

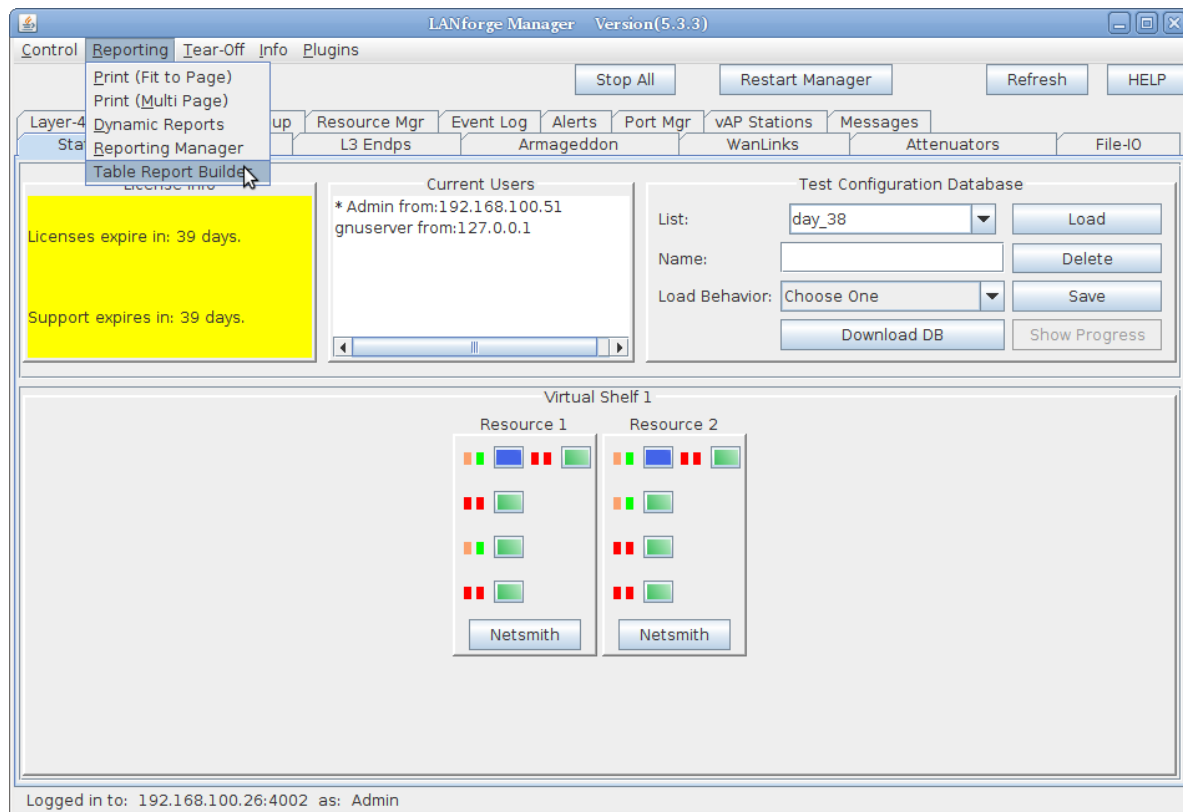
Generating Table-based Reports

Goal: Learn how to generate reports that present the data found in the table views of the LANforge GUI.

We will use the **Reporting→Table Report Generator** tool to select rows and columns present from the LANforge GUI to create an HTML report. The individual rows and columns from the Ports, Layer-3 and L3-Endpoints windows can be selected. Feature appears in release 5.3.3.

1. Beginning a New Report

A. We start in the **Reports** menu, and choose the **Table Report Generator**



- B. The report generator window appears. At the top are lists of previous saved settings. Below those are the selection tables for Layer 3, L3-Endpoints and Ports. The check-box indicates if the item will be included in the report.

Table Report Builder

Saved reports: Full Report
Autosave 16-02-04 17:20
Autosave 16-02-04 17:21

Saved entity selections: All Entities
Autosave 16-02-04 17:20
Autosave 16-02-04 17:21

Layer 3 Skip Select All

Column Name	Use
Name	<input checked="" type="checkbox"/>
Type	<input checked="" type="checkbox"/>
State	<input checked="" type="checkbox"/>
Pkt Rx A	<input checked="" type="checkbox"/>
Pkt Rx B	<input checked="" type="checkbox"/>
Bps Rx A	<input checked="" type="checkbox"/>
Bps Rx B	<input checked="" type="checkbox"/>
Rx Drop % A	<input checked="" type="checkbox"/>
Rx Drop % B	<input checked="" type="checkbox"/>

