

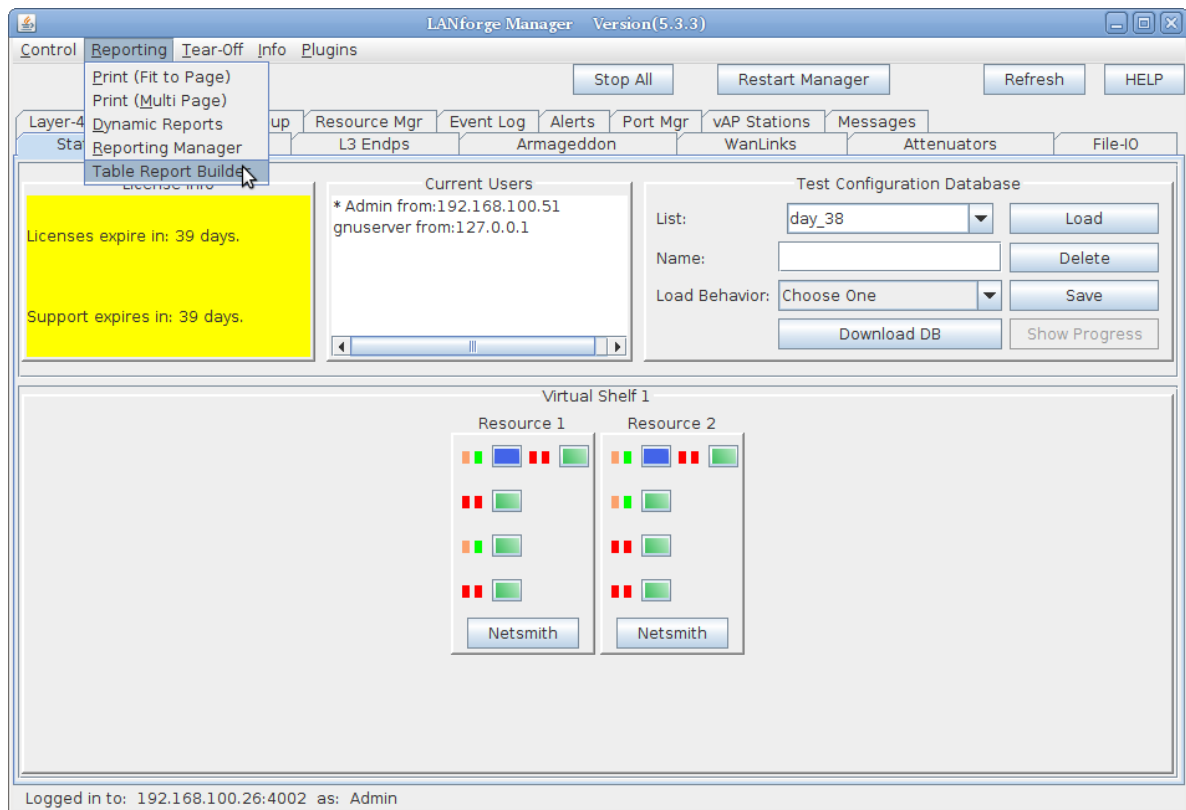
## Generating Table-based Reports

**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.

The screenshot shows the 'Table Report Builder' window. It has a title bar with standard window controls. The main area is divided into several sections:

- Saved reports:** A list of saved reports including 'Full Report', 'Autosave 16-02-04 17:20', and 'Autosave 16-02-04 17:21'. There are 'Load', 'Save', and 'Delete' buttons.
- Saved entity selections:** A list of saved entity selections including 'All Entities', 'Autosave 16-02-04 17:20', and 'Autosave 16-02-04 17:21'. There are 'Load', 'Save', and 'Delete' buttons.
- Layer 3:** A section with a 'Skip' checkbox and a 'Select' dropdown menu set to 'All'. Below it is a table with columns 'Column Name' and 'Use'.
- L3 Endpoints:** A section with a 'Skip' checkbox and a 'Select' dropdown menu set to 'All'. Below it is a table with columns 'Column Name' and 'Use'.
- Ports:** A section with a 'Skip' checkbox and a 'Select' dropdown menu set to 'All'. Below it is a table with columns 'Column Name' and 'Use'.

