidth Capacity Planning - Heat Map			Port Bandwidth Capacity Planning report with output displayed in heat map format
Port Bandwidth Capacity Planning - Trend			Port Bandwidth Capacity Planning report displaying port util% mean, percentile, trend and mean traffic rate
Port Discards Capacity Planning - Heat Map			Port Discards Capacity Planning report with output displayed in heat map format
Port Discards Capacity Planning - Trend			Port Discards Capacity Planning report displaying port discards % mean, percentile and trend

Figure 135 Planning Reports

Device CPU Capacity Planning Heat Map Report

Entuity Report

CPU Capacity Planning



Over the period 00:00 on Thu Oct 11 2012 - 00:00 on Thu Oct 18 2012

No prime time is set for this report

Generated at 18 Oct 2012 10:25:31 BST for the My Network view

Capacity Planning Summary

Range Thresholds

- 100% $\geq x > 70\%$
- 70% $\geq x > 50\%$
- 50% $\geq x > 20\%$
- 20% $\geq x \geq 0\%$

A device is in Critical state when

- * In Red for 10% of time or more
- * Or in Amber for 60% of time or more
- * Or in Green for 95% of time or more

Where x is the average hourly Device CPU Utilization

A list of all devices sorted by Mean Device CPU Util			
Devices in Critical State only			
Device Name	Category	Mean Device CPU Util	Peak Device CPU Util
10.66.13.22	Critical	84.35%	97.33%
nokia-fw.bvt.entuity.lab	Critical	82.00%	82.00%
perf03	Critical	75.27%	94.33%
aruba2400.entuity.lab	Critical	65.00%	65.00%
lonsofs02.entuity.local	Critical	58.95%	100.00%
10.66.13.25	Critical	52.21%	52.23%
lonsw04.entuity.local	Critical	47.68%	99.00%
10.66.13.35	Critical	42.99%	76.75%
c2503	Critical	40.05%	53.00%
192.168.242.123	Critical	40.03%	53.00%
lonsw05.entuity.local	Critical	37.19%	42.92%
new2610	Critical	35.29%	52.92%
192.168.248.130	Critical	35.29%	52.83%
r2503	Critical	35.29%	53.08%
sunshower.entuity.local	Critical	33.16%	41.46%
10.66.60.10	Critical	24.00%	24.00%

Figure 136 Device CPU Capacity Planning Heat Map Report

10.66.13.35																								Avg Hour	Peak Hour	
Date	09:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
11 October	10	43	68	64	40	13	55	58	45	18	11	60	49	66	57	56	73	66	24	19	68	76	58	59	48.60	76.42
12 October	45	40	23	38	25	48	28	46	48	27	32	15	12	14	36	70	70	76	67	50	44	11	65	33	40.51	76.25
13 October	16	19	30	58	68	55	76	42	39	18	50	20	41	44	55	70	66	39	7.5	22	51	68	71	75	46.41	76.75
14 October	29	26	27	20	28	53	74	31	30	45	20	18	67	14	12	18	22	26	41	54	25	49	35	65	35.06	74.67
15 October	71	47	61	30	33	48	27	19	60	45	73	69	66	74	43	52	52	47	21	13	21	71	33	10	43.44	74.83
16 October	27	72	47	23	67	74	31	34	14	14	34	45	34	6.3	30	64	15	12	9.0	51	41	67	69	53	39.34	74.83
17 October	71	52	46	69	66	21	48	42	50	10	18	64	55	40	53	46	15	29	34	34	56	53	74	51	46.27	74.08
18 October	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74.58	74.58

Figure 137 Device CPU Capacity Planning Heat Map

Device CPU Capacity Planning Heat Map Overview

The Device CPU Capacity Planning Heat Map report provides a management level summary of CPU utilization for the selected view. A table and device heat map clearly identify devices with CPU utilization in a critical state, the definition of a critical state is one you can configure. A critical state indicates a potential capacity problem.

The report includes hourly mean average CPU utilization, which are banded into four color coded utilization levels (Red, Amber, Green and Blue). You can set the boundaries of the three top-most ranges, and then set critical state values for these top three utilization bands. For example, for the Red band - the highest utilization - you may accept the default value of 10%; device CPU utilization must have been in the red zone for 10% or more of the reporting period for utilization to be considered as in a critical state.

Device CPU Capacity Planning Heat Map Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Heat Map Threshold - Red (%)	Sets the threshold for mean average hourly device CPU utilization, above which utilization is considered red. The default value is 70.
Heat Map Threshold - Amber (%)	Sets lower boundary of the amber utilization level. The default value is 50, for mean average hourly device CPU utilization, the higher boundary is set by <i>Heat Map Threshold - Red (%)</i> .
Heat Map Threshold - Green (%)	Sets lower boundary of the green utilization level. The default value is 20, for mean average hourly device CPU utilization, the higher boundary is set by <i>Heat Map Threshold - Amber (%)</i> . Device CPU utilization below this range is color coded blue.

Table 370 Device CPU Capacity Planning Report Options

Name	Description
Critical state when in red for (%) of time or more	Sets the threshold equal to or above which device CPU utilization must have been in the red zone for it to be considered as in a critical state. The default is 10%; device CPU utilization must have been in the red zone for 10% or more of the reporting period.
Critical state when in amber for (%) of time or more	Sets the threshold equal to or above which device CPU utilization must have been in the amber zone for it to be considered as in a critical state. The default is no value; the amber zone does not set the critical state of the device.
Critical state when in green for (%) of time or more	Sets the threshold equal to or above which device CPU utilization must have been in the green zone for it to be considered as in a critical state. The default is no value; the green zone does not set the critical state of the device.
<i>Only list devices in a Critical State</i>	When selected only devices in a critical state are included to the report table.
Draw Heat Maps for TopN	Include heat maps for the specified number of devices, sorted by those with the highest mean average device CPU utilization. Heat maps are only produced for devices with critical state CPU utilization.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 370 Device CPU Capacity Planning Report Options

Device CPU Capacity Planning Heat Map Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. ATM Port Utilization.
<i>Description</i>	Description of the report, e.g reporting period.
Prime Time	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Generated</i>	Date and time the report was generated.

Table 371 Device CPU Capacity Planning Heat Map Utilization Header

Device CPU Capacity Planning Heat Map Summary

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Capacity Score</i>	A derived value that represents the current level of capacity usage for the object. Entuity sorts the table on this column.
<i>Category</i>	Capacity category derived from Capacity Score.
<i>Mean Util</i>	Mean utilization over the reporting period for the object.
<i>Peak Util</i>	Peak utilization over the reporting period for the object.

Table 372 Device CPU Capacity Planning Inbound Heat Map Summary

Device CPU Capacity Planning Heat Map

The Heat Map displays the days in rows, the number of which is determined by the duration of the report period. The hours are displayed in columns, the number of which is definable by creating the Prime Time configuration. Each cell within the table contains the average CPU utilization value for that hour, with a color coded background indicating its level of utilization.

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Color Coded Values</i>	Hourly sample color coded according to the Range Thresholds, detailed on the report's front page.
<i>Avg Hour</i>	Average hourly value returned over the date within the reporting period for the object.
<i>Peak Hour</i>	Highest hourly value returned over the date within the reporting period for the object.

Table 373 Device CPU Capacity Planning Heat Map Report

Device CPU Capacity Planning Trend Report

Entuity Report



Device CPU Capacity Planning - Trend

Description: Device CPUs selected by historic or predicted utilization levels

View: Africa

Sorted by: null

Over the period 00:00 on Sun Jul 19 2015 - 00:00 on Sun Sep 13 2015

No prime time is set for this report

Printed on: 14 Sep 2015 17:41:48 BST

This report will only display information for the first 20 devices.

Device name	CPU util% mean	CPU util% 95th percentile	CPU util% 6 month predicted
10.44.1.43	8.7	10.0	9.6
10.44.1.49	25.7	56.0	24.7
10.44.1.65	--	--	--
10.44.1.93	--	--	--
10.44.1.116	--	--	--
10.44.2.140	--	--	--
bottom2960	22.8	25.0	19.6
bottom3550	6.9	8.0	6.2
BRW485AB61B2649	--	--	--
new2610	12.9	14.0	13.4
stack3750	48.0	57.0	70.2
top3550	13.8	15.0	12.1
vortex	--	--	--
10.66.13.22	535508.6	76.7	69.5
10.66.13.25	52.3	52.3	52.2
10.66.13.27	2234930.8	3316703.5	15162932.0

Warning: 50% - 80%

Critical: > 80%

Figure 138 Device CPU Capacity Planning Heat Map Report

Device CPU Capacity Planning Trend Overview

The Device CPU Capacity Planning Trend report provides a management level summary of CPU utilization for the selected view. A trend table highlights devices with CPU utilization in a warning and critical states, the definition of critical and warning states is user configurable. A critical state indicates a potential capacity problem.

Device CPU Capacity Planning Trend Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort</i>	The report can be sorted by these metrics: <ul style="list-style-type: none"> ■ Mean Utilization ■ 95th Percentile utilization ■ 6 month projected utilization.
<i>TopN</i>	By default limits the number of devices to the 20 reporting the highest values on the <i>Sort</i> metric.
<i>Warning Threshold (%)</i>	Sets the threshold for mean average hourly device CPU utilization, above which utilization is considered red. The default value is 70.
<i>Critical Threshold (%)</i>	Sets lower boundary of the amber utilization level. The default value is 50, for mean average hourly device CPU utilization, the higher boundary is set by <i>Heat Map Threshold - Red (%)</i> .
<i>Only list items in Critical State</i>	When selected only devices with CPU utilization in a critical state are included to the report. My default it is not selected.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 374 Device CPU Capacity Planning Trend Report Options

Device CPU Capacity Planning Trend Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device CPU Capacity Planning - Trend.
<i>Description</i>	Description of the report, e.g reporting period.
<i>Prime Time</i>	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Sorted by</i>	The report can be sorted by these metrics: <ul style="list-style-type: none"> ■ Mean Utilization ■ 95th Percentile utilization ■ 6 month projected utilization.
<i>Generated</i>	Date and time the report was generated.

Table 375 Device CPU Capacity Planning Trend Utilization Header

Device CPU Capacity Planning Trend

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device. Click on the device name to open the CPU Utilization report for the device.
<i>CPU Util% Mean</i>	Mean CPU utilization over the reporting period for the device.
<i>CPU Util% 95th percentile</i>	Indicates the 95th percentile CPU utilization values over the reporting period, as a percentage of total CPU resource.
<i>CPU Util% 6 month predicted</i>	Predicts CPU utilization as a percentage of port speed. You can also click on the values to run the CPU Utilization Trend report within the context of the port.

Table 376 Device CPU Capacity Planning Trend

Device Memory Capacity Planning Heat Map Report

Entuity Report

Memory Capacity Planning



Over the period 00:00 on Thu Oct 11 2012 - 00:00 on Thu Oct 18 2012

No prime time is set for this report

Generated at 18 Oct 2012 10:27:42 BST for the My Network view

Capacity Planning Summary

Range Thresholds

- $x > 70\%$
- $70\% \geq x > 50\%$
- $50\% \geq x > 20\%$
- $20\% \geq x \geq 0\%$

A device is in Critical state when

* In Red for 10% of time or more

Where x is the average hourly Device Memory Utilization

A list of all devices sorted by Mean Device Memory Used Util Devices in Critical State only			
Device Name	Category	Mean Device Memory Util	Peak Device Memory Util
buildervm	Critical	152.50%	152.51%
nokia-fw.bvt.entuity.lab	Critical	88.51%	88.51%
qa-server	Critical	83.63%	85.60%
win2k82	Critical	81.91%	90.53%
squall	Critical	78.49%	84.18%
remedy	Critical	76.58%	76.66%
lonsw04.entuity.local	Critical	75.25%	76.86%
fishtail	Critical	72.40%	74.02%
perf03	Critical	71.59%	76.47%
bmc2010-win	Critical	71.04%	74.28%
top2960.entuity.local	Critical	70.63%	70.64%
wintest09	Critical	70.62%	79.32%
bottom2960.entuity.local	Critical	70.15%	70.56%
perf02	Critical	65.45%	93.83%
win2k83	Critical	37.05%	86.88%