Select All

Entity Name	Use
sta-mac-100	<input checked="" type="checkbox"/>
sta-mac-101	<input checked="" type="checkbox"/>
sta-mac-102	<input checked="" type="checkbox"/>
sta-mac-103	<input checked="" type="checkbox"/>
sta-mac-104	<input checked="" type="checkbox"/>
sta-mac-105	<input checked="" type="checkbox"/>
sta-mac-106	<input checked="" type="checkbox"/>
sta-mac-107	<input checked="" type="checkbox"/>
sta-mac-108	<input checked="" type="checkbox"/>

L3 Endpoints Skip Select All

Column Name	Use
Name	<input checked="" type="checkbox"/>
EID	<input checked="" type="checkbox"/>
Run	<input checked="" type="checkbox"/>
Mng	<input checked="" type="checkbox"/>
Script	<input checked="" type="checkbox"/>
Tx Rate	<input checked="" type="checkbox"/>
Tx Rate (1 min)	<input checked="" type="checkbox"/>
Tx Rate LL	<input checked="" type="checkbox"/>
Rx Rate	<input checked="" type="checkbox"/>

Select All

Entity Name	Use
lf tcpA	<input checked="" type="checkbox"/>
sta-mac-100-A	<input checked="" type="checkbox"/>
sta-mac-100-B	<input checked="" type="checkbox"/>
sta-mac-101-A	<input checked="" type="checkbox"/>
sta-mac-101-B	<input checked="" type="checkbox"/>
sta-mac-102-A	<input checked="" type="checkbox"/>
sta-mac-102-B	<input checked="" type="checkbox"/>
sta-mac-103-A	<input checked="" type="checkbox"/>
sta-mac-103-B	<input checked="" type="checkbox"/>

Ports Skip Select All

Select All

Column Name	Use
Port	<input checked="" type="checkbox"/>
Phantom	<input checked="" type="checkbox"/>
Down	<input checked="" type="checkbox"/>
IP	<input checked="" type="checkbox"/>
SEC	<input checked="" type="checkbox"/>
Alias	<input checked="" type="checkbox"/>
Parent Dev	<input checked="" type="checkbox"/>
RX Bytes	<input checked="" type="checkbox"/>
RX Pkts	<input checked="" type="checkbox"/>

Entity Name	Use
1.1.eth0	<input checked="" type="checkbox"/>
1.1.eth1	<input checked="" type="checkbox"/>
1.1.sta100	<input checked="" type="checkbox"/>
1.1.wiphy0	<input checked="" type="checkbox"/>
1.1.sta101	<input checked="" type="checkbox"/>
1.1.sta102	<input checked="" type="checkbox"/>
1.1.sta103	<input checked="" type="checkbox"/>
1.1.sta104	<input checked="" type="checkbox"/>
1.1.sta105	<input checked="" type="checkbox"/>

Create Report Close

2. Understanding the two columns in the Table Report Builder.

A. Report Profiles are on the left. This represents your selection of Layer-3, L3-Endpoint and/or Port table columns to include in your report. These preferences are saved independently of the entity choices.

Table Report Builder
[-] [] [X]

Saved reports:

Full Report

Autosave 16-02-04 17:20

Autosave 16-02-04 17:21

Load
Save
Delete

Saved entity selections:

All Entities

Autosave 16-02-04 17:20

Autosave 16-02-04 17:21

Load
Save
Delete

↓ Layer 3 Skip Select All ▼

Column Name	Use
Name	<input checked="" type="checkbox"/>
Type	<input checked="" type="checkbox"/>
State	<input checked="" type="checkbox"/>
Pkt Rx A	<input checked="" type="checkbox"/>
Pkt Rx B	<input checked="" type="checkbox"/>
Bps Rx A	<input checked="" type="checkbox"/>
Bps Rx B	<input checked="" type="checkbox"/>
Rx Drop % A	<input checked="" type="checkbox"/>
Rx Drop % B	<input checked="" type="checkbox"/>
Drop Pkts A	<input checked="" type="checkbox"/>
Drop Pkts B	<input checked="" type="checkbox"/>
Avg RTT	<input checked="" type="checkbox"/>
Rpt Timer	<input checked="" type="checkbox"/>
EID	<input checked="" type="checkbox"/>
Endpoints (A ↔ B)	<input checked="" type="checkbox"/>

