
Configure TWAMP Light Test Sessions



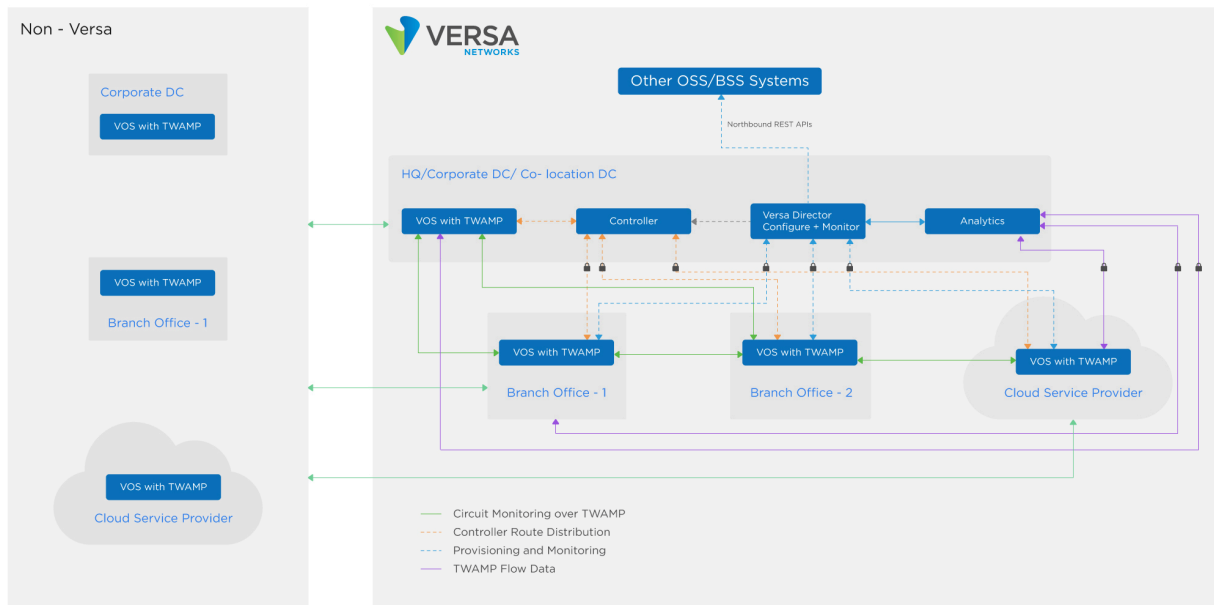
For supported software information, click [here](#).

TWAMP Light is a lightweight version of the Two-Way Active Measurement Protocol (TWAMP) that eliminates the need for a control session. TWAMP is a standard protocol, defined in RFC 5357, that is used to measure network performance for IP networks and can be used for SLA compliance checks. TWAMP Light allows you to measure network performance and send multivendor interoperable probes on LAN interfaces, WAN interfaces, and IKEv2-based IPsec tunnels.