Figure 139 Device Memory Capacity Planning Heat Map Report

perf02																									Avg Hour	Peak Hour
Date	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
11 October 2012	17.51	17.51	17.99	17.46	17.46	17.47	17.46	17.46	17.47	17.47	17.47	22.34	14.32	14.34	15.24	17.43	52.68	71.62	74.21	76.45	78.09	78.66	79.13	93.83	36.78	93.83
12 October 2012	84.73	85.11	77.51	79.64	83.16	83.80	84.86	82.98	83.38	83.88	84.28	83.85	83.90	85.14	85.68	84.98	85.08	85.80	86.48	87.41	86.88	87.11	87.43	84.49	87.43	
13 October 2012	84.39	82.14	82.34	84.00	84.33	83.44	83.57	83.28	83.28	83.28	84.07	83.94	85.53	48.10	50.49	52.14	55.84	60.07	60.13	60.20	60.34	60.40	60.50	60.50	70.68	84.33
14 October 2012	61.39	61.27	61.66	61.66	62.98	63.09	63.41	63.34	63.29	63.37	63.72	64.00	64.65	64.22	64.30	64.38	64.34	64.03	63.99	63.99	64.07	64.33	64.62	64.85	63.54	84.85
15 October 2012	65.27	65.18	65.31	65.45	65.47	65.44	66.11	65.65	65.55	65.57	65.96	66.24	66.17	66.12	66.19	66.16	66.11	66.16	66.30	66.50	66.52	66.66	66.70	66.72	65.98	66.72
16 October 2012	66.92	67.09	67.52	67.35	67.40	67.42	67.81	67.77	67.90	67.83	67.98	68.00	67.81	67.73	68.02	67.90	67.88	67.62	67.73	67.74	67.91	67.91	67.85	68.17	67.72	68.17
17 October 2012	68.17	68.21	68.33	68.43	68.37	68.44	68.79	68.91	68.78	68.70	68.83	69.10	69.00	68.99	68.99	68.86	68.88	68.87	68.99	69.15	68.88	68.96	69.00	69.03	68.78	69.15
18 October 2012	69.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.22	69.22	

Figure 140 Device Memory Capacity Planning Heat Map Report

Device Memory Capacity Planning Heat Map Overview

The Device Memory Capacity Planning Heat Map report provides a management level summary of memory utilization for devices in the selected view. A table and device heat map clearly identify devices with memory utilization in a critical state, the definition of a critical state is one you can configure. A critical state indicates a potential capacity problem.

The report includes hourly mean average memory utilization, which are banded into four color coded utilization levels (Red, Amber, Green and Blue). You can set the boundaries of the three top-most ranges, and then set critical state values for these top three utilization bands. For example, for the Red band - the highest utilization - you may accept the default value of 10%; device memory utilization must have been in the red zone for 10% or more of the reporting period for utilization to be considered as in a critical state.

Device Memory Capacity Planning Heat Map Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Heat Map Threshold - Red (%)	Sets the threshold for mean average hourly device memory utilization, above which utilization is considered red. The default value is 70.
Heat Map Threshold - Amber (%)	Sets lower boundary of the amber utilization level. The default value is 50, for mean average hourly device memory utilization, the higher boundary is set by <i>Heat Map Threshold - Red (%)</i> .
Heat Map Threshold - Green (%)	Sets lower boundary of the green utilization level. The default value is 20, for mean average hourly device memory utilization, the higher boundary is set by <i>Heat Map Threshold - Amber (%)</i> . Device memory utilization below this range is color coded blue.

Table 377 Port Capacity Planning - Rate Options

Name	Description
Critical state when in red for (%) of time or more	Sets the threshold equal to or above which device memory utilization must have been in the red zone for it to be considered as in a critical state. The default is 10%; device memory utilization must have been in the red zone for 10% or more of the reporting period.
Critical state when in amber for (%) of time or more	Sets the threshold equal to or above which device memory utilization must have been in the amber zone for it to be considered as in a critical state. The default is no value; the amber zone does not set the critical state of the device.
Critical state when in green for (%) of time or more	Sets the threshold equal to or above which device memory utilization must have been in the green zone for it to be considered as in a critical state. The default is no value; the green zone does not set the critical state of the device.
<i>Only list devices in a Critical State</i>	When selected only devices in a critical state are included to the report table.
Draw Heat Maps for TopN	Include heat maps for the specified number of devices, sorted by those with the highest mean average device memory utilization. Heat maps are only produced for devices with critical state memory utilization.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 377 Port Capacity Planning - Rate Options

Device Memory Capacity Planning Heat Map Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. ATM Port Utilization.
<i>Description</i>	Description of the report, e.g. reporting period.
Prime Time	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Generated</i>	Date and time the report was generated.

Table 378 Device Memory Capacity Planning Heat Map Header

Device Memory Capacity Planning Heat Map Summary

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Capacity Score</i>	A derived value that represents the current level of capacity usage for the object. Entuity sorts the table on this column.
<i>Category</i>	Capacity category derived from Capacity Score.
<i>Mean Util</i>	Mean utilization over the reporting period for the object.
<i>Peak Util</i>	Peak utilization over the reporting period for the object.

Table 379 Device Memory Capacity Planning Heat Map Report

Device Memory Capacity Planning Heat Map

The Heat Map displays the days in rows, the number of which is determined by the duration of the report period. The hours are displayed in columns, the number of which is definable by creating the Prime Time configuration. Each cell within the table contains the average memory utilization value for that hour, with a color coded background indicating its level of utilization.

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Color Coded Values</i>	Hourly sample color coded according to the Range Thresholds, detailed on the report's front page.
<i>Avg Hour</i>	Average hourly value returned over the date within the reporting period for the object.
<i>Peak Hour</i>	Highest hourly value returned over the date within the reporting period for the object.

Table 380 Device Memory Capacity Planning Heat Map Report

Device Memory Capacity Planning Trend Report

Entuity Report



Device Memory Capacity Planning - Trend

Description: Device Memory selected by historic or predicted utilization levels

View: My Network (admin)

Sorted by: 6 months projected Memory utilization

Over the period 00:00 on Sun Aug 02 2015 - 00:00 on Sun Sep 27 2015

No prime time is set for this report

Printed on: 2 Oct 2015 13:59:01 BST

This report will only display information for the first 20 devices.

Device name	Memory util% mean	Memory util% 95th percentile	Memory util% 6 month predicted
stack3750	66.4	73.5	225.4
entlonsw03	72.1	77.0	146.9
gns2	47.3	47.5	137.6
dual-nic-server	85.1	95.6	123.5
milkyway	105.1	105.1	105.2
10.66.13.27	97.9	97.9	98.2
buildervm	102.4	102.5	84.3
10.66.13.25	95.5	100.0	82.5
top2960	70.8	71.9	81.8
venus	68.5	69.7	76.1
10.44.1.93	58.6	59.7	76.0
entlonsw01	46.5	48.4	74.7
bottom2960	69.6	69.8	72.9
aruba6000.bvt.entuity.lab	71.1	71.1	71.1
entlonsw02	43.1	44.8	68.3
10.44.2.140	59.4	59.7	62.5
madrid-switchb	39.9	40.7	53.1
madrid-eye-server	47.8	48.9	52.3
madrid-switch	39.0	39.8	50.7
e2821.entuity.local	34.1	35.1	49.3

Warning: 50% - 80%

Critical: > 80%

Page 1 of 1

Figure 141 Device Memory Capacity Planning Heat Map Report

Device Memory Capacity Planning Trend Overview

The Device Memory Capacity Planning Trend report provides a management level summary of memory utilization for the selected view. A trend table highlights devices with memory utilization in warning and critical states, the definition of critical and warning states is user configurable. A critical state indicates a potential capacity problem.

Device Memory Capacity Planning Trend Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort</i>	The report can be sorted by these metrics: <ul style="list-style-type: none"> ■ Mean Utilization ■ 95th Percentile utilization ■ 6 month projected utilization.
<i>TopN</i>	By default limits the number of devices to the 20 reporting the highest values on the <i>Sort</i> metric.
<i>Warning Threshold (%)</i>	Sets the threshold for mean average hourly device Memory utilization, above which utilization is considered red. The default value is 50.
<i>Critical Threshold (%)</i>	Sets lower boundary of the amber utilization level. The default value is 80, for mean average hourly device memory utilization.
<i>Only list items in Critical State</i>	When selected only devices with memory utilization in a critical state are included to the report. My default it is not selected.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 381 Device Memory Capacity Planning Trend Report Options

Device Memory Capacity Planning Trend Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Memory Capacity Planning - Trend.
<i>Description</i>	Description of the report, e.g. reporting period.
<i>Prime Time</i>	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Sorted by</i>	The report can be sorted by these metrics: <ul style="list-style-type: none"> ■ Mean Utilization ■ 95th Percentile utilization ■ 6 month projected utilization.
<i>Generated</i>	Date and time the report was generated.

Table 382 Device Memory Capacity Planning Trend Utilization Header

Device Memory Capacity Planning Trend

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device. Click on the device name to open the Memory Utilization report for the device.
<i>Memory Util% Mean</i>	Mean Memory utilization over the reporting period for the device.
<i>Memory Util% 95th percentile</i>	Indicates the 95th percentile memory utilization values over the reporting period, as a percentage of total memory resource.
<i>Memory Util% 6 month predicted</i>	Predicts memory utilization as a percentage of total memory resource. You can also click on the values to run the Memory Utilization Trend report within the context of the device.

Table 383 Device Memory Capacity Planning Trend

Port Bandwidth Capacity Planning Heat Map Report

Entuity Report

Port Bandwidth Capacity Planning



Over the period 00:00 on Thu Oct 11 2012 - 00:00 on Thu Oct 18 2012

No prime time is set for this report

Generated at 18 Oct 2012 10:32:03 BST for the My Network view

Capacity Planning Summary

Range Thresholds

- 100% >= x > 70%
- 70% >= x > 50%
- 50% >= x > 20%
- 20% >= x >= 0%

A device is in Critical state when

* In Red for 1% of time or more

Where x is the average hourly Port Bandwidth Inbound Utilization

A list of all devices sorted by Mean Port Bandwidth Inbound Util Devices in Critical State only				
Device Name	Interface Description	Category	Mean Port Bandwidth Util (In / Out)	Peak Port Bandwidth Util (In / Out)
eyepoller.bvt.entuity.lab	[Fa0/7] FastEthernet0/7	Critical	51.24% / 51.24%	91.04% / 90.42%
Inrouter	[Fa0/0] :p=CW:i=2C00249950:c=Entuity Limited:o=SO8-	Critical	27.44% / 7.31%	79.07% / 75.74%
c2821.entuity.local	[Se0/1/0] Serial0/1/0	Critical	5.41% / 4.40%	98.44% / 6.18%

eyepoller.bvt.entuity.lab [Fa0/7] FastEthernet0/7 Inbound																										
Date	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Avg Hour	Peak Hour
11 October 2012	50.35	54.36	81.04	47.97	50.51	50.47	50.53	50.03	50.49	50.46	50.44	50.43	50.44	50.30	50.38	50.38	50.44	65.65	88.60	50.28	50.61	50.61	50.56	50.61	54.44	91.04
12 October 2012	50.40	54.45	49.90	50.73	50.68	50.71	50.58	50.00	50.65	50.64	50.63	50.64	50.70	50.60	50.67	50.69	50.58	50.74	50.64	50.64	50.68	50.77	50.71	50.66	50.78	54.45
13 October 2012	50.52	54.59	49.70	50.74	50.74	50.69	50.60	50.75	50.85	50.81	50.75	50.78	50.69	50.74	50.61	50.76	50.79	50.76	50.79	50.72	50.60	50.64	50.68	50.72	50.86	54.59
14 October 2012	50.82	50.85	50.65	50.61	50.61	50.61	50.64	50.67	50.58	50.63	50.63	50.74	50.63	50.63	50.62	50.68	50.71	50.54	50.65	50.57	50.64	50.61	50.55	50.64	50.63	50.74
15 October 2012	50.57	50.61	50.53	50.51	50.58	50.72	50.54	50.57	50.65	50.53	50.53	50.54	50.57	50.54	50.61	50.57	50.57	50.53	50.51	50.49	50.50	50.43	50.50	50.50	50.55	50.72
16 October 2012	50.49	54.50	49.70	50.44	50.49	50.51	50.60	50.00	50.62	50.54	50.74	50.58	50.67	50.67	50.64	50.60	50.64	50.68	50.63	50.51	50.54	50.50	50.48	50.58	50.70	54.50
17 October 2012	50.46	54.45	49.68	50.73	50.61	50.62	50.58	50.51	50.51	50.55	50.60	50.69	50.63	50.57	50.62	50.53	50.57	50.62	50.50	50.50	50.74	50.68	50.64	50.69	50.72	54.45
18 October 2012	50.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.74	50.74	