At the bottom of the window 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"/>

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"/>

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"/>

Entity Name	Use
if 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"/>

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"/>
TX Bytes	<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"/>

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

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"/>

L3 Endpoints

☐ Skip

Select All

Ports

☐ Skip

Select All

Create ReportClose

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"/>

Select All

- 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 two main sections: 'Saved reports:' on the left and 'Saved entity selections:' on the right. Both sections have a list of saved items, 'Load', 'Save', and 'Delete' buttons. Below these are dropdown menus for 'Layer 3' (set to 'All') and 'Select' (set to 'All').

**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

**Column Name / Use 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 Name / Use 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"/>

**Bottom Section:**

- L3 Endpoints:** ☐ Skip Select **None**
- Ports:** ☐ Skip Select **None**

**Buttons:** Create Report, Close

### 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.

- #### 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"/>		
Err	<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"/>		
Delay	<input type="checkbox"/>		

Ports

☒ Skip

Select All

Select All

Create ReportClose

Input

Report Profile Name:

Untitled 8

OKCancel

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

The screenshot shows the 'Table Report Builder' window. It is divided into two main sections: 'Saved reports:' and 'Saved entity selections:'.

**Saved reports:**

- Full Report
- Untitled 8 (selected)
- Autosave 16-02-04 17:20
- Autosave 16-02-04 17:21
- Autosave 16-02-08 16:12

Buttons: 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

Buttons: 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"/>
...	<input checked="" type="checkbox"/>

**L3 Endpoints** ☐ Skip Select None

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"/>

**Ports** ☒ Skip 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"/>

Entity Name	Use
If tcpA	<input type="checkbox"/>
sta-mac-100-A	<input checked="" type="checkbox"/>
sta-mac-100-B	<input checked="" type="checkbox"/>
sta-mac-101-A	<input type="checkbox"/>
sta-mac-101-B	<input type="checkbox"/>
sta-mac-102-A	<input type="checkbox"/>
sta-mac-102-B	<input type="checkbox"/>
sta-mac-103-A	<input type="checkbox"/>
sta-mac-103-B	<input type="checkbox"/>
sta-mac-104-A	<input type="checkbox"/>
sta-mac-104-B	<input type="checkbox"/>
sta-mac-105-A	<input type="checkbox"/>
sta-mac-105-B	<input type="checkbox"/>
sta-mac-106-A	<input type="checkbox"/>

Buttons: Create Report, Close.

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

Select All

L3 Endpoints

☐ Skip

Select All

Select None

Column Name

Use

Entity Name

Use

Name

☒

if tcpA

☐

EID

☒

sta-mac-100-A

☒

Run

☒

sta-mac-100-B

☒

Mng

☒

sta-mac-101-A

☒

Script

☒

sta-mac-101-B

☒

Tx Rate

☒

sta-mac-102-A

☒

Tx Rate (1 min)

☒

sta-mac-102-B

☒

Tx Rate LL

☒

sta-mac-103-A

☐

Rx Rate

☒

sta-mac-103-B

☐

Rx Rate (1 min)

☒

sta-mac-104-A

☐

Rx Rate LL

☒

sta-mac-104-B

☐

Rx Drop %

☒

sta-mac-105-A

☐

Tx PDU/s

☒

sta-mac-105-B

☐

PDU/s TX

☒

sta-mac-106-A

☐

Pps TX LL

☒

sta-mac-106-B

☐

Rx PDU/s

☒

sta-mac-107-A

☐

Rx Pkts LL

☒

sta-mac-107-B

☐

PDU/s RX

☒

sta-mac-108-A

☐

Pps RX LL

☒

sta-mac-108-B

☐

Delay

☒

sta-mac-109-A

☐

Dropped

☒

sta-mac-109-B

☐

Jitter

☒

☐

Tx Bytes

☒

☐

Rx Bytes

☒

☐

Ports

☒ Skip

Select All

Select All

Create Report

Close

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	
sta-mac-100-B	1.1.2.6	false	true	None	0	0	0	0	
sta-mac-101-A	1.1.22.7	false	true	None	0	0	0	0	
sta-mac-101-B	1.1.4.8	false	true	None	0	0	0	0	
sta-mac-102-A	1.1.23.9	false	true	None	0	0	0	0	
sta-mac-102-B	1.1.5.10	false	true	None	0	0	0	0	

Close

Save File

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

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