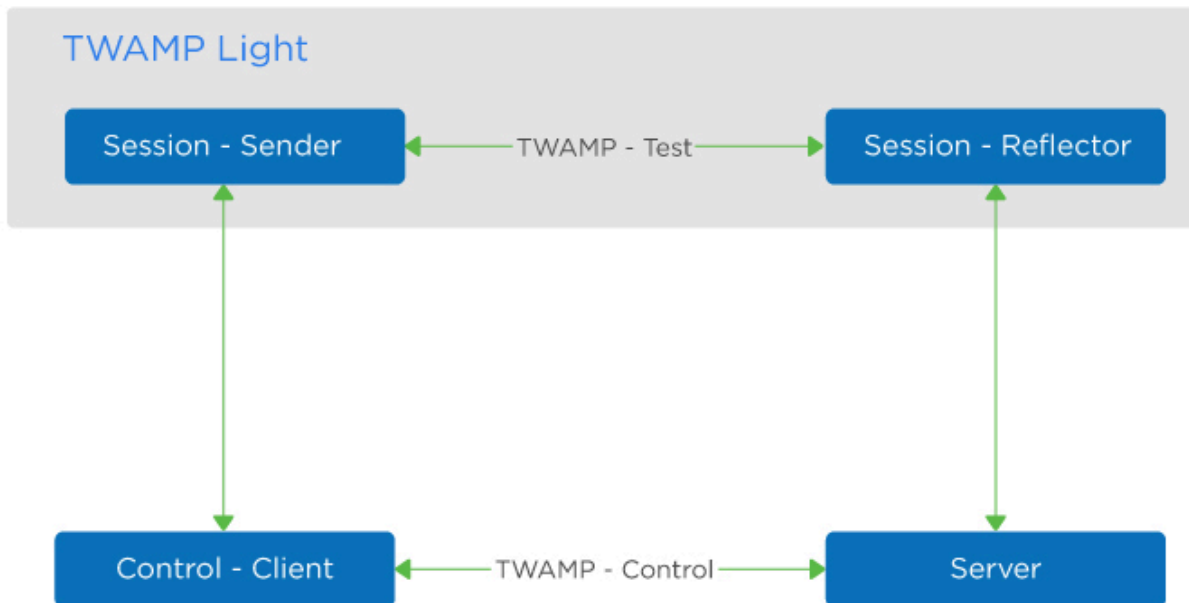
The Versa Operating System™ (VOS™) TWAMP software consists of the following components, all of which are compliant with RFC 5357:

- Control server—Interfaces with the control client, and configures and manages one or more TWAMP reflector sessions for each available control connection.
- Control client—Negotiates TWAMP test parameters with the control server, and, based on the negotiated parameters, manages the lifecycle of TWAMP test sessions while performing circuit quality measurements between configured endpoints.
- Session reflector—Reflects the TWAMP test measurement packets received from a preconfigured TWAMP test sender.
- Session sender—Sends TWAMP test packets to the peer test-session reflector, to measure circuit quality.

The following figure illustrates the TWAMP network performance measurement flow within a Versa network, and between a Versa Networks and a non-Versa network.



TWAMP Light eliminates the need for a control session, and it is a test-only version with session sender and session reflector, as illustrated in the following figure.



A TWAMP Light test session exchanges probe packets with a standards-compliant peer to measure performance metrics, including the following:

- Round-trip delay (RTT) and RTT delay variance (jitter)
- One-way delay (OWD) and one-way delay variance (jitter)

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Common_Configuration/Configure_TWA...

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- RTT packet loss and packet loss ratio

RTT measurements do not require clock synchronization because they are measured against the same host clock, but clock synchronization is required to perform one-way measurements. You can check the network quality over any class of service (CoS) by setting a DSCP value for test sessions. You can configure test sessions to run over VLAN interfaces by using the IP address of the interface. Currently, only vni and site-to-site IPsec tvi interfaces are supported. For more information about VLAN interfaces, see [Configure Interfaces](#).

A TWAMP Light sessions is considered a child if it is associated with a TWAMP Control connection. You can add a new TWAMP Light session as a child session to an existing TWAMP Control connection or create a child session while creating a TWAMP Control connection. For more information, see [Configure TWAMP Control Client and Server Sessions](#).

This article describes how to configure test sessions for a TWAMP Light session reflector and session sender, and how to monitor and analyze TWAMP Light performance metrics. You can also start, stop, or restart a session sender test session.