Inrouter [Fa0/0] :p=CW:i=2C00249950:c=Entuity Limited:o=SO8-9167: Inbound																										
Date	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Avg Hour	Peak Hour
11 October 2012	24.20	25.95	23.10	23.87	21.51	22.25	23.59	20.95	21.31	28.54	30.04	28.33	33.59	41.13	70.04	73.67	33.50	45.74	24.29	22.07	53.89	42.71	21.82	21.90	32.87	78.67
12 October 2012	24.12	22.24	21.85	21.33	21.40	26.82	21.30	21.31	21.56	24.78	30.49	34.54	74.80	79.07	54.03	25.84	29.21	32.12	24.45	22.52	21.76	22.52	22.67	21.31	30.09	79.07
13 October 2012	21.86	24.37	24.38	21.80	22.05	22.69	21.26	21.57	21.34	26.70	21.33	21.34	21.96	22.07	23.14	21.55	21.55	26.61	21.29	22.15	21.62	21.52	22.81	21.88	22.45	26.70
14 October 2012	22.34	26.90	21.54	21.80	21.15	21.31	21.28	21.32	21.30	26.58	21.45	21.28	21.31	26.85	21.86	22.32	21.45	21.30	21.08	21.16	21.31	26.22	21.32	21.31	22.32	26.90
15 October 2012	22.48	22.33	22.39	21.09	21.16	26.42	21.27	21.30	21.93	23.06	27.06	25.49	28.84	38.39	34.00	35.90	26.29	26.33	24.87	22.88	23.36	23.80	22.30	21.61	25.18	38.39
16 October 2012	22.18	22.19	22.27	21.41	21.58	22.17	21.97	21.35	21.72	23.87	35.04	58.35	36.29	33.08	32.63	50.73	38.25	29.28	26.92	22.77	22.03	22.90	21.95	21.94	28.08	59.35
17 October 2012	22.80	27.81	25.42	23.41	23.38	23.83	23.36	23.34	23.37	26.02	29.80	44.11	50.18	48.33	42.13	39.59	43.08	53.28	42.86	26.78	22.23	23.04	21.80	21.68	31.32	53.28
18 October 2012	22.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.53	22.53	

Figure 142 Port Bandwidth Capacity Planning Heat Map Report

Port Bandwidth Capacity Planning Heat Map Overview

The Port Bandwidth Capacity Planning Heat Map report provides insight into inbound and outbound utilization and throughput rate over the reporting period.

Port Bandwidth Capacity Planning Heat Map Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Heat Map Threshold - Red (%)	Sets the threshold for mean average hourly device port utilization, above which utilization is considered red. The default value is 70.
Heat Map Threshold - Amber (%)	Sets lower boundary of the amber utilization level. The default value is 50, for mean average hourly port utilization, the higher boundary is set by <i>Heat Map Threshold - Red (%)</i> .
Heat Map Threshold - Green (%)	Sets lower boundary of the green utilization level. The default value is 20, for mean average hourly port utilization, the higher boundary is set by <i>Heat Map Threshold - Amber (%)</i> . Port utilization below this range is color coded blue.
Critical state when in red for (%) of time or more	Sets the threshold equal to or above which port utilization must have been in the red zone for it to be considered as in a critical state. The default is 10%; port utilization must have been in the red zone for 10% or more of the reporting period.
Critical state when in amber for (%) of time or more	Sets the threshold equal to or above which port utilization must have been in the amber zone for it to be considered as in a critical state. The default is no value; the amber zone does not set the critical state of the device.
Critical state when in green for (%) of time or more	Sets the threshold equal to or above which port utilization must have been in the green zone for it to be considered as in a critical state. The default is no value; the green zone does not set the critical state of the device.
<i>Only list items in a Critical State</i>	When selected only devices in a critical state are included to the report table.
Draw Heat Maps for TopN	Include heat maps for the specified number of ports, sorted by those with the highest mean average device CPU utilization. Heat maps are only produced for ports with critical state port utilization.
Display utilization in Heat Maps	Select the type of utilization to chart on the heat maps, i.e. inbound, outbound, combined .
Exclude ports that are Admin Down	Select to exclude ports that are set to admin down.
Exclude Virtual Ports	Select to exclude ports Entuity identifies as virtual ports.

Table 384 Port Capacity Planning - Rate Options

Name	Description
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 384 Port Capacity Planning - Rate Options

Port Bandwidth Capacity Planning Heat Map Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. ATM Port Utilization.
<i>Description</i>	Description of the report, e.g reporting period.
<i>Prime Time</i>	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Generated</i>	Date and time the report was generated.

Table 385 Port Bandwidth Capacity Planning Heat Map Header

Port Bandwidth Capacity Planning Heat Map Summary

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Capacity Score</i>	A derived value that represents the current level of capacity usage for the object. Entuity sorts the table on this column.
<i>Category</i>	Capacity category derived from Capacity Score.
<i>Mean Util</i>	Mean utilization over the reporting period for the object.
<i>Peak Util</i>	Peak utilization over the reporting period for the object.

Table 386 Port Bandwidth Capacity Planning Heat Map Report

Port Bandwidth Capacity Planning Heat Map

The Heat Map displays the days in rows, the number of which is determined by the duration of the report period. The hours are displayed in columns, the number of which is definable by creating the Prime Time configuration. Each cell within the table contains the average utilization value for that hour, with a color coded background indicating its level of utilization.

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Color Coded Values</i>	Hourly sample color coded according to the Range Thresholds, detailed on the report's front page.
<i>Avg Hour</i>	Average hourly value returned over the date within the reporting period for the object.
<i>Peak Hour</i>	Highest hourly value returned over the date within the reporting period for the object.

Table 387 Port Bandwidth Capacity Planning Heat Map Report

Port Bandwidth Capacity Planning Trend Report

Entuity Report



Port Capacity Planning

Description: Ports selected by historic or predicted utilization levels

View: My Network (admin)

Sorted by: Max of 6 month projected in/outbound

Over the period 00:00 on Sun Aug 02 2015 - 00:00 on Sun Sep 27 2015

No prime time is set for this report

Printed on: 2 Oct 2015 14:29:52 BST

My Network (admin) contains 453 non-virtual ports that are operationally up. This report will only display information for the first 20 ports.

Device name	Port description	In/out util% mean	In/out rate (Mbps) mean	In/out util% 95th percentil	In/out util% 6 month predicted
stack3750	[Fa2/0/11] FastEthernet2/0/11	13.2 / 2.7	13.17 / 2.71	27.5 / 3.7	150.3 / 8.8
stack3750	[Fa2/0/22] FastEthernet2/0/22	1.0 / 16.8	1.03 / 16.79	2.1 / 35.0	8.8 / 118.6
stack3750	[Fa2/0/9] FastEthernet2/0/9	5.7 / 0.5	5.67 / 0.53	10.4 / 0.8	30.9 / 3.2
entlonsw03	[Gi1/0/1] GigabitEthernet1/0/1	1.4 / 1.6	1.38 / 1.59	1.6 / 1.8	2.7 / 3.4
bottom3550	[Fa0/9] FastEthernet0/9	0.3 / 0.6	0.32 / 0.60	0.4 / 0.8	1.4 / 1.7
bottom2960	[Fa0/24] FastEthernet0/24	0.6 / 0.3	0.60 / 0.32	0.8 / 0.4	1.7 / 1.4
c3560	[Fa0/2] FastEthernet0/2	0.7 / 0.4	0.69 / 0.43	0.7 / 0.5	0.7 / 1.6
r2610	[Se0/0] to r2503 se1	0.9 / 0.7	0.01 / 0.01	1.0 / 0.9	1.2 / 1.0
e2821.entuity.local	[Se0/0/0] Serial0/0/0	1.5 / 1.4	0.12 / 0.11	1.9 / 1.7	1.2 / 1.2
entlonsw03	[Gi1/0/13] GigabitEthernet1/0/13	0.5 / 0.4	4.56 / 4.21	0.5 / 0.5	1.2 / 1.0
stack3750	[Fa1/0/19] FastEthernet1/0/19	0.0 / 0.1	0.04 / 0.07	0.1 / 0.1	0.4 / 0.8
stack3750	[Fa2/0/1] FastEthernet2/0/1	0.9 / 0.7	0.95 / 0.70	0.8 / 0.5	0.8 / 0.7
c3560	[Fa0/1] FastEthernet0/1	0.7 / 0.8	0.74 / 0.82	0.8 / 1.0	0.7 / 0.3
bottom2960	[Fa0/1] FastEthernet0/1	0.5 / 0.7	0.46 / 0.71	0.5 / 0.7	0.7 / 0.7
entlonsw03	[Gi1/0/12] GigabitEthernet1/0/12	0.4 / 0.3	4.23 / 2.96	1.2 / 0.5	0.6 / 0.5
e2821.entuity.local	[Gi0/0] to 10.44 lan	0.5 / 0.5	0.49 / 0.49	0.5 / 0.5	0.5 / 0.5
10.44.1.49	[bond0] bond0	0.4 / 0.0	0.04 / 0.00	0.7 / 0.0	0.5 / 0.1
bottom2960	[Fa0/17] FastEthernet0/17	0.5 / 0.5	0.49 / 0.50	0.6 / 0.6	0.4 / 0.5
entlonsw03	[Gi1/0/21] GigabitEthernet1/0/21	0.2 / 0.2	1.57 / 2.11	0.2 / 0.3	0.3 / 0.4
stack3750	[Fa1/0/24] FastEthernet1/0/24	0.0 / 0.0	0.02 / 0.05	0.0 / 0.1	0.1 / 0.4

Warning: 50% - 80%

Critical: > 80%

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Figure 143 Port Bandwidth Capacity Planning Heat Map Report

Port Bandwidth Capacity Planning Trend Overview

The Port Bandwidth Capacity Planning Trend report provides a management level summary of port utilization for the selected view. A trend table highlights devices with utilization in warning and critical states, the definition of critical and warning states is user configurable. A critical state indicates a potential capacity problem.

Port Bandwidth Capacity Planning Trend Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort by</i>	The report can be sorted by these metrics: <ul style="list-style-type: none"> ■ Mean inbound ■ Mean outbound ■ 95th Percentile inbound ■ 95th Percentile outbound ■ 6 month projected inbound. ■ 6 month projected outbound. ■ Max of mean in/outbound ■ Max of 95th Percentile in/outbound ■ Max of 6 month projected in/outbound.
<i>TopN</i>	By default limits the number of devices to the 20 reporting the highest values on the <i>Sort</i> metric.
<i>Warning Threshold (%)</i>	Sets the threshold for mean average hourly port bandwidth utilization, above which utilization is considered in a warning state when it is also equal to or below the critical threshold. The default value is 50.
<i>Critical Threshold (%)</i>	Sets the threshold for mean average hourly port bandwidth utilization, above which utilization is considered in a critical state. The default value is 80.
<i>Only list devices in a Critical State</i>	When selected only devices in a critical state are included to the report. My default it is not selected.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 388 Port Bandwidth Capacity Planning Trend Report Options

Name	Description
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 388 Port Bandwidth Capacity Planning Trend Report Options

Port Bandwidth Capacity Planning Trend Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port BANDWIDTH Capacity Planning - Trend.
<i>Description</i>	Description of the report, e.g reporting period.
<i>Prime Time</i>	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Generated</i>	Date and time the report was generated.

Table 389 Port Bandwidth Capacity Planning Trend Utilization Header

Port Bandwidth Capacity Planning Trend

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device.
<i>Port Description</i>	Description of the port is also a hyperlink to the Port Utilization Details Report.
<i>In/out Util% mean</i>	Mean inbound and outbound port utilization over the reporting period for the port.
<i>In/out (Mbps) Rate mean</i>	Rate of inbound and outbound traffic over the reporting period for the port.
<i>In/out Util% 95th percentile</i>	Indicates the 95th percentile of inbound and outbound utilization values over the reporting period, as a percentage of respectively inbound and outbound resource.
<i>In/out Util% 6 month predicted</i>	Predicts inbound and outbound port utilization in 6 months time, as a percentage of respectively inbound and outbound capacity. You can also click on the values to run the Port Utilization Trend report within the context of the port.