Select All ▼

Entity Name	Use
sta-mac-100	<input checked="" type="checkbox"/>
sta-mac-101	<input checked="" type="checkbox"/>
sta-mac-102	<input checked="" type="checkbox"/>
sta-mac-103	<input checked="" type="checkbox"/>
sta-mac-104	<input checked="" type="checkbox"/>
sta-mac-105	<input checked="" type="checkbox"/>
sta-mac-106	<input checked="" type="checkbox"/>
sta-mac-107	<input checked="" type="checkbox"/>
sta-mac-108	<input checked="" type="checkbox"/>
sta-mac-109	<input checked="" type="checkbox"/>

→ L3 Endpoints Skip Select All ▼

→ Ports Skip Select All ▼

Select All ▼

Select All ▼

Create Report
Close

- B. Entity Selections are on the right. This consists of a your combination of Layer-3 connections, L3-Endpoints and/or Ports to report on. These preferences are also saved independently from the profiles.

The screenshot shows the 'Table Report Builder' window. It is divided into several sections:

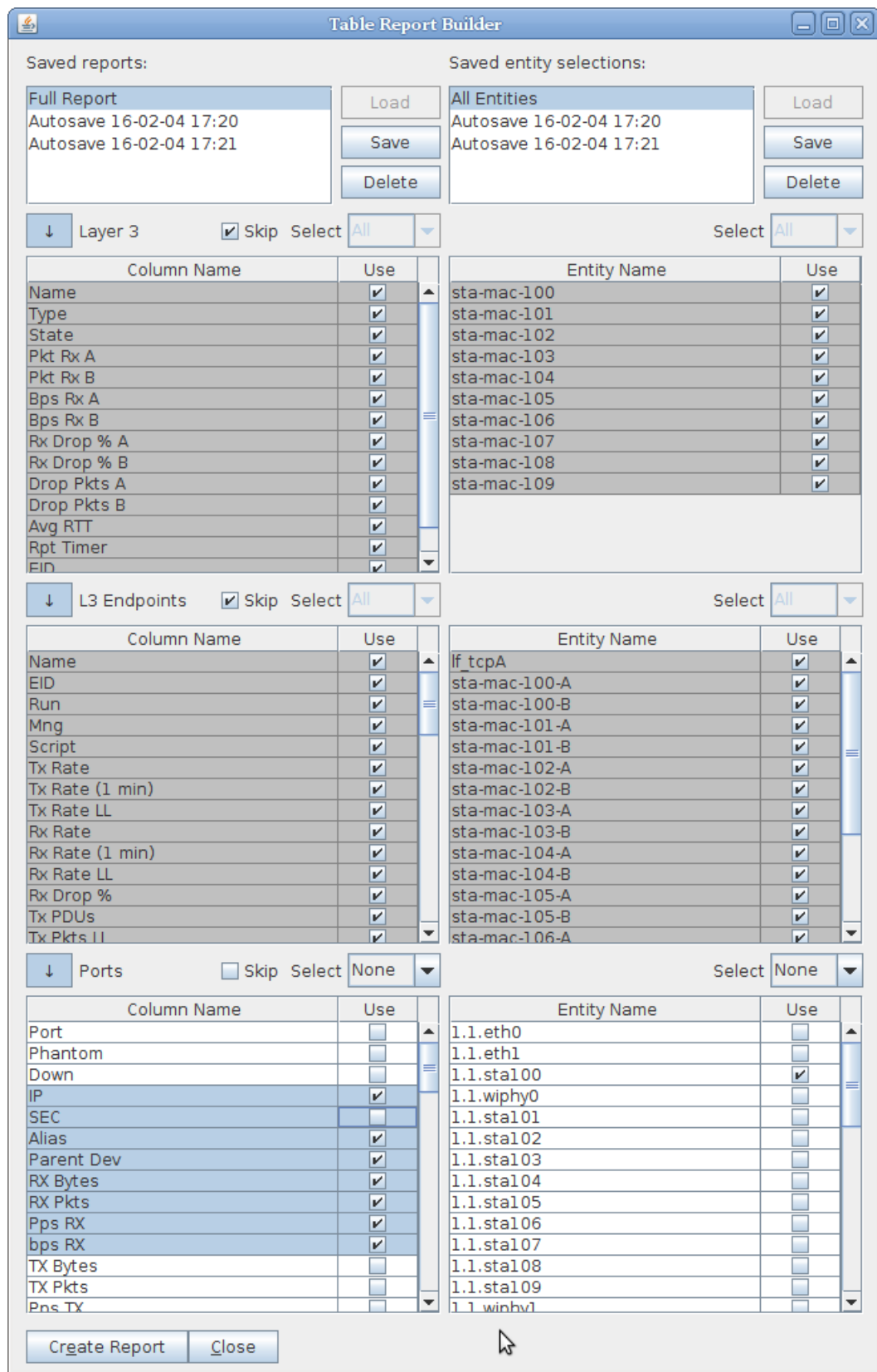
- Saved reports:** A list containing 'Full Report', 'Autosave 16-02-04 17:20', and 'Autosave 16-02-04 17:21'. Buttons for 'Load', 'Save', and 'Delete' are present.
- Saved entity selections:** A list containing 'All Entities', 'Autosave 16-02-04 17:20', and 'Autosave 16-02-04 17:21'. Buttons for 'Load', 'Save', and 'Delete' are present.
- Layer 3 Section:** A dropdown menu set to 'Layer 3', a 'Skip' checkbox, and a 'Select' dropdown set to 'All'.
- Column Selection Table:**