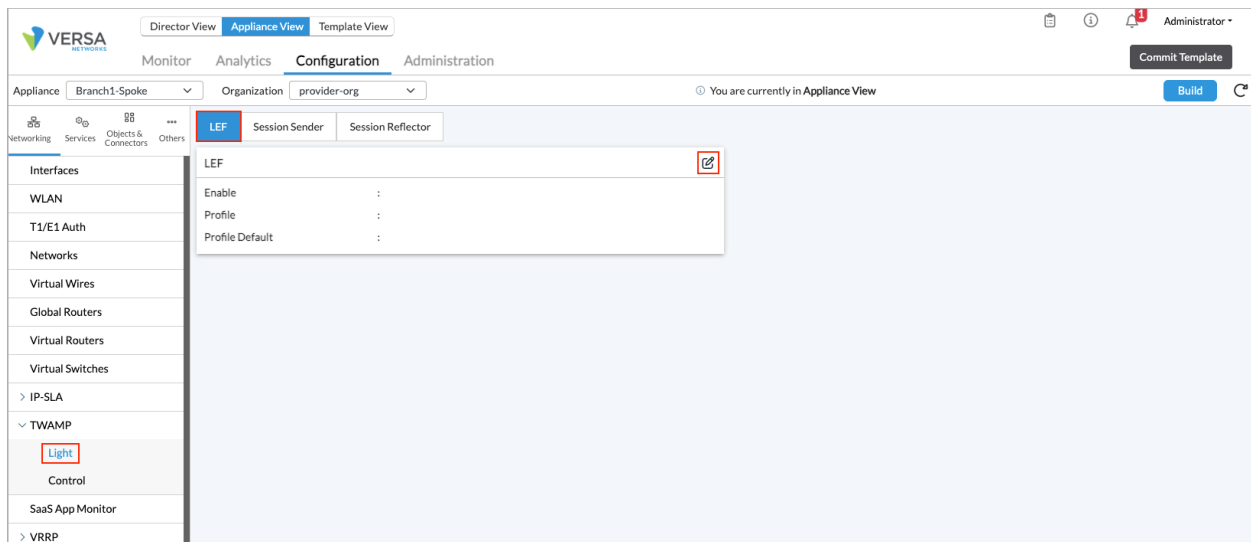
Configure TWAMP Light Test Sessions

You can configure test sessions for session reflector and session sender.

Configure LEF

You can configure log export functionality (LEF) for TWAMP light sessions:

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliances in the left menu bar.
 - c. Click the appliance in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Networking > TWAMP > Light in the left menu bar. For Releases 22.1.1 and earlier, select Networking > TWAMP.
4. Select the LEF tab.



5. Click the  Edit icon to configure LEF and enter the following information.

LEF

Session Sender

Session Reflector

LEF

Enable

:

☐

Profile

:

---Please Select---

▼

Profile Default

:

☐

Cancel

Confirm

Field	Description
Enable	Click to enable LEF.
Profile	Select an LEF profile from the drop-down list. This field is selectable only if you have not selected the Profile Default checkbox.
Profile Default	Click to use the default LEF profile.

6. Click Confirm.

Configure a Session Sender Test Session

To configure a TWAMP Light session sender test session:

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliances in the left menu bar.
 - c. Click the appliance in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Networking > TWAMP ;> Light in the left menu bar. For Releases 22.1.1 and earlier, select Networking > TWAMP.
4. Select the Session Sender tab.

The screenshot shows the Versa Networks Director interface. The top navigation bar includes 'Director View', 'Appliance View', and 'Template View'. The left sidebar shows the navigation menu with 'Light' selected under TWAMP. The main pane shows the 'Session Sender' tab with a table of configured sessions.

<input type="checkbox"/>	Name	Reflector IP	Reflector UDP Port	Routing Instance	Sender IP	Sender Port	Actions
<input type="checkbox"/>	wan2_cntrl1	192.168.22.2	50101	WAN2-Transport-VR	192.168.12.2	50100	
<input type="checkbox"/>	wan2_cntrl2	192.168.22.2	50201	WAN2-Transport-VR	192.168.12.2	50200	
<input type="checkbox"/>	wan2_light1	192.168.22.2	51101	WAN2-Transport-VR	192.168.12.2	51100	
<input type="checkbox"/>	wan2_light2	192.168.22.2	51201	WAN2-Transport-VR	192.168.12.2	51200	

5. By default, all TWAMP Light session sender sessions for this tenant are enabled. To disable TWAMP Light session sender sessions for this client, click the Edit icon and then deselect Sender Light Enable.
6. Click the Add icon to add a session. In the Create TWAMP Light Session Sender Test Session popup window, enter information for the following fields. Note that configuration changes for an active session resets the session.