Table 390 Port Bandwidth Capacity Planning Trend

Port Discards Capacity Planning Heat Map Report

Entuity Report



Port Discards Capacity Planning - Heat Map

Over the period 00:00 on Fri Sep 25 2015 - 00:00 on Fri Oct 02 2015

No prime time is set for this report

Generated at 2 Oct 2015 15:26:44 BST for the Africa view

Capacity Planning Summary

Range Thresholds

- 100% >= x > 70%
- 70% >= x > 50%
- 50% >= x > 20%
- 20% >= x >= 0%

A device is in Critical state when

* In Red for 10.00% of time or more

Where x is the average hourly Port Discards Combined

A list of all devices sorted by Mean Port Discards Combined																									
Device Name	Interface Description	Category	Mean Port Discards Util (In / Out)		Peak Port Discards Util (In / Out)																				
10.44.2.140	[00001] Ethernet	Non-Critical	0.00% / 0.00%		0.00% / 0.00%																				
bottom2960	[Fa0/8] FastEthernet0/8	Non-Critical	0.00% / 0.00%		0.00% / 0.00%																				
bottom2960	[Fa0/11] FastEthernet0/11	Non-Critical	0.00% / 0.00%		0.00% / 0.00%																				

10.44.2.140 [00001] Ethernet Combined																											
Date	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Avg Hour	Peak Hour	
25 September 2015	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 September 2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27 September 2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28 September 2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29 September 2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30 September 2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
01 October 2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
02 October 2015	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00	

bottom2960 [Fa0/8] FastEthernet0/8 Combined																										
Date	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Avg Hour	Peak Hour
25 September 2015	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00

bottom2960 [Fa0/11] FastEthernet0/11 Combined																										
Date	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Avg Hour	Peak Hour
25 September 2015	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00

Figure 144 Port Discards Capacity Planning Heat Map Report

Port Discards Capacity Planning Heat Map Overview

The Port Discards Capacity Planning Heat Map report provides insight into inbound and outbound utilization and throughput rate over the reporting period.

Port Discards Capacity Planning Heat Map Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Heat Map Threshold - Red (%)	Sets the threshold for mean average hourly port discards, above which discards is considered red. The default value is 70.
Heat Map Threshold - Amber (%)	Sets lower boundary of the amber discards level. The default value is 50, for mean average hourly discards, the higher boundary is set by <i>Heat Map Threshold - Red (%)</i> .
Heat Map Threshold - Green (%)	Sets lower boundary of the green utilization level. The default value is 20, for mean average hourly port discards, the higher boundary is set by <i>Heat Map Threshold - Amber (%)</i> . Port discards below this range is color coded blue.
Critical state when in red for (%) of time or more	Sets the threshold equal to or above which port discards must have been in the red zone for it to be considered as in a critical state. The default is 10%; port discards must have been in the red zone for 10% or more of the reporting period.
Critical state when in amber for (%) of time or more	Sets the threshold equal to or above which port discards must have been in the amber zone for it to be considered as in a critical state. The default is no value; the amber zone does not set the critical state of the device.
Critical state when in green for (%) of time or more	Sets the threshold equal to or above which port discards must have been in the green zone for it to be considered as in a critical state. The default is no value; the green zone does not set the critical state of the device
<i>Only list items in a Critical State</i>	When selected only devices in a critical state are included to the report table.
Draw Heat Maps for TopN	Include heat maps for the specified number of ports, sorted by those with the highest mean average port discards. Heat maps are only produced for ports with critical level of discards.
Display discards in Heat Maps	Select the type of discards to chart on the heat maps, i.e. inbound, outbound, combined .
Exclude ports that are Admin Down	Select to exclude ports that are set to admin down.
Exclude Virtual Ports	Select to exclude ports Entuity identifies as virtual ports.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 391 Port Capacity Planning - Rate Options

Name	Description
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 391 Port Capacity Planning - Rate Options

Port Discards Capacity Planning Heat Map Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. ATM Port Utilization.
<i>Description</i>	Description of the report, e.g reporting period.
<i>Prime Time</i>	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Generated</i>	Date and time the report was generated.

Table 392 Port Discards Capacity Planning Heat Map Header

Port Discards Capacity Planning Heat Map Summary

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device
<i>Interface Description</i>	Description of the port.
<i>Category</i>	Capacity category derived from Capacity Score.
<i>Mean Port Discards Util (In/Out)</i>	Mean average discards over the reporting period for all ports on the device.
<i>Peak Port Discards Util (In/Out)</i>	Peak discards over the reporting period for all ports on the device.

Table 393 Port Discards Capacity Planning Heat Map Report

Port Discards Capacity Planning Heat Map

The Heat Map displays the days in rows, the number of which is determined by the duration of the report period. The hours are displayed in columns, the number of which is definable by creating the Prime Time configuration. Each cell within the table contains the average utilization value for that hour, with a color coded background indicating its level of utilization.

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device

Table 394 Port Discards Capacity Planning Heat Map Report

Name	Description
<i>Color Coded Values</i>	Hourly sample color coded according to the Range Thresholds, detailed on the report's front page.
<i>Avg Hour</i>	Average hourly value returned over the date within the reporting period for the object.
<i>Peak Hour</i>	Highest hourly value returned over the date within the reporting period for the object.

Table 394 Port Discards Capacity Planning Heat Map Report

Port Discards Capacity Planning Trend Report

Entuity Report



Port Discards Capacity Planning

Description: Ports selected by historic or predicted port discard levels

WIPView: My Network (admin)

Sorted by: Max of 6 month projected in/outbound

Over the period 00:00 on Sun Aug 02 2015 - 00:00 on Sun Sep 27 2015

No prime time is set for this report

Printed on: 2 Oct 2015 15:44:41 BST

My Network (admin) contains 453 non-virtual ports that are operationally up. This report will only display information for the first 20 ports.

Device name	Port description	In/out discards% mean	In/out discards% 95th percentil	In/out discards% 6 month predicted
10.44.1.49	[eth1] eth1	100.0 / 0.0	100.0 / 0.0	100.0 / 0.0
stack3750	[Fa2/0/22] FastEthernet2/0/22	0.0 / 0.0	0.0 / 0.1	0.0 / 0.1
new2610	[Fa0/1] FastEthernet0/1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
idrac-galaxy	[bond0] bond0	0.0 / 0.0	0.1 / 0.0	0.0 / 0.0
stack3750	[Fa2/0/1] FastEthernet2/0/1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
new2610	[Fa0/0] FastEthernet0/0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.43	[Fa0/1] FastEthernet0/1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.43	[Fa0/0] FastEthernet0/0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
e2821.entuity.local	[Se0/0/0] Serial0/0/0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
stack3750	[Fa2/0/11] FastEthernet2/0/11	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.49	[eth0] eth0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.49	[bond0] bond0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.65	[00002] lance	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.93	[00001] Ethernet	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.116	[bond0] bond0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.2.140	[00001] Ethernet	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
10.44.1.252	[1] 1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
apcr1	[00002] lance	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
apcr2	[00002] lance	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
apcr3	[00002] lance	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0

Warning: 50% - 80%

Critical: > 80%

Page 1 of 1

Figure 145 Port Discards Capacity Planning Heat Map Report

Port Discards Capacity Planning Trend Overview

The Port Discards Capacity Planning Trend report provides a management level summary of port discards for the selected view. A trend table highlights ports with discards in warning and critical states, the definition of critical and warning states is user configurable. A critical state indicates a potential capacity problem.

Port Discards Capacity Planning Trend Options

Name	Description
<i>Please select a server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Output Format</i>	Select the output format from HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS, XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Sort by</i>	The report can be sorted by these metrics: <ul style="list-style-type: none"> ■ Mean inbound ■ Mean outbound ■ 95th Percentile inbound ■ 95th Percentile outbound ■ 6 month projected inbound. ■ 6 month projected outbound. ■ Max of mean in/outbound ■ Max of 95th Percentile in/outbound ■ Max of 6 month projected in/outbound.
<i>TopN</i>	By default limits the number of devices to the 20 reporting the highest values on the <i>Sort</i> metric.
<i>Warning Threshold (%)</i>	Sets the threshold for mean average hourly port discards, above which the port is considered in a warning state when it is also equal to or below the critical threshold. The default value is 50.
<i>Critical Threshold (%)</i>	Sets the threshold for mean average hourly port discards, above which the port is considered in a critical state. The default value is 80.
<i>Only list items in a Critical State</i>	When selected only devices with ports in a critical state are included to the report. By default it is selected.
<i>Report period</i>	Period over which the report applies, up to seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 395 Port Discards Capacity Planning Trend Report Options

Port Discards Capacity Planning Trend Report Header

Report header appears at the start of the report and identifies the report type, its scope and reporting period.

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Port Discards Capacity Planning - Trend.
<i>Description</i>	Description of the report, e.g reporting period.
<i>Prime Time</i>	Prime Time definition, i.e. the time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.
<i>Generated</i>	Date and time the report was generated.

Table 396 Port Discards Capacity Planning Trend Utilization Header

Port Discards Capacity Planning Trend

Name	Description
<i>Device Name</i>	Resolved name or the IP address of the device.
<i>Port Description</i>	Description of the port is also a hyperlink to the Port Discards Details Report.
<i>In/out discards% mean</i>	Mean inbound and outbound port discards over the reporting period for the port.
<i>In/out discards% 95th percentile</i>	Indicates the 95th percentile of inbound and outbound discards values over the reporting period, as a percentage of respectively inbound and outbound resource.
<i>In/out discards% 6 month predicted</i>	Predicts inbound and outbound port discards in 6 months time, as a percentage of respectively inbound and outbound capacity. You can also click on the values to run the Port Discard Trend report within the context of the port.

Table 397 Port Discards Capacity Planning Trend

13 Services Reports

Entuity's Service Delivery Perspective™ is an InSight Center report for managing the discipline of service delivery. These reports allow you manage Entuity service and sub-service configuration through inventory reporting and maintain high levels of service delivery through availability and event tracking reporting.

Running Services Reports

You can run Services reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Services Reports**. Entuity displays the list of available reports.

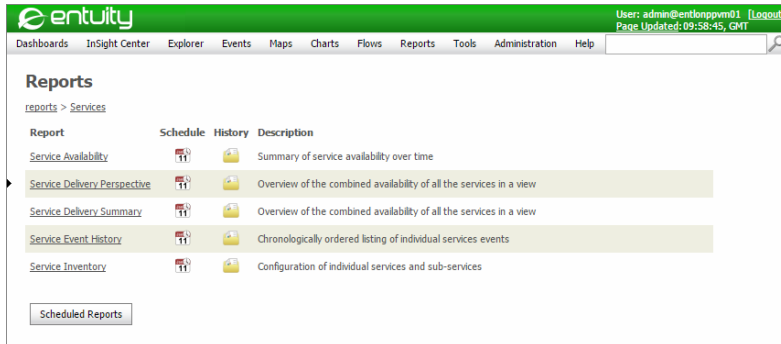


Figure 146 Services Reports

Service Availability Report

Entuity Report

Service Availability



Printed on: 26 Nov 2009 21:21:48 GMT

Description: History of the availability of selected services

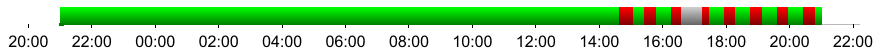
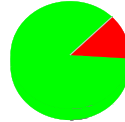
View: Regional

Over the period 21:00 on Wed Nov 25 2009 - 21:00 on Thu Nov 26 2009

Service name: VOIP

EYE server: wintest03

- Time in the 'Up' state: 20h 45m 11s (86.47%)
- Time in the 'Down' state: 3h 14m 49s (13.53%)
- Time in the 'Unknown' state: 0s (0%)

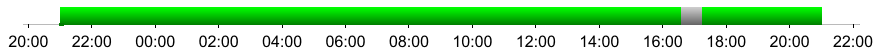
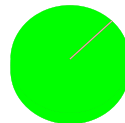


Start	End	Duration	Status	Cause
Wed Nov 25 21:00:00 GMT 2009	Thu Nov 26 14:38:56 GMT 2009	17h 38m 56s	Up	
Thu Nov 26 14:38:56 GMT 2009	Thu Nov 26 14:39:05 GMT 2009	9s	Down	Down: (e2821.entuity.local:Ping)
Thu Nov 26 14:39:05 GMT 2009	Thu Nov 26 14:56:28 GMT 2009	17m 23s	Down	Down: (e2821.entuity.local:Telnet, e2821.entuity.local:Ping)
Thu Nov 26 14:56:28 GMT 2009	Thu Nov 26 15:03:45 GMT 2009	7m 17s	Down	Down: (e2821.entuity.local:Telnet)
Thu Nov 26 15:03:45 GMT 2009	Thu Nov 26 15:26:28 GMT 2009	22m 43s	Up	
Thu Nov 26 15:26:28 GMT 2009	Thu Nov 26 15:46:28 GMT 2009	20m 0s	Down	Down: (e2821.entuity.local:Ping)
Thu Nov 26 15:46:28 GMT 2009	Thu Nov 26 16:16:27 GMT 2009	29m 59s	Up	
Thu Nov 26 16:16:27 GMT 2009	Thu Nov 26 17:26:27 GMT 2009	1h 10m 0s	Down	Down: (e2821.entuity.local:Ping)
Thu Nov 26 17:26:27 GMT 2009	Thu Nov 26 17:56:27 GMT 2009	30m 0s	Up	
Thu Nov 26 17:56:27 GMT 2009	Thu Nov 26 18:16:28 GMT 2009	20m 1s	Down	Down: (e2821.entuity.local:Ping)
Thu Nov 26 18:16:28 GMT 2009	Thu Nov 26 18:46:28 GMT 2009	30m 0s	Up	
Thu Nov 26 18:46:28 GMT 2009	Thu Nov 26 19:06:28 GMT 2009	20m 0s	Down	Down: (e2821.entuity.local:Ping)
Thu Nov 26 19:06:28 GMT 2009	Thu Nov 26 19:36:28 GMT 2009	30m 0s	Up	
Thu Nov 26 19:36:28 GMT 2009	Thu Nov 26 19:56:27 GMT 2009	19m 59s	Down	Down: (e2821.entuity.local:Ping)
Thu Nov 26 19:56:27 GMT 2009	Thu Nov 26 20:26:28 GMT 2009	30m 1s	Up	
Thu Nov 26 20:26:28 GMT 2009	Thu Nov 26 20:46:28 GMT 2009	20m 0s	Down	Down: (e2821.entuity.local:Ping)
Thu Nov 26 20:46:28 GMT 2009	Thu Nov 26 21:00:00 GMT 2009	13m 32s	Up	