Column Name	Use
Name	<input type="checkbox"/>
Type	<input type="checkbox"/>
State	<input type="checkbox"/>
Pkt Rx A	<input checked="" type="checkbox"/>
Pkt Rx B	<input checked="" type="checkbox"/>
Bps Rx A	<input type="checkbox"/>
Bps Rx B	<input type="checkbox"/>
Rx Drop % A	<input type="checkbox"/>
Rx Drop % B	<input type="checkbox"/>
Drop Pkts A	<input type="checkbox"/>
Drop Pkts B	<input type="checkbox"/>
Avg RTT	<input type="checkbox"/>
Rpt Timer	<input type="checkbox"/>
EID	<input type="checkbox"/>
Endpoints (A ↔ B)	<input type="checkbox"/>
- Entity Selection Table:**

Entity Name	Use
sta-mac-100	<input type="checkbox"/>
sta-mac-101	<input type="checkbox"/>
sta-mac-102	<input checked="" type="checkbox"/>
sta-mac-103	<input checked="" type="checkbox"/>
sta-mac-104	<input checked="" type="checkbox"/>
sta-mac-105	<input type="checkbox"/>
sta-mac-106	<input type="checkbox"/>
sta-mac-107	<input type="checkbox"/>
sta-mac-108	<input type="checkbox"/>
sta-mac-109	<input type="checkbox"/>
- L3 Endpoints Section:** A dropdown menu set to 'L3 Endpoints', a 'Skip' checkbox, and a 'Select' dropdown set to 'None'.
- Ports Section:** A dropdown menu set to 'Ports', a 'Skip' checkbox, and a 'Select' dropdown set to 'None'.
- Buttons:** 'Create Report' and 'Close' buttons are located at the bottom left.

3. Selecting items to include

- A. The Skip button will omit a whole table from the report. Checking and un-checking the skip button will not alter your row selection check boxes.



B. The **Select** drop downs for each table are a short cut for selecting all or unselecting all items in a row.

C. The [SPACE] and [ENTER] keys are shortcuts for selecting and unselecting checkboxes. These keys will toggle highlighted groups of rows as well.

4. Saving and Loading a Report Profile

A. The **Save** button allows you to save your table row selections. Name your saved profile.

Layer 3 Skip Select All Select All

Column Name	Use	Entity Name	Use
Name	<input checked="" type="checkbox"/>	sta-mac-100	<input checked="" type="checkbox"/>
Type	<input checked="" type="checkbox"/>	sta-mac-101	<input checked="" type="checkbox"/>
State	<input checked="" type="checkbox"/>	sta-mac-102	<input checked="" type="checkbox"/>
Pkt Rx A	<input checked="" type="checkbox"/>	sta-mac-103	<input checked="" type="checkbox"/>
Pkt Rx B	<input checked="" type="checkbox"/>	sta-mac-104	<input checked="" type="checkbox"/>
Bps Rx A	<input checked="" type="checkbox"/>	sta-mac-105	<input checked="" type="checkbox"/>
Bps Rx B	<input checked="" type="checkbox"/>	sta-mac-106	<input checked="" type="checkbox"/>
Rx Drop % A	<input checked="" type="checkbox"/>	sta-mac-107	<input checked="" type="checkbox"/>
Rx Drop % B	<input checked="" type="checkbox"/>	sta-mac-108	<input checked="" type="checkbox"/>
Drop Pkts A	<input checked="" type="checkbox"/>	sta-mac-109	<input checked="" type="checkbox"/>
Drop Pkts B	<input checked="" type="checkbox"/>		
Avg RTT	<input checked="" type="checkbox"/>		
Rpt Timer	<input checked="" type="checkbox"/>		
...	<input checked="" type="checkbox"/>		