Create TWAMP Light Session Sender Test Session

×

<div>Session Name *</div> <input type="text"/>	<div>Routing Instance *</div> <div>---Please Select---</div>	<div>Control Connection</div> <div>---Please Select---</div>
<div>Reflector IP *</div> <input type="text"/>	<div>Reflector UDP Port *</div> <input type="text" value="0, 862, 1024 .. 1055, 49152 .. 65535"/>	<div>Sender IP *</div> <input type="text"/>
<div>Sender UDP Port *</div> <input type="text" value="0, 1024 .. 1055, 49152 .. 57343"/> <div><input type="checkbox"/> Auto</div>	<div>Peer Vendor</div> <div>Non-Versa</div>	<div>Reflector Mode</div> <div>Stateless</div>

☒ Test Session Enable

☐ Auto Start

☐ Packet Padding MBZ

☐ LEF

<div>First Percentile</div> <input type="text" value="0.1 .. 100"/>	<div>Second Percentile</div> <input type="text" value="0.1 .. 100"/>	<div>Third Percentile</div> <input type="text" value="0.1 .. 100"/>
<div>Interval (msec)</div> <input type="text" value="10000 .. 4294967294"/>	<div>Number of Transmit Bunch Packets</div> <input type="text" value="1 .. 100"/>	<div>DSCP Value</div> <input type="text" value="0 .. 63"/>
<div>Number of Packets</div> <input type="text" value="1 .. 100000"/> <div><input type="checkbox"/> Forever</div>	<div>Packet Padding Size</div> <input type="text" value="27 .. 4096"/> <div><input type="checkbox"/> IMIX</div>	<div>Repeat</div> <input type="text" value="0 .. 4294967294"/> <div><input type="checkbox"/> Forever</div>
<div>Repeat Interval (seconds)</div> <input type="text" value="1 .. 4294967294"/>	<div>Session Timeout (seconds)</div> <input type="text" value="10 .. 4294967294"/>	<div>Measurement Interval (seconds)</div> <input type="text" value="1 .. 4294967294"/>

OK

Cancel

Field	Description
Session Name (Required)	<p>Enter a name for the TWAMP Light sender test session.</p> <p><i>Values:</i> Text string up 63 characters</p>
Routing Instance (Required)	<p>Select the VRF routing instance on which to run the tests for this node.</p>
Control Connection	<p>(For Releases 22.1.3 and later.) Select the TWAMP Control client connection to associate with this sender test session as a child session. For more information, see Configure a TWAMP Control Client Connection.</p>
Reflector IP (Required)	<p>Enter the IP address of the peer node that reflects the probes initiated by this node. The address must be an IPv4 address.</p>
Reflector UDP Port (Required)	<p>Enter the UDP port number on the peer node on which the reflector listens.</p> <p><i>Range:</i> 862, 1024 through 1055, 49152 through 65535</p>
Sender IP (Required)	<p>Enter the IP address of the VOS node on which the tests are initiated. The address must be an IPv4 address.</p>
Sender UDP Port (Required)	<p>Enter the UDP port to use for the test session on the current node, or select auto to have the UDP port automatically allocated.</p> <p><i>Range:</i> 1024, through 1055, 49152 through 57343</p>
Peer Vendor	<p>Select the peer vendor device type for the test session:</p> <ul style="list-style-type: none"> ◦ Non-Versa—Select this option for other scenarios. This is the default. ◦ RAC Client—Remote Access Client device.