Service name: Email

EYE server: wintest03

- Time in the 'Up' state: 1d 0h 0m 0s (100%)
- Time in the 'Down' state: 0s (0%)
- Time in the 'Unknown' state: 0s (0%)



Start	End	Duration	Status	Cause
Wed Nov 25 21:00:00 GMT 2009	Thu Nov 26 21:00:00 GMT 2009	1d 0h 0m 0s	Up	

Figure 147 Service Availability Report

Service Availability Report Overview

This report represents the availability of Entuity services. For each service it details the managing Entuity server, and represents the state of the service, when and the proportion of time the service state was up, down and unknown.

Service Availability Report Options

Name	Description
<i>Please select an Entuity Server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one server, or All Servers , to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a service</i>	Entuity service against which the report is to be run. From the drop down list you can select one service, or All Services , to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ From you can enter start and end date and time.

Table 398 Service Availability Report Header

Service Availability Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Service Availability.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report and the reporting period.
<i>View</i>	Entuity view against which the report was run.
<i>Over the Period</i>	Period over which the report applies.

Table 399 Device Memory Utilization TopN Frame Report Header

Service Availability Report Details

Each sector within the report details the availability of a service.

Name	Description
<i>Service Identifiers</i>	Name of the service, the Entuity server managing the service and whether events are enabled.
<i>Service Status</i>	Time and percentage of the report period the service was in each of the three states, Up, Down and Unknown. These values are graphed both chronologically over the reporting period and represented as proportions of the reporting period through a pie chart.
<i>Start</i>	The time of the start of service status change, or the start of the reporting period.

Table 400 Service Availability Report Details

Name	Description
<i>End</i>	The time of the end of service status change, or the end of the reporting period.
<i>Duration</i>	Date and time the event was raised.
<i>Status</i>	Indicates the status of the service, e.g. Up, Down, Unknown.
<i>Cause</i>	Details of the cause of the service status, e.g. the name of the service, its status and the cause of its failure (when the status is down).

Table 400 Service Availability Report Details

Service Delivery Summary Report

Entuity Report

Service Delivery Summary



Printed on: 25 Nov 2009 17:26:33 GMT

Description: Overview of the combined availability of all the services in a view

View: Regional

Over the period 00:00 on Sun Oct 25 2009 - 00:00 on Wed Nov 25 2009

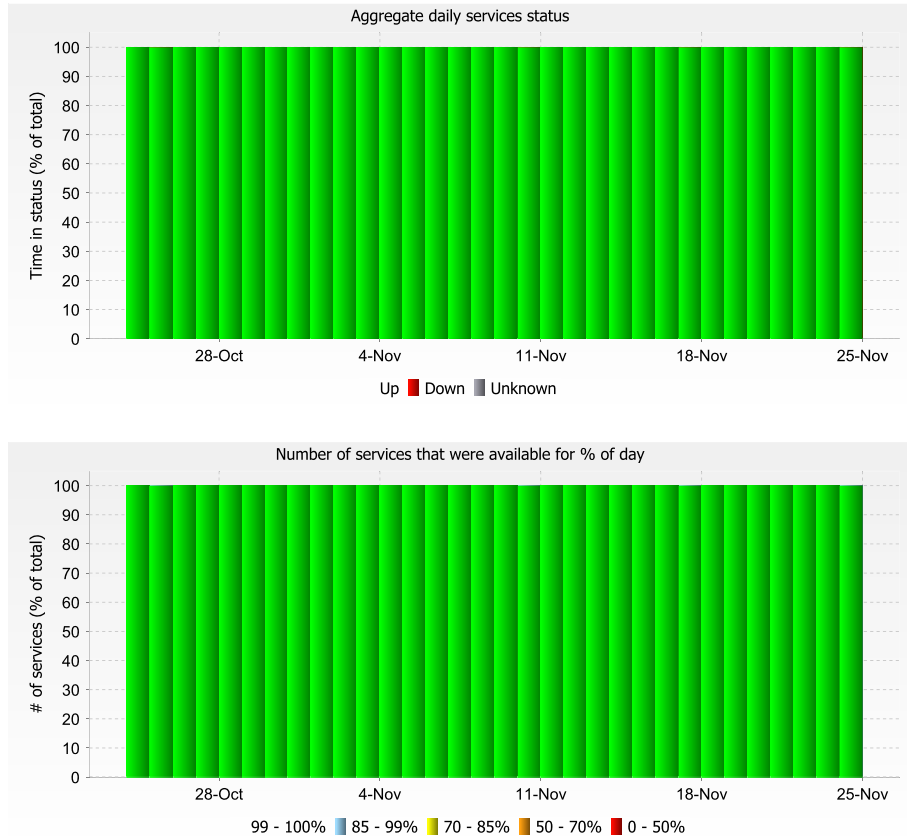


Figure 148 Service Delivery Summary Report

Service Delivery Summary Report Overview

The Service Delivery Summary aggregates the behavior of all the services in a chosen view and displays, by default, a summary of the previous thirty-one days.

Service Delivery Summary Report Options

Name	Description
<i>Please select an Entuity Server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a View</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
Report Period	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ From you can enter start and end date and time.

Table 401 Service Delivery Summary Report Header

Service Delivery Summary Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Service Availability.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report and the reporting period.
<i>View</i>	Entuity view against which the report was run.
<i>Over the Period</i>	Period over which the report applies.

Table 402 Service Delivery Summary Report Header

Service Delivery Summary Report Details

Name	Description
<i>Aggregate Daily Services Status</i>	Aggregates the daily service status within the All Objects view for, by default, the previous thirty-one days.
Number of services that were available for% of day	Entuity identifies the level of availability for each service on each day of the reporting period. This perspective groups these services by percentage of availability into one of five groups, e.g. below 50%, 50%-70%, and represents them through a stack chart.

Table 403 Service Delivery Summary Details

Service Event History Report

Entuity Report

Services Event Audit Log



Printed on: 17 Nov 2009 16:11:50 EST

Description: Chronologically ordered listing of individual services events

View: Regional

Over the period 00:00 on Sat Nov 07 2009 - 00:00 on Tue Nov 17 2009

Event type	Source	Time	Status	Details
Service Down	JD2	09/11/09 10:27	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD4-sub-sub	09/11/09 10:27	Closed	Status=Down, cause : Down: (BOSTON-ROUTER, 192.168.141.2)
Service Down	JD3-sub	09/11/09 10:27	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	09/11/09 20:13	Closed	Status=Down, cause : Down: (JD3-sub) Unknown: (c2821.London to NY Jitter)
Service Down	JD2	09/11/09 20:16	Closed	Status=Down, cause : Down: (JD3-sub) Unknown: (c2821.London to NY Jitter)
Service Down	JD3-sub	09/11/09 20:50	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	09/11/09 20:50	Closed	Status=Down, cause : Down: (JD3-sub) Unknown: (c2821.London to NY Jitter)
Service Down	JD3-sub	09/11/09 20:53	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	09/11/09 20:53	Closed	Status=Down, cause : Down: (JD3-sub) Unknown: (c2821.London to NY Jitter)
Service Down	JD3-sub	10/11/09 05:33	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	10/11/09 05:33	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD2	10/11/09 05:36	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD3-sub	10/11/09 05:36	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD3-sub	10/11/09 05:39	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	10/11/09 05:39	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD2	10/11/09 05:42	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD3-sub	10/11/09 05:42	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	10/11/09 06:47	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD3-sub	10/11/09 06:47	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD3-sub	10/11/09 06:49	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	10/11/09 06:49	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD2	10/11/09 08:02	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD3-sub	10/11/09 08:02	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD3-sub	10/11/09 08:05	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	10/11/09 08:05	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD2	10/11/09 09:19	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD3-sub	10/11/09 09:19	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD3-sub	10/11/09 09:21	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	10/11/09 09:21	Closed	Status=Down, cause : Down: (JD3-sub)
Service Down	JD3-sub	10/11/09 18:31	Closed	Status=Down, cause : Down: (BOSTON-ROUTER: [Et0] Ethernet0, BOSTON-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0, CHICAGO-ROUTER: [Se0] Serial0)
Service Down	JD2	10/11/09 18:31	Closed	Status=Down, cause : Down: (JD3-sub)

Figure 149 Service Event History Report

Service Event History Report Overview

Service Event History Report, presents for the selected view all service related events for the time period. You can use this report when performing an audit of service performance.

Service Event History Report Options

Name	Description
<i>Server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a View</i>	From the drop down list you can select one view to run the report against.
Maximum displayed events	Maximum number of events to include to the report, default 1000.
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 404 Service Event History Report Options

Service Event History Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Device Reachability.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Servers</i>	Number of servers in the view.
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Identifies the reporting period.

Table 405 Service Event History Report Header

Service Event History Report Details

Name	Description
<i>Event Type</i>	The type of service event, e.g Service Down.
<i>Source</i>	The source of the event.
<i>Time</i>	Date and time the event was raised.
<i>Status</i>	Indicates the current status of the event, e.g. Open, Closed.

Table 406 Service Event History Report Details

Name	Description
Details	Details of the event, e.g. the status of the service and the cause of its failure.

Table 406 Service Event History Report Details

Service Inventory Report

Entuity Report

Service Inventory



Printed on: 26 Nov 2009 19:27:37 GMT

Description: Configuration of individual services and sub-services

View: Regional

VOIP on wintest03 (Raises events)

Created Mon Oct 19 14:29:58 BST 2009

Components: (And)

Device: bottom3550

Device: c2821.entuity.local

IP SLA Echo: Ping

Email on wintest03 (Raises events)

Created Mon Oct 19 15:44:14 BST 2009

Components: (Or)

Device: c2821.entuity.local

Application: telnet on 10.44.1.5 on lonsw01.entuity.local

Email on COMPRESSOR (Raises events)

Created Wed Oct 21 14:44:18 BST 2009

Components: (And)

Figure 150 Service Inventory Report

Service Inventory Report Overview

This report provides an inventory of each service within the specified ambit of the report. It is useful when maintaining the Entuity services you have configured and tracking their location. For each reported service, a section in the report lists which Entuity server monitors it, when it was created, the logic applied when raising events and the managed objects that comprise the service.

Service Inventory Report Options

Name	Description
<i>Server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>View</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Service</i>	From the drop down list Entuity displays the available services. You can run the report against one or All services.

Table 407 Service Inventory Report Options

Service Inventory Report Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. Service Inventory.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report is applied.

Table 408 Service Inventory Report Header

Service Inventory Report

Name	Description
<i>Service Identifiers</i>	Name of the service, the Entuity server managing the service and whether events are enabled.
<i>Created</i>	Date and time Entuity created the service.
<i>Components</i>	Identifies the logical operator applied to the status of the components with in the service. Also listed is the type of each component, e.g. device, application, and its identifier.