L3 Endpoints Skip Select None

Column Name	Use	Entity Name	Use
Tx Rate LL	<input type="checkbox"/>	sta-mac-100-A	<input checked="" type="checkbox"/>
Rx Rate	<input checked="" type="checkbox"/>	sta-mac-100-B	<input checked="" type="checkbox"/>
Rx Rate (1 min)	<input type="checkbox"/>	sta-mac-101-A	<input type="checkbox"/>
Rx Rate LL	<input type="checkbox"/>	sta-mac-101-B	<input type="checkbox"/>
Rx Drop %	<input type="checkbox"/>	sta-mac-102-A	<input type="checkbox"/>
Tx PDUs	<input type="checkbox"/>	sta-mac-102-B	<input type="checkbox"/>
Tx Pkts LL	<input type="checkbox"/>	sta-mac-103-A	<input type="checkbox"/>
PDU/s TX	<input checked="" type="checkbox"/>	sta-mac-103-B	<input type="checkbox"/>
Pps TX LL	<input checked="" type="checkbox"/>	sta-mac-104-A	<input type="checkbox"/>
Rx PDUs	<input type="checkbox"/>	sta-mac-104-B	<input type="checkbox"/>
Rx Pkts LL	<input type="checkbox"/>	sta-mac-105-A	<input type="checkbox"/>
PDU/s RX	<input type="checkbox"/>	sta-mac-105-B	<input type="checkbox"/>
Pps RX LL	<input type="checkbox"/>	sta-mac-106-A	<input type="checkbox"/>
Delay	<input type="checkbox"/>		

Ports Skip Select All Select All

Create Report Close

Input

Report Profile Name:

Untitled 8

OK Cancel

B. You can restore previous reports profiles. Select a profile name and then click **Load**.

The screenshot shows the 'Table Report Builder' window with the following sections:

- Saved reports:** A list containing 'Full Report', 'Untitled 8' (highlighted), 'Autosave 16-02-04 17:20', 'Autosave 16-02-04 17:21', and 'Autosave 16-02-08 16:12'. Buttons for 'Load', 'Save', and 'Delete' are present.
- Saved entity selections:** A list containing 'All Entities', 'Autosave 16-02-04 17:20', 'Autosave 16-02-04 17:21', 'Autosave 16-02-08 16:12', and 'Autosave 16-02-08 16:15'. Buttons for 'Load', 'Save', and 'Delete' are present.
- Layer 3:** A section with a 'Skip' checkbox (unchecked) and a 'Select' dropdown set to 'All'. Below it is a table of columns and their usage.
- L3 Endpoints:** A section with a 'Skip' checkbox (unchecked) and a 'Select' dropdown set to 'None'. Below it is a table of columns and their usage.
- Ports:** A section with a 'Skip' checkbox (checked) and a 'Select' dropdown set to 'All'. Below it are 'Create Report' and 'Close' buttons.

Column Name	Use
Name	<input checked="" type="checkbox"/>
Type	<input checked="" type="checkbox"/>
State	<input checked="" type="checkbox"/>
Pkt Rx A	<input checked="" type="checkbox"/>
Pkt Rx B	<input checked="" type="checkbox"/>
Bps Rx A	<input checked="" type="checkbox"/>
Bps Rx B	<input checked="" type="checkbox"/>
Rx Drop % A	<input checked="" type="checkbox"/>
Rx Drop % B	<input checked="" type="checkbox"/>
Drop Pkts A	<input checked="" type="checkbox"/>
Drop Pkts B	<input checked="" type="checkbox"/>
Avg RTT	<input checked="" type="checkbox"/>
Rpt Timer	<input checked="" type="checkbox"/>
...	<input checked="" type="checkbox"/>

Column Name	Use
Tx Rate LL	<input type="checkbox"/>
Rx Rate	<input checked="" type="checkbox"/>
Rx Rate (1 min)	<input type="checkbox"/>
Rx Rate LL	<input type="checkbox"/>
Rx Drop %	<input type="checkbox"/>
Tx PDUs	<input type="checkbox"/>
Tx Pkts LL	<input type="checkbox"/>
PDU/s TX	<input checked="" type="checkbox"/>
Pps TX LL	<input checked="" type="checkbox"/>
Rx PDUs	<input type="checkbox"/>
Rx Pkts LL	<input type="checkbox"/>
PDU/s RX	<input type="checkbox"/>
Pps RX LL	<input type="checkbox"/>
Delay	<input type="checkbox"/>

5. Generating the report is simple, click the **Create Report** button. Your report will be remembered with an *Autosave* record.