	<p>Select this option when you are configuring auto-SLA for Versa SASE clients.</p> <ul style="list-style-type: none"> ◦ Versa—Select this option when you are connecting SLA over a site-to-site IPsec VPN. For more information, see Configure Site-to-Site Tunnels. <p><i>Default:</i> Non-Versa</p>
Reflector Mode	<p>Select the mode of the TWAMP reflector for the test session:</p> <ul style="list-style-type: none"> ◦ Stateful—Session sender is aware of the state of the TWAMP Light test session. ◦ Stateless—Session sender is not aware of the state of the TWAMP Light test session. This is the default. <p><i>Default:</i> Stateless</p>
Test Session Enable	<p>Click to enable the test session.</p> <p><i>Default:</i> Enabled</p>
Auto Start	<p>Click to automatically start the test session without waiting for a manual start or stop request. Automatic starting is suitable for tests running in forever mode.</p>
Packet Padding MBZ	<p>Click to initialize mandatory packet padding with all zeroes (must be zero) for the reflector session. Packet padding uses pseudo-random data to avoid data by default compression and other techniques in middle, as specified in RFC 5357.</p>
LEF	<p>Click to enable Versa Analytics log export functionality (LEF).</p>
First Percentile	<p>Enter the lowest percentile of running statistics for which to report measurement metrics.</p> <p><i>Range:</i> 0.1 through 100.0</p> <p><i>Default:</i> 95.0</p>
Second Percentile	<p>Enter the medium percentile of running statistics for</p>

	<p>which to report measurement metrics. This value is valid only if the First Percentile field is not null.</p> <p><i>Range:</i> 0.1 through 100.0</p> <p><i>Default:</i> 99.0</p>
Third Percentile	<p>Enter the highest percentile of running stats for which to report measurement metrics. This value is valid only if First Percentile is not null.</p> <p><i>Range:</i> 0.1 through 100.0</p> <p><i>Default:</i> 99.90</p>
Interval (microseconds)	<p>Enter the interval, in microseconds, between the transmission of two consecutive packets in the test session. Note that setting the value of this interval below 100000 microseconds (100 milliseconds) can significantly increase CPU consumption for tests.</p> <p><i>Range:</i> 10000 through 4294967294</p> <p><i>Default:</i> 1000000 microseconds (1 second)</p>
Number of Transmit Bunch Packets	<p>Enter the number of packets to be grouped in a transmission. By default, a single packet is transmitted.</p> <p><i>Range:</i> 1 through 100</p> <p><i>Default:</i> 1</p>
DSCP Value	<p>Enter the DSCP value to measure the network CoS behavior.</p> <p><i>Range:</i> 1 through 64</p> <p><i>Default:</i> 0 (DSCP is disabled)</p>
Number of Packets	<p>Enter the number of packets to transmit in the current</p>

	<p>test session.</p> <p><i>Range:</i> 10 through 1000000</p> <p><i>Default:</i> 10</p>
◦ Forever	Click to send packets continuously during the test session at the interval set in the Interval field.
Packet Padding Size	<p>Enter the packet padding size for test probe packets. You calculate this value based on the path MTU of the network on which to perform measurements.</p> <p><i>Range:</i> 27 through 4000 bytes</p> <p><i>Default:</i> 27 bytes</p>
◦ IMIX	Click to have the test session use a pseudorandom number generator to generate the packet padding size to mimic the Internet Mix (IMIX) traffic.
Repeat	<p>Enter the number of times to repeat the test session. When a test session completes, the test repeats for the number of times specified in this value. When the value is 0, the test session does not repeat. If the value is greater than 0, the test session is repeated at the interval configured in the Repeat Interval field.</p> <p><i>Range:</i> 0 through 4294967294</p> <p><i>Default:</i> 0</p>
◦ Forever	Click to repeat the test forever, repeating the test session at the interval configured in the Repeat Interval field rather than using the repeat value set in the Repeat field.
Repeat Interval (Seconds)	<p>Enter the time interval between test sessions when a test session is repeated; that is, when the value in the Repeat field is greater than 0.</p> <p><i>Range:</i> 0 through 4294967294 seconds</p> <p><i>Default:</i> 0 seconds</p>