Table 409 Service Inventory Report

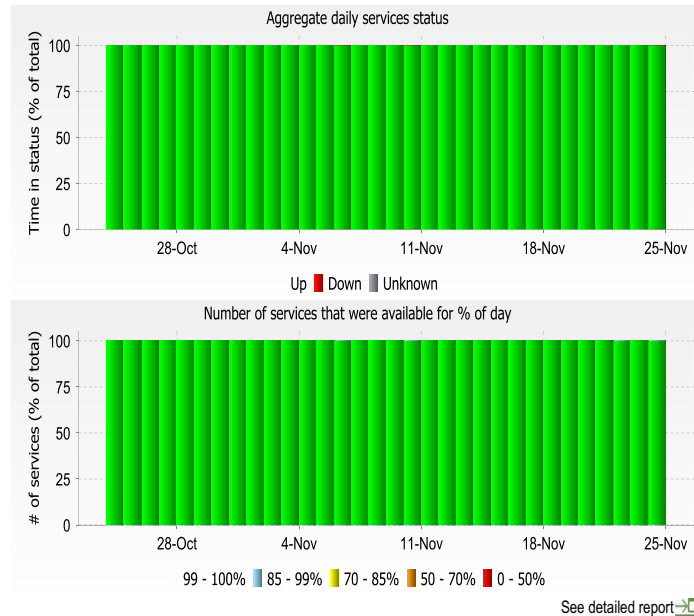
Service Delivery Perspective

Service Delivery Perspective (TM)

Daily Status Summary of Services

View: Regional

Over the period 00:00 on Tue Oct 25 2012 - 00:00 on Sun Nov 25 2012



Network Services in the Enterprise

The Services module within Entuity enables enterprises to map network infrastructure components, IP services, and traffic quality measurements directly to user-defined services that have direct and transparent impact on services and operations. Services can be modeled in Entuity to include the many network components

Figure 151 Service Delivery Perspective

Service Delivery Perspective Overview

The Entuity Services module enables you to map network infrastructure components, IP services, and traffic quality measurements directly to user-defined services that have direct and transparent impact on business services and operations. Services can be modeled in Entuity to include the many network components including devices, ports, applications and IP SLA tests for reachability and correct operation. Including all the dependent infrastructure components and IP services, Entuity automates monitoring of the business value of networks directly to minimize any guesswork and manually assessing the impact of network misbehavior on businesses.

Information about availability of key services such as email, data center connectivity, VoIP services and resilient links to satellite offices and the Internet allows IT and business managers to quickly assess the quality of services that the IT is providing to its business users.

Report Guide

1. Service Delivery Summary Report

This redisplay the information in the Service D a form suitable for printing.

2. Service Availability Report

This report displays the various states (Up/D service can have and the periods of time th each state. The report can either include : nominated view or focus on one service by nar a multi-server mode all the services with the sa view are shown separately. For each service t in each state is displayed along with a graf tabular textual list of states and the correspor that state.

3. Service Event History Report

This report displays the history of service relate

4. Service Inventory Report

This report lists all the services in the selected settings and component memberships.

The Service Delivery Perspective aggregates the behavior of all the services in a chosen view and displays, by default, a summary of the previous thirty-one days.

Service Delivery Perspective Options

When you call this perspective from the web UI, by selecting **InSight Center > Service Delivery Perspective** or **Reports > View Reports > Services > Service Delivery Perspective** you can use the Report Options to amend the perspective defaults.

Name	Description
<i>Server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a View</i>	From the drop down list you can select one view to run the report against.
Maximum displayed events	Maximum number of events to include to the report, default 1000.
<i>Report period</i>	Period over which the report applies. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.

Table 410 Service Event History Report Options

Service Delivery Perspective Details

Name	Description
<i>Aggregate Daily Services Status</i>	Aggregates the daily service status within the selected view for, by default, the previous thirty-one days.
Number of services that were available for% of day	Entuity identifies the level of availability for each service on each day of the reporting period. This perspective groups these services by percentage of availability into one of five groups, e.g. below 50%, 50%-70%, and represents them through a stack chart.

Table 411 Service Delivery Perspective Details

14 User Defined Perspective

You can create and configure your own custom perspectives for ultimate versatility, showing and graphing the metrics in which you are interested and linking to the reports you consider appropriate. Contact your Entuity representative when you want to develop a perspective.

Accessing User Defined Reports

You can access User Defined reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **User Defined**. Entuity displays the list of available reports.

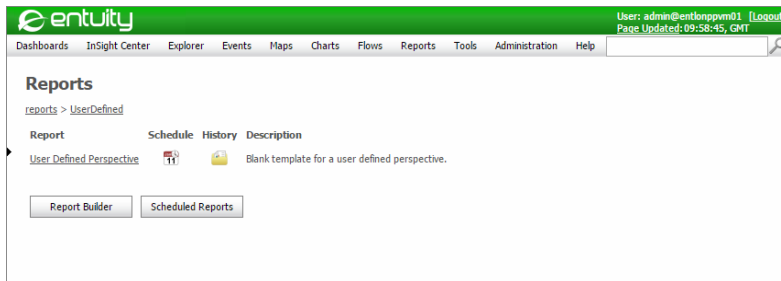


Figure 152 User Defined Perspective

Entuity includes a template as a place holder for your own perspective.

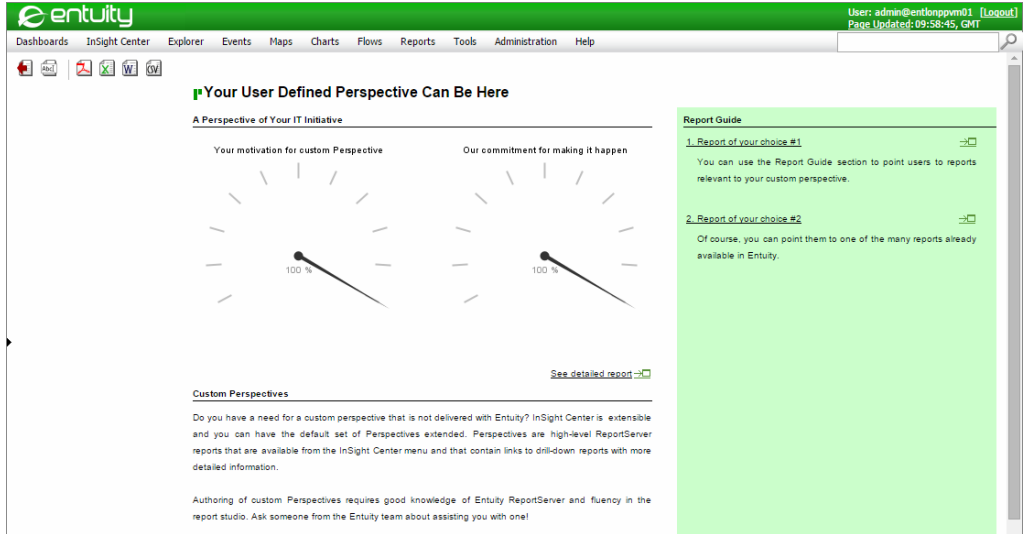


Figure 153 User Defined Perspective Template

15 Virtualization Reports

This set of reports provides access to the data available through Entuity's management of virtualization machines.

Running Virtualization Reports

You can run these reports from the web interface:

- 1) Click **Reports**. Entuity displays the Reports Home page.
- 2) Click **Virtualization Reports**. Entuity displays the list of available reports.

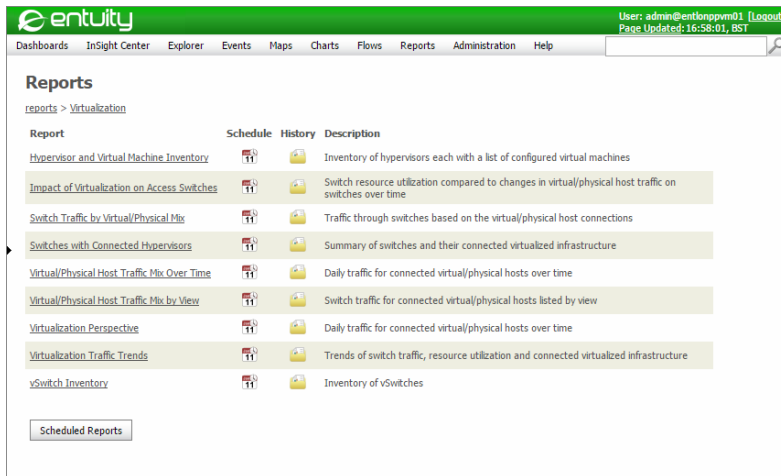


Figure 154 Virtualization Reports

Hypervisor and Virtual Machine Inventory Report

Entuity Report

Connected Hypervisors by vendor



Printed on: 19 Jun 2011 17:25:08 BST

Description: Summary of switches and their connected virtualized infrastructure

View: Regional

Sorted by: Total Hypervisors

Switch	Location	Physical Ports	# Connected Hypervisors		
			VMware	Oracle	Hyper-V
c2900		12	0	1	0
ionsw01		49	1	0	0
ionsw02	Development cabinet	12	1	0	0

Figure 155 Hypervisor and Virtual Machine Inventory Report

Hypervisor and Virtual Machine Inventory Overview

Inventory of hypervisors each with a list of configured virtual machines

Hypervisor and Virtual Machine Inventory Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a hypervisor</i>	Select the hypervisor on which you want to run the report, which can be All Hypervisors or a particular hypervisor.

Table 412 Hypervisor and Virtual Machine Inventory Options

Hypervisor and Virtual Machine Inventory Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 413 Hypervisor and Virtual Machine Inventory Header

Hypervisor and Virtual Machine Inventory

Details of each hypervisor are included to the report on a separate page. VMs on Oracle hypervisors that are down Entuity groups together as Unassigned.

Name	Description
Hypervisor Details	
<i>Name</i>	Hypervisor name.
<i>Platform</i>	VM Platform
<i>Product</i>	Full name of the virtualization product, which may include its name, version and build number.
<i>Version</i>	Version number of the virtualization product.
<i>Memory</i>	Total memory available to the hypervisor.
<i>Build</i>	Build number of the virtualization product.
<i>CPUs</i>	Total number of CPUs available to the hypervisor.
<i>VM Count</i>	Current number of virtual machines on the hypervisor.
Virtual Machine Details	
<i>VM Name</i>	Virtual Machine Name.
<i>Memory (MB)</i>	Total memory assigned to the VM.
<i>Guest OS</i>	Details of the operating system running on the VM.
<i>Configuration File</i>	Primary configuration file for the virtual machine.

Table 414 Hypervisor and Virtual Machine Inventory Summary

Impact of Virtualization on Access Switches Report

Entuity Report

Impact of Virtualization on Access Switches



Switch: Ionsw02

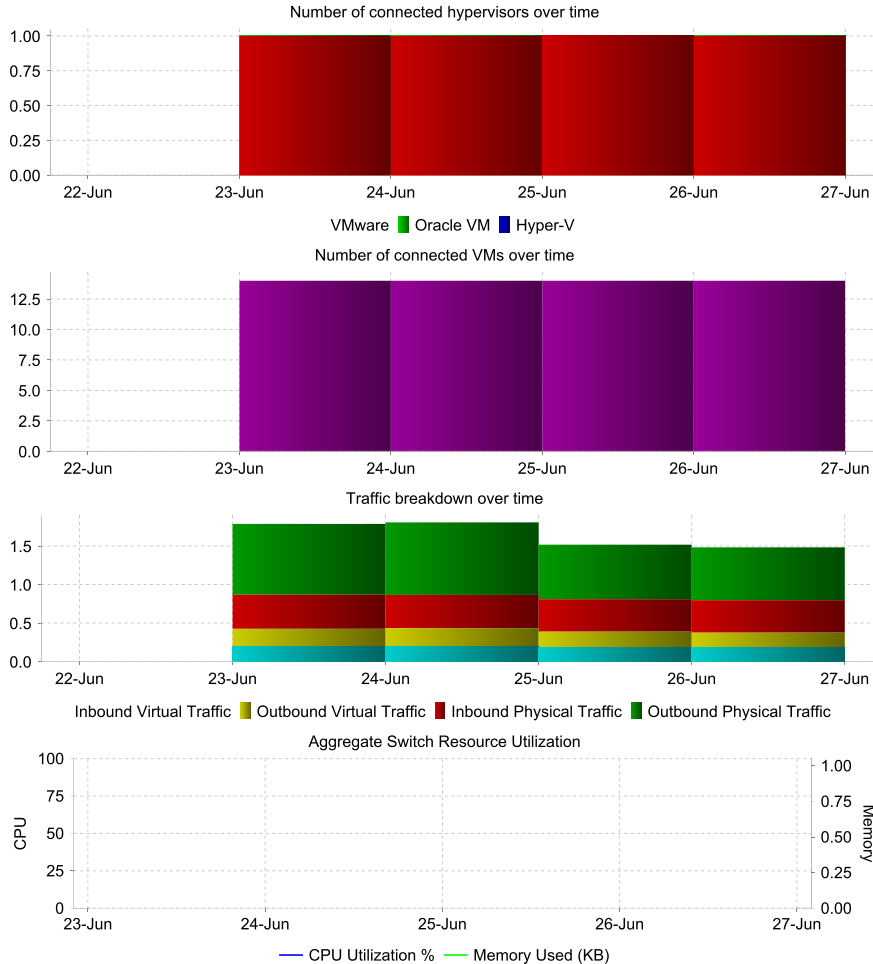


Figure 156 Impact of Virtualization on Access Switches Report

Impact of Virtualization on Access Switches Overview

For each switch, four charts plot its number of hypervisors (by vendor), number of virtual machines, physical and virtual traffic and resource utilization. All charts use the same time-frame, allowing you to correlate changes across all charts.

