sales@candelatech.com
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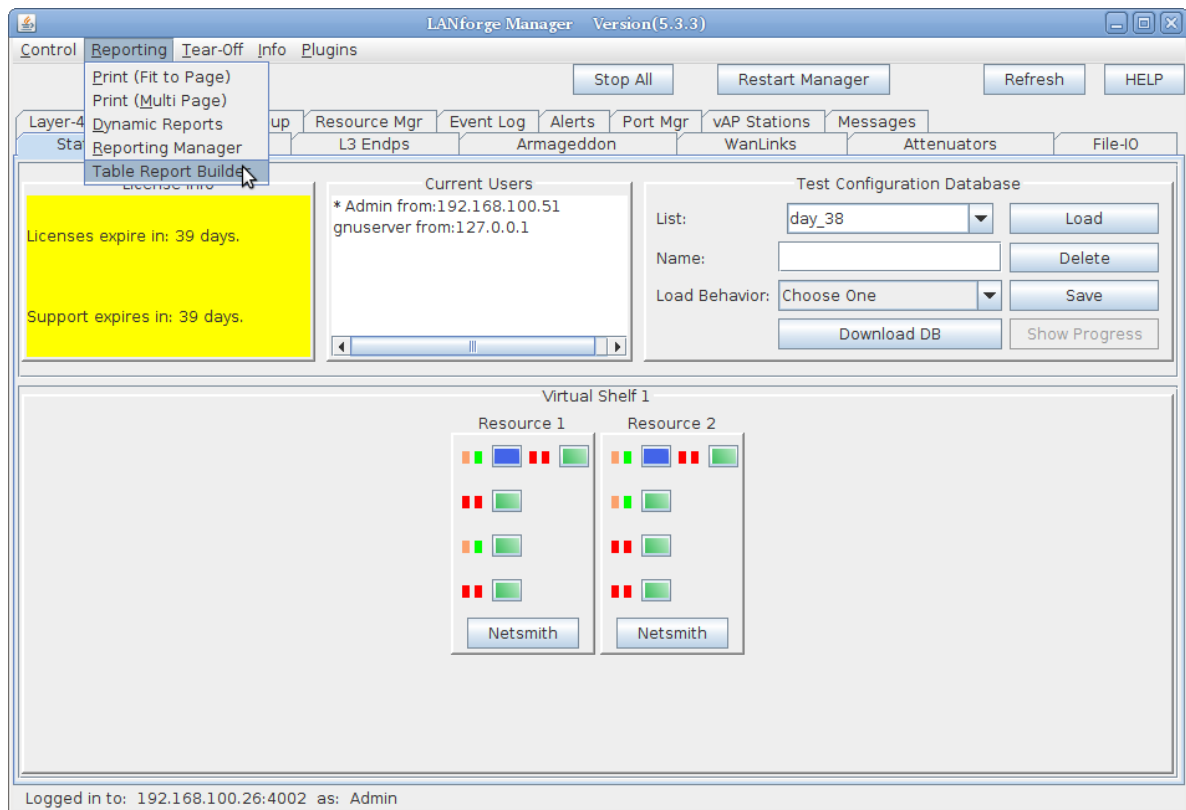+1 (360) 380-1618 [PST, GMT -8]

Network Testing and Emulation Solutions

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 appeares in release 5.3.3.

1. Begining 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.

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	Load
Autosave 16-02-04 17:20	Save
Autosave 16-02-04 17:21	Delete

Saved entity selections:

All Entities	Load
Autosave 16-02-04 17:20	Save
Autosave 16-02-04 17:21	Delete

↓ Layer 3 ☐ Skip Select All ▼

Select All ▼

Column Name	Use
Name	✔
Type	✔
State	✔
Pkt Rx A	✔
Pkt Rx B	✔
Bps Rx A	✔
Bps Rx B	✔
Rx Drop % A	✔
Rx Drop % B	✔
Drop Pkts A	✔
Drop Pkts B	✔
Avg RTT	✔
Rpt Timer	✔
EID	✔
Endpoints (A ↔ B)	✔

Entity Name	Use
sta-mac-100	✔
sta-mac-101	✔
sta-mac-102	✔
sta-mac-103	✔
sta-mac-104	✔
sta-mac-105	✔
sta-mac-106	✔
sta-mac-107	✔
sta-mac-108	✔
sta-mac-109	✔

→ L3 Endpoints ☐ Skip Select All ▼   Select All ▼

→ Ports ☐ Skip 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.

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.