Table Report Builder

Saved reports:

- Full Report
- Autosave 16-02-04 17:20
- Autosave 16-02-04 17:21
- Autosave 16-02-08 16:12
- Autosave 16-02-08 16:15
- Autosave 16-02-08 16:16

Load

Save

Delete

Saved entity selections:

- All Entities
- Autosave 16-02-04 17:20
- Autosave 16-02-04 17:21
- Autosave 16-02-08 16:12
- Autosave 16-02-08 16:15
- Autosave 16-02-08 16:16

Load

Save

Delete

Layer 3 Skip Select: All

L3 Endpoints Skip Select: All

Column Name	Use	Entity Name	Use
Name	<input checked="" type="checkbox"/>	if tcpA	<input type="checkbox"/>
EID	<input checked="" type="checkbox"/>	sta-mac-100-A	<input checked="" type="checkbox"/>
Run	<input checked="" type="checkbox"/>	sta-mac-100-B	<input checked="" type="checkbox"/>
Mng	<input checked="" type="checkbox"/>	sta-mac-101-A	<input checked="" type="checkbox"/>
Script	<input checked="" type="checkbox"/>	sta-mac-101-B	<input checked="" type="checkbox"/>
Tx Rate	<input checked="" type="checkbox"/>	sta-mac-102-A	<input checked="" type="checkbox"/>
Tx Rate (1 min)	<input checked="" type="checkbox"/>	sta-mac-102-B	<input checked="" type="checkbox"/>
Tx Rate LL	<input checked="" type="checkbox"/>	sta-mac-103-A	<input type="checkbox"/>
Rx Rate	<input checked="" type="checkbox"/>	sta-mac-103-B	<input type="checkbox"/>
Rx Rate (1 min)	<input checked="" type="checkbox"/>	sta-mac-104-A	<input type="checkbox"/>
Rx Rate LL	<input checked="" type="checkbox"/>	sta-mac-104-B	<input type="checkbox"/>
Rx Drop %	<input checked="" type="checkbox"/>	sta-mac-105-A	<input type="checkbox"/>
Tx PDU/s	<input checked="" type="checkbox"/>	sta-mac-105-B	<input type="checkbox"/>
Tx Pkts LL	<input checked="" type="checkbox"/>	sta-mac-106-A	<input type="checkbox"/>
PDU/s TX	<input checked="" type="checkbox"/>	sta-mac-106-B	<input type="checkbox"/>
Pps TX LL	<input checked="" type="checkbox"/>	sta-mac-107-A	<input type="checkbox"/>
Rx PDU/s	<input checked="" type="checkbox"/>	sta-mac-107-B	<input type="checkbox"/>
Rx Pkts LL	<input checked="" type="checkbox"/>	sta-mac-108-A	<input type="checkbox"/>
PDU/s RX	<input checked="" type="checkbox"/>	sta-mac-108-B	<input type="checkbox"/>
Pps RX LL	<input checked="" type="checkbox"/>	sta-mac-109-A	<input type="checkbox"/>
Delay	<input checked="" type="checkbox"/>	sta-mac-109-B	<input type="checkbox"/>
Dropped	<input checked="" type="checkbox"/>		
Jitter	<input checked="" type="checkbox"/>		
Tx Bytes	<input checked="" type="checkbox"/>		
Rx Bytes	<input checked="" type="checkbox"/>		

Ports Skip Select: All

CrGate Report

Graphical Script Report for: Report Builder

Autosave 16-02-08 16:16 Report

16-02-08 16:16

L3 Endpoints

Name	EID	Run	Mng	Script	Tx Rate	Tx Rate (1 min)	Tx Rate LL	Rx Rate	R
sta-mac-100-A	1.1.21.5	false	true	None	0	0	0	0	0
sta-mac-100-B	1.1.2.6	false	true	None	0	0	0	0	0
sta-mac-101-A	1.1.22.7	false	true	None	0	0	0	0	0
sta-mac-101-B	1.1.4.8	false	true	None	0	0	0	0	0
sta-mac-102-A	1.1.23.9	false	true	None	0	0	0	0	0
sta-mac-102-B	1.1.5.10	false	true	None	0	0	0	0	0

6. Saving the report as a file is easy as well. In the *Graphical Script Report* window, click the **Save File** button.