Impact of Virtualization on Access Switches Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a device</i>	Select the device on which you want to run the report, which can be All Devices or a particular hypervisor.
<i>Report period</i>	Period over which the report applies, by default seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 415 Impact of Virtualization on Access Switches Options

Impact of Virtualization on Access Switches Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>View</i>	Entuity view against which the report was run.

Table 416 Impact of Virtualization on Access Switches Header

Impact of Virtualization on Access Switches

Details of each switch are included to the report on a separate page.

Name	Description
Switch	Name of switch.
	Number of connected hypervisors over time

Table 417 Impact of Virtualization on Access Switches Summary

Name	Description
Number of connected hypervisors over time	Stack chart provides a daily breakdown of the total number of hypervisors linked to the switch.
Number of connected VMs over time	Stack chart provides a daily breakdown of the total number of VMs, by type, linked to the switch.
Traffic breakdown over time	Stack chart provides a daily breakdown of traffic over the report period, graphing Inbound Virtual Traffic, Outbound Virtual Traffic, Inbound Physical Traffic and Outbound Physical Traffic.
<i>Aggregate Switch Resource Utilization</i>	Line chart graphs switch CPU Utilization and memory usage over the reporting period.

Table 417 Impact of Virtualization on Access Switches Summary

Switch Traffic by Virtual/Physical Mix Report

Entuity Report

Switch Traffic by Virtual/Physical Mix



Description: Traffic through switches based on the virtual/physical host connections

Over the period 00:00 on Mon Jun 27 2011 - 00:00 on Tue Jun 28 2011

No prime time is set for this report

Printed on: 28 Jun 2011 00:01:37 BST

View: Regional

Sorted by: Switch name

Switch	Location	Physical Ports	VM Traffic (In/Out Bytes)	Physical Host Traffic (In/Out Bytes)	VM Traffic % of Total (In / Out)
10.44.2.98	**JFS1B-AT46**	169	0 / 0	0 / 0	0.0 / 0.0
10.66.25.121	Simulator	27	0 / 0	368.1G / 365.2G	0.0 / 0.0
bottom2960	Server Room - Far Cabinet	26	0 / 0	3.2M / 362.7M	0.0 / 0.0
bottom3550	Entuity Test Room	26	0 / 0	0 / 0	0.0 / 0.0
c2950		24	0 / 0	88.3M / 1.5G	0.0 / 0.0
c3560	Entuity Test Room	26	0 / 0	0 / 0	0.0 / 0.0
HPCOL1		1	0 / 0	0 / 0	0.0 / 0.0
lonsw01		48	2.9G / 2.3G	45.4G / 54.3G	6.0 / 4.1
lonsw02	Development cabinet	12	2.6G / 2.9G	3.9G / 4.8G	39.8 / 37.1
lonsw03		48	0 / 0	18.2G / 21.4G	0.0 / 0.0
lonsw04	Hot House	15	0 / 0	0 / 0	0.0 / 0.0
lonsw05	Server Room - Server Rack	26	0 / 0	18.3G / 23G	0.0 / 0.0
radium	Escritorio Central - 15 andas	91	0 / 0	0 / 0	0.0 / 0.0
top3550	Server Room - Far Cabinet	26	0 / 0	0 / 0	0.0 / 0.0

Figure 157 Switch Traffic by Virtual/Physical Mix Report

Switch Traffic by Virtual/Physical Mix Overview

Table of per-switch traffic volume totals through switches based on the virtual/physical host connections.

Switch Traffic by Virtual/Physical Mix Options

Name	Description
Output Format	Available output formats for the report, i.e. HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a sort option</i>	Select the column on which you want to sort the results.

Table 418 Hypervisor and Virtual Machine Inventory Options

Name	Description
<i>Report period</i>	Period over which the report applies, by default the previous twenty-four hours. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 418 Hypervisor and Virtual Machine Inventory Options

Switch Traffic by Virtual/Physical Mix Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Sorted by</i>	Column on which the results are sorted.

Table 419 Switch Traffic by Virtual/Physical Mix Header

Switch Traffic by Virtual/Physical Mix

Each row in the table provides a breakdown of virtual and physical traffic.

Name	Description
<i>Switch</i>	Name or IP address Entuity uses to manage the device.
<i>Location</i>	Description of device location.
<i>Physical Ports</i>	Number of physical ports on the switch.
<i>VM Traffic (In/Out Bytes)</i>	Inbound and outbound virtual traffic handled by the switch over the reporting period.
<i>Physical Host Traffic (In/Out Bytes)</i>	Inbound and outbound physical traffic handled by the switch over the reporting period.
<i>VM Traffic % of Total (In / Out)</i>	Inbound and outbound virtual traffic handled by the switch over the reporting period, as a percentage of its total traffic throughput.

Table 420 Switches with Connected Hypervisors Summary

Switches with Connected Hypervisors Report

Entuity Report

Switches with Connected Hypervisors



Printed on: 27 Jun 2011 21:51:13 BST

Description: Summary of switches and their connected virtualized infrastructure

View: Regional

Sorted by: Total Hypervisors

Switch	Location	Physical Ports	# Connected Hypervisors		
			VMware	Oracle	Hyper-V
ionsw01		48	1	0	0
ionsw02	Development cabinet	12	1	0	0
c2900		12	0	1	0
ionsw01		48	1	0	0

Figure 158 Switches with Connected Hypervisors Report

Switches with Connected Hypervisors Overview

Summary of switches, their physical port counts and their connected virtualized infrastructure.

Switches with Connected Hypervisors Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a sort option</i>	Select the column on which you want to sort the results.

Table 421 Switches with Connected Hypervisors Options

Switches with Connected Hypervisors Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.

Table 422 Switches with Connected Hypervisors Header

Name	Description
<i>View</i>	Entuity view against which the report was run.
<i>Over the period</i>	Start and end dates and times over which the report is run.
<i>Sorted by</i>	Column on which the results are sorted.

Table 422 Switches with Connected Hypervisors Header

Switches with Connected Hypervisors

Name	Description
<i>Switch</i>	Name or IP address Entuity uses to manage the device.
<i>Location</i>	Description of device location.
<i>Physical Ports</i>	Number of physical ports on the switch.
<i>VMware</i>	Number of VMware hypervisors connected to the switch.
<i>Oracle</i>	Number of Oracle VM hypervisors connected to the switch
<i>Hyper-V</i>	Number of Hyper-V hypervisors connected to the switch

Table 423 Switches with Connected Hypervisors Summary

Virtual/Physical Host Traffic Mix by View Report

Entuity Report

Virtual/Physical Host Traffic Mix by View



Description: Switch traffic for connected virtual/physical hosts listed by view

Over the period 00:00 on Mon Jun 20 2011 - 00:00 on Mon Jun 27 2011

No prime time is set for this report

Printed on: 27 Jun 2011 23:44:36 BST

Sorted by: View

View	Connected Hypervisors	VMs	VM Traffic (In/Out bytes)	Physical Host Traffic (In/Out bytes)	VM Traffic % of Total (In / Out)
Big View	2	35	81.6G /82.1G	1.5T /1.8T	5.1 /4.4
Regional	4	82	94.9G /95.2G	2.7T /3.1T	3.4 /3.0

Figure 159 Virtual/Physical Host Traffic Mix by View Report

Virtual/Physical Host Traffic Mix by View Overview

Table of per-view traffic volume totals through switches based on the virtual/physical host connections. Note that only views with connected hypervisors are included.

Virtual/Physical Host Traffic Mix by View Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a sort option</i>	Select the column on which you want to sort the results.
<i>Report period</i>	Period over which the report applies, by default seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 424 Hypervisor and Virtual Machine Inventory Options

Virtual/Physical Host Traffic Mix by View Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.

Table 425 Virtual/Physical Host Traffic Mix by View Header

Name	Description
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 425 Virtual/Physical Host Traffic Mix by View Header

Virtual/Physical Host Traffic Mix by View

Name	Description
<i>View</i>	Name of the view.
<i>Connected Hypervisors</i>	Number of connected hypervisors.
<i>VMs</i>	Number of VMs on the hypervisors.
<i>VM Traffic (In/Out Bytes)</i>	Inbound and outbound virtual traffic handled by the switches in the view over the reporting period.
<i>Physical Host Traffic (In/Out Bytes)</i>	Inbound and outbound physical traffic handled by the switches in the view over the reporting period.
<i>VM Traffic % of Total (In / Out)</i>	Inbound and outbound virtual traffic handled by the switches in the view over the reporting period, as a percentage of its total traffic throughput.

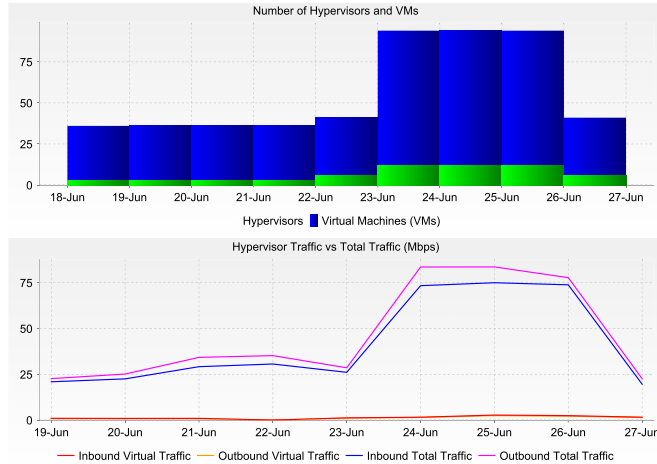
Table 426 Virtual/Physical Host Traffic Mix by View Summary

Virtualization Perspective Report

Virtualization Perspective (TM)

Virtual/Physical Host Traffic Mix

View: Regional Over the period 00:00 on Sun Jun 19 2011 - 00:00 on Mon Jun 27 2011



Visualizing and Evaluating the Impact of Hypervisors and Virtual Machines in Enterprise Data Centers

Entuity currently manages VMware ESXi, Oracle VM and Microsoft Hyper-V servers, accessing platform and VM information through their native APIs. Entuity correlates this information with the inventory, topology and performance data it collects from the physical network. This perspective, and its related suite of reports, allows users to understand how a virtualized infrastructure affects their network. For example, virtualization reports identify how virtualized resources are distributed throughout the network, how their numbers evolve over time, and how they affect the traffic and performance figures of physical network devices and the links between them.

Report Guide

1. [Switches with Connected Hypervisors](#)
Summary of switches, their physical port counts and their connected virtualized infrastructure.
2. [Hypervisor and Virtual Machine Inventory](#)
Inventory of hypervisors each with a list of configured virtual machines.
3. [Impact of Virtualization on Access Switches](#)
For each switch, four charts plot its number of hypervisors (by vendor), number of virtual machines, physical and virtual traffic and resource utilization. All charts use the same time-frame, allowing you to correlate changes across all charts.
4. [Switch Traffic by Virtual/Physical Mix](#)
Table of per-switch traffic volume totals through switches based on the virtual/physical host connections.
5. [Virtual/Physical Host Traffic Mix by View](#)
Table of per-view traffic volume totals through switches based on the virtual/physical host connections. Note that only views with connected hypervisors are included.
6. [Virtual/Physical Host Traffic Mix Over Time](#)
Daily traffic for connected virtual/physical hosts over time. This redisplayes the information in the Virtualization Perspective in a form suitable for printing.
7. [Virtualization Traffic Trends](#)
Trends of switch traffic, resource utilization and connected virtualized infrastructure.

Figure 160 Virtualization Perspective Report

Virtualization Perspective Overview

Entuity currently manages VMware ESXi, Oracle VM and Microsoft Hyper-V servers, accessing platform and VM information through their native APIs. Entuity correlates this information with the inventory, topology and performance data it collects from the physical network. This perspective, and its related suite of reports, allows users to understand how a virtualized infrastructure affects their network. For example, virtualization reports identify how virtualized resources are distributed throughout the network, how their numbers evolve over time, and how they affect the traffic and performance figures of physical network devices and the links between them.

Virtualization Perspective Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.