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	☑
Type	☑
State	☑
Pkt Rx A	☑
Pkt Rx B	☑
Bps Rx A	☑
Bps Rx B	☑
Rx Drop % A	☑
Rx Drop % B	☑
Drop Pkts A	☑
Drop Pkts B	☑
Avg RTT	☑
Rpt Timer	☑
EID	☑

Select All ▾

Entity Name	Use
sta-mac-100	☑
sta-mac-101	☑
sta-mac-102	☑
sta-mac-103	☑
sta-mac-104	☑
sta-mac-105	☑
sta-mac-106	☑
sta-mac-107	☑
sta-mac-108	☑
sta-mac-109	☑

↓ L3 Endpoints   ☑ Skip   Select All ▾

Column Name	Use
Name	☑
EID	☑
Run	☑
Mng	☑
Script	☑
Tx Rate	☑
Tx Rate (1 min)	☑
Tx Rate LL	☑
Rx Rate	☑
Rx Rate (1 min)	☑
Rx Rate LL	☑
Rx Drop %	☑
Tx PDUs	☑
Tx Pkts LL	☑

Select All ▾

Entity Name	Use
lf_tcpA	☑
sta-mac-100-A	☑
sta-mac-100-B	☑
sta-mac-101-A	☑
sta-mac-101-B	☑
sta-mac-102-A	☑
sta-mac-102-B	☑
sta-mac-103-A	☑
sta-mac-103-B	☑
sta-mac-104-A	☑
sta-mac-104-B	☑
sta-mac-105-A	☑
sta-mac-105-B	☑
sta-mac-106-A	☑

↓ Ports   ☐ Skip   Select None ▾

Column Name	Use
Port	☐
Phantom	☐
Down	☐
IP	☑
SEC	☐
Alias	☑
Parent Dev	☑
RX Bytes	☑
RX Pkts	☑
Pps RX	☑
bps RX	☑
TX Bytes	☐
TX Pkts	☐
Pps TX	☐

Select None ▾

Entity Name	Use
1.1.eth0	☐
1.1.eth1	☐
1.1.sta100	☑
1.1.wiphy0	☐
1.1.sta101	☐
1.1.sta102	☐
1.1.sta103	☐
1.1.sta104	☐
1.1.sta105	☐
1.1.sta106	☐
1.1.sta107	☐
1.1.sta108	☐
1.1.sta109	☐
1.1.wiphy1	☐

Create Report · Close

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.

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

Table Report Builder

Saved reports:
- Full Report
- Untitled 8
- Autosave 16-02-04 17:20
- Autosave 16-02-04 17:21
- Autosave 16-02-08 16:12

[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

[Load] [Save] [Delete]

↓ Layer 3 ☐ Skip Select [All ▾]   Select [All ▾]

Column Name	Use
Name	✔
Type	✔
State	✔
Pkt Rx A	✔
Pkt Rx B	✔
Bps Rx A	✔
Bps Rx B	✔
Rx Drop % A	✔
Rx Drop % B	✔
Drop Pkts A	✔
Drop Pkts B	✔
Avg RTT	✔
Rpt Timer	✔
EID	✔

Entity Name	Use
sta-mac-100	✔
sta-mac-101	✔
sta-mac-102	✔
sta-mac-103	✔
sta-mac-104	✔
sta-mac-105	✔
sta-mac-106	✔
sta-mac-107	✔
sta-mac-108	✔
sta-mac-109	✔

↓ L3 Endpoints ☐ Skip Select [None ▾]   Select [None ▾]

Column Name	Use
Tx Rate LL	☐
Rx Rate	✔
Rx Rate (1 min)	☐
Rx Rate LL	☐
Rx Drop %	☐
Tx PDUs	☐
Tx Pkts LL	☐
PDU/s TX	✔
Pps TX LL	✔
Rx PDUs	☐
Rx Pkts LL	☐
PDU/s RX	☐
Pps RX LL	☐
Delay	☐

Entity Name	Use
lf_tcpA	☐
sta-mac-100-A	✔
sta-mac-100-B	✔
sta-mac-101-A	☐
sta-mac-101-B	☐
sta-mac-102-A	☐
sta-mac-102-B	☐
sta-mac-103-A	☐
sta-mac-103-B	☐
sta-mac-104-A	☐
sta-mac-104-B	☐
sta-mac-105-A	☐
sta-mac-105-B	☐
sta-mac-106-A	☐

→ Ports ☑ Skip Select [All ▾]   Select [All ▾]

[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
Name	☑
EID	☑
Run	☑
Mng	☑
Script	☑
Tx Rate	☑
Tx Rate (1 min)	☑
Tx Rate LL	☑
Rx Rate	☑
Rx Rate (1 min)	☑
Rx Rate LL	☑
Rx Drop %	☑
Tx PDUs	☑
Tx Pkts LL	☑
PDU/s TX	☑
Pps TX LL	☑
Rx PDUs	☑
Rx Pkts LL	☑
PDU/s RX	☑
Pps RX LL	☑
Delay	☑
Dropped	☑
Jitter	☑
Tx Bytes	☑
Rx Bytes	☑

Entity Name	Use
lf_tcpA	☐
sta-mac-100-A	☑
sta-mac-100-B	☑
sta-mac-101-A	☑
sta-mac-101-B	☑
sta-mac-102-A	☑
sta-mac-102-B	☑
sta-mac-103-A	☐
sta-mac-103-B	☐
sta-mac-104-A	☐
sta-mac-104-B	☐
sta-mac-105-A	☐
sta-mac-105-B	☐
sta-mac-106-A	☐
sta-mac-106-B	☐
sta-mac-107-A	☐
sta-mac-107-B	☐
sta-mac-108-A	☐
sta-mac-108-B	☐
sta-mac-109-A	☐
sta-mac-109-B	☐

→ 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
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

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