Table 427 Hypervisor and Virtual Machine Inventory Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report period</i>	Period over which the report applies, up to 31 days. The default is one month. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 427 Hypervisor and Virtual Machine Inventory Options

Virtualization Perspective Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 428 Virtualization Perspective Header

Virtualization Perspective

Virtualization Perspective includes access to seven virtualization reports through links in the report Guide panel. The Virtual/Physical Host Traffic Mix chart is available in a print friendly format as the Virtual/Physical Host Traffic Mix Over Time report.

Name	Description
<i>Number of Hypervisors and VMs over time</i>	A daily breakdown of hypervisors and virtual machines.
<i>VM Traffic (Mbps) vs Total Traffic (Mbps) over time</i>	Charts inbound and outbound VM traffic (Mbps), alongside total inbound and outbound traffic (Mbps) over the reporting period.

Table 429 Virtual/Physical Host Traffic Mix Summary

Virtualization Traffic Trends Report

Entuity Report

Virtualization Traffic Trends



Description: Trends of switch traffic, resource utilization and connected virtualized infrastructure

Over the period 23:00 on Sun Jun 26 2011 - 23:00 on Mon Jun 27 2011

No prime time is set for this report

Printed on: 27 Jun 2011 23:51:21 BST

View: Regional

Sorted by: Switch name

Switch	Percentage change compared to the previous report period					
	Traffic (In/Out)	Switch CPU	Switch memory	# Connected Hypervisors	# Connected VMs	# Connected Physical Servers
10.44.2.98	0.0 / 0.0	0.0	0.0	0.0	0.0	0.0
10.66.25.121	-2.1 / 1.0	0.0	0.0	0.0	0.0	0.0
bottom2960	-10.4 / 3.5	-0.5	0.0	0.0	0.0	0.0
bottom3550	0.0 / 0.0	-4.2	0.1	0.0	0.0	0.0
c2950	-60.1 / -0.6	-3.1	0.0	0.0	0.0	0.0
c3560	0.0 / 0.0	-1.4	-0.0	0.0	0.0	0.0
HPCOL1	0.0 / 0.0	0.0	0.0	0.0	0.0	0.0
ionsw01	22.0 / 102.2	0.0	0.0	0.0	0.0	0.0
ionsw02	-0.5 / -1.7	0.0	0.0	0.0	0.0	0.0
ionsw03	-28.5 / -47.1	0.0	0.0	0.0	0.0	0.0
ionsw04	0.0 / 0.0	0.0	0.0	0.0	0.0	0.0
ionsw05	0.3 / 1.3	-2.9	0.0	0.0	0.0	0.0
radium	0.0 / 0.0	0.0	0.0	0.0	0.0	0.0
top3550	0.0 / 0.0	-2.0	0.0	0.0	0.0	0.0

Figure 161 Virtualization Traffic Trends Report

Virtualization Traffic Trends Overview

Trends of switch traffic, resource utilization and connected virtualized infrastructure.

Virtualization Traffic Trends Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a sort option</i>	Select the column on which you want to sort the results.

Table 430 Hypervisor and Virtual Machine Inventory Options

Name	Description
<i>Report period</i>	Period over which the report applies, by default the previous twenty-four hours. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 430 Hypervisor and Virtual Machine Inventory Options

Virtualization Traffic Trends Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.
<i>Sorted by</i>	Column on which the results are sorted.

Table 431 Virtualization Traffic Trends Header

Virtualization Traffic Trends

Identifies changes in key metrics when compared to the previous reporting period.

Name	Description
<i>Switch</i>	Name or IP address Entuity uses to manage the device.
Percentage change compared to the previous report period	
<i>Physical Host Traffic (In/Out Bytes)</i>	Inbound and outbound physical traffic handled by the switch over the reporting period.
<i>Switch CPU</i>	Percentage change in switch CPU utilization.
<i>Switch memory</i>	Percentage change in switch memory utilization.
<i># Connected Hypervisors</i>	Percentage change in number of hypervisors connected to the switch.
<i># Connected VMs</i>	Percentage change in number of VMs connected to the switch.

Table 432 Switches with Connected Hypervisors Summary

Name	Description
# Connected Physical Servers	Percentage change in number of VM platforms connected to the switch.

Table 432 Switches with Connected Hypervisors Summary

vSwitch Inventory Report

Entuity Report

vSwitch Inventory



Printed on: 15 Nov 2011 11:32:22 GMT

Description: Inventory of vSwitches

View: Regional

VM Platform: blade

vSwitch: vSwitch0		Port Count: 43 (Maximum = 64)	
Virtual Port Group: Management Network		VLAN: No VLAN	
Connection	vNIC	Hypervisor	
MAC: b8:ac:6f:82:5e:c9			
Virtual Port Group: Physical Adapters		VLAN: N/A	
vNIC	Hypervisor	Switch Port	Switch Name
vmnic0	blade.entuity.local		
vmnic1	blade.entuity.local		
Virtual Port Group: VM Network		VLAN: No VLAN	
Connection	vNIC	Hypervisor	
MAC: 00:0c:29:d7:a1:6b (skyline)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:e8:74:8b (oracle-em12c)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:58:27:fc (rh64mk)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:15:79:48 (npe-testing)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:54:5a:15 (wintest08)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:27:4b:6d (NFAEE)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:02:1b:4e (NFAEE-Lin)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:cc:ba:d9 (remedy)	Network adapter 1	blade.entuity.local	
MAC: 00:50:56:88:00:0b (Jeff?s iSCSI NAS)	Network adapter 1	blade.entuity.local	
MAC: 00:50:56:88:00:0a (Jeff?s vCenter 4.1)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:bb:98:4b (bmc-iiws)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:70:29:b5 (bmc-bppm)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:afd:c:d9 (winLicense_mk)	Network adapter 1	blade.entuity.local	
MAC: 00:50:56:88:00:09 (RH-PP)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:c5:2c:92 (pvrk)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:2d:fd:ab (win2k8s-ce)	Network adapter 1	blade.entuity.local	
MAC: 00:0c:29:d9:83:18 (vcenter5)	Network adapter 1	blade.entuity.local	

Figure 162 vSwitch Inventory Report

vSwitch Inventory Overview

Inventory of vSwitches by their VM Platform. This report provides a breakdown of vSwitch inventory; their virtual port group's management network, physical adapters and VM network.

vSwitch Inventory Options

Name	Description
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Please select a hypervisor</i>	Select the hypervisor on which you want to run the report, which can be All Hypervisors or a particular hypervisor.

Table 433 vSwitch Inventory Options

vSwitch Inventory Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. vSwitch Inventory.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>View</i>	Entuity view against which the report was run.

Table 434 vSwitch Inventory Header

vSwitch Inventory

Details of each hypervisor are included to the report on a separate page. VMs on Oracle hypervisors that are down Entuity groups together as Unassigned.

Name	Description
Hypervisor Details	
<i>Name</i>	Hypervisor name.
<i>Platform</i>	VM Platform
Product	Full name of the virtualization product, which may include its name, version and build number.
<i>Version</i>	Version number of the virtualization product.
<i>Memory</i>	Total memory available to the hypervisor.
Build	Build number of the virtualization product.
CPUs	Total number of CPUs available to the hypervisor.
VM Count	Current number of virtual machines on the hypervisor.

Table 435 vSwitch Inventory Summary

Name	Description
Virtual Machine Details	
VM Name	Virtual Machine Name.
Memory (MB)	Total memory assigned to the VM.
Guest OS	Details of the operating system running on the VM.
Configuration File	Primary configuration file for the virtual machine.

Table 435 vSwitch Inventory Summary

Virtual/Physical Host Traffic Mix Over Time Report

Entuity Report

Virtual/Physical Host Traffic Mix Over Time



Description: Daily traffic for connected virtual/physical hosts over time

Over the period 00:00 on Mon Jun 20 2011 - 00:00 on Mon Jun 27 2011

No prime time is set for this report

Printed on: 27 Jun 2011 23:46:20 BST

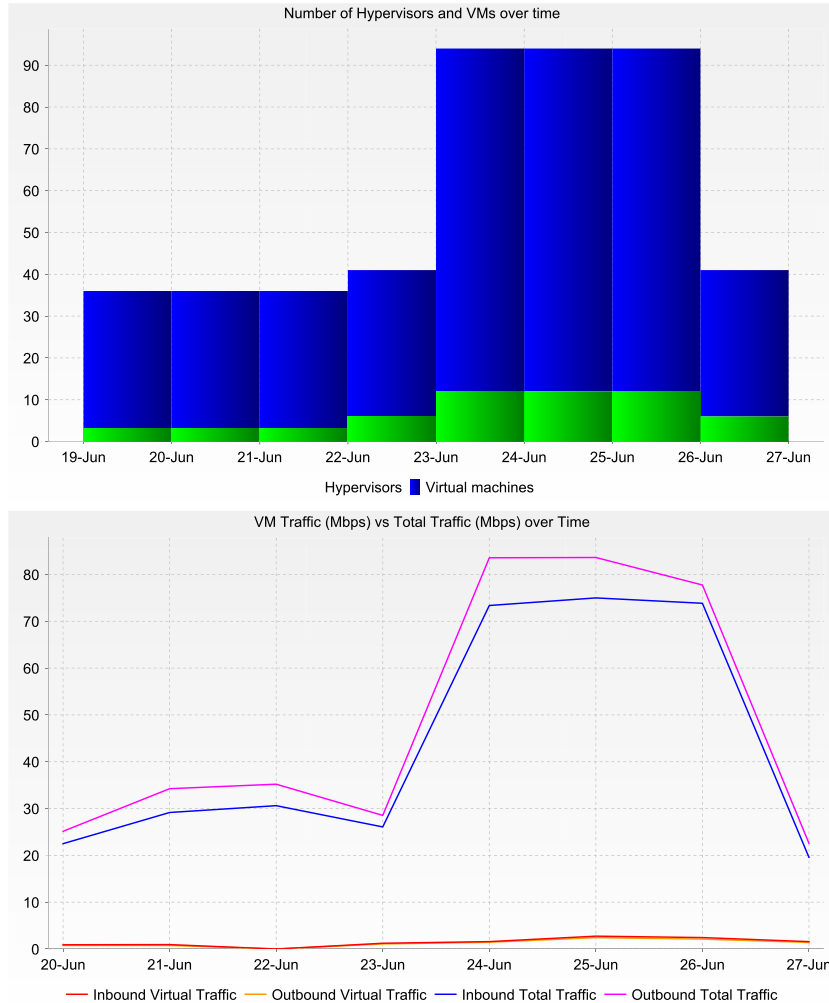


Figure 163 Virtual/Physical Host Traffic Mix Over Time Report

Virtual/Physical Host Traffic Mix Over Time Overview

Daily traffic for connected virtual/physical hosts over time. This displays the information in the Virtualization Perspective in a form suitable for printing.

Virtual/Physical Host Traffic Mix Over Time Options

Name	Description
Output Format	Available output formats for the report, i.e.HTML, PDF, CSV, RTF, TXT, XML, ODF, ODS, DOCX, XLS and XLSX.
<i>Please select an Entuity server</i>	Available when the server acts as a central server in a multi Entuity server environment. From the drop down list you can select one or All Servers to run the report against.
<i>Please select a view</i>	Entuity view against which the report is to be run. From the drop down list you can select one view to run the report against.
<i>Report period</i>	Period over which the report applies, by default the previous seven days. When you select: <ul style="list-style-type: none"> ■ Recent, you specify time period in relation to the time the report is run, e.g. one hour before the report time. ■ Range, you can enter start and end dates and times.
<i>Prime Time</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 436 Hypervisor and Virtual Machine Inventory Options

Virtual/Physical Host Traffic Mix Over Time Header

Name	Description
<i>Company Identifiers</i>	Company icon and name defined through the report format.
<i>Report title</i>	Report title, e.g. IP SLA Echo.
<i>Printed on</i>	Date and time the report was generated.
<i>Description</i>	Description of the report.
<i>Prime Time definition</i>	The time within the reporting period for which the report is applicable, e.g. between 09:00 and 17:00 each day.

Table 437 Virtual/Physical Host Traffic Mix Over Time Header

Virtual/Physical Host Traffic Mix Over Time

Name	Description
<i>Number of Hypervisors and VMs over time</i>	A daily breakdown of hypervisors and virtual machines.
<i>VM Traffic (Mbps) vs Total Traffic (Mbps) over time</i>	Charts inbound and outbound VM traffic (Mbps), alongside total inbound and outbound traffic (Mbps) over the reporting period.

Table 438 Virtual/Physical Host Traffic Mix Over Time Summary

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 - see also Entuity User and System Administrator Guide*
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 - CIO Perspective [193](#)
 - CIO SLA Summary Report [191](#)
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