Session Timeout (Seconds)	Enter the period after which the test session times out. <i>Default:</i> 900 seconds
Measurement Interval (Seconds)	Enter the interval to calculate performance metrics when the test mode is Forever. Note that this value must be less than the time that you configure in the Session Timeout field. <i>Range:</i> 0 through 4294967294 seconds <i>Default:</i> 60 seconds

7. Click OK.

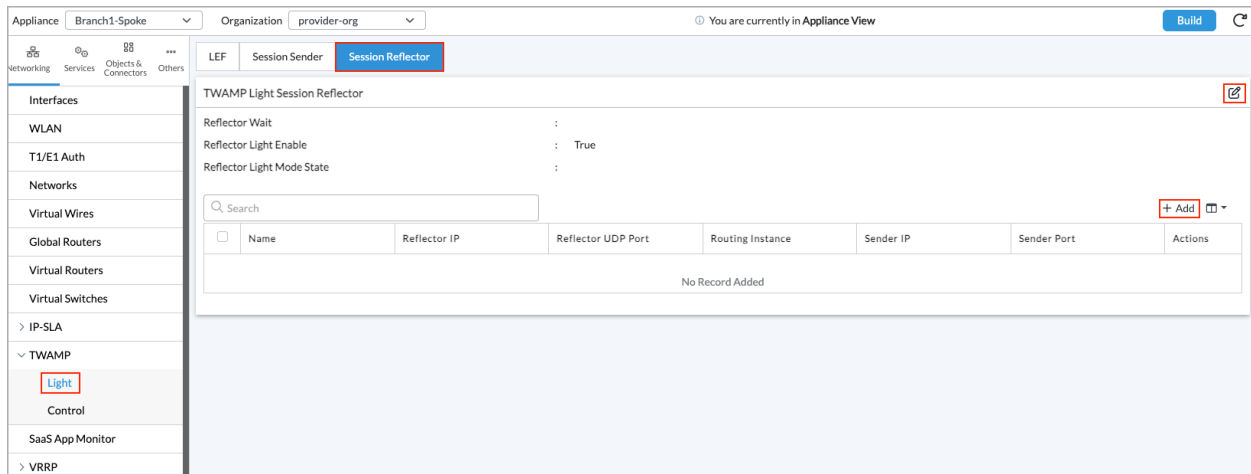
To delete a session, go to the main TWAMP Light Session Sender screen, hover over the session that you want to delete, and then click the  Delete icon in the Actions column. Note that the Delete icon is not visible until you hover over the session information.


	Name	Client IP	Client TCP Port	Server IP	Server TCP Port	Routing Instance	Actions
	wan2_cntrl1	192.168.12.2	50100	192.168.22.2	50101	WAN2-Transport-VR	  

Configure a Session Reflector Test Session


To configure a TWAMP Light reflector test session:


- In Director view:
 - Select the Administration tab in the top menu bar.
 - Select Appliances in the left menu bar.
 - Click the appliance in the main pane. The view changes to Appliance view.
- Select the Configuration tab in the top menu bar.
- Select Networking > TWAMP > Light in the left menu bar. For Releases 22.1.1 and earlier, select Networking > TWAMP.
- Select the Session Reflector tab.



- Click the  Edit icon to configure the TWAMP light session reflector, and then enter information for the following fields. Note that any tenant-level configuration update resets the sessions active under this tenant.

TWAMP Light Session Reflector	
Reflector Wait	: 1..604800
Reflector Light Enable	: <input checked="" type="checkbox"/>
Reflector Light Mode State	: ---Please Select---

Field	Description
Reflector Wait	Enter a value for the reflector session timeout. <i>Range:</i> 1 through 604800 seconds <i>Default:</i> 900 seconds
Reflector Light Enable	By default, a TWAMP Light session reflector is enabled for the tenant. To disable TWAMP Light session reflector for this client, click the  Edit icon, then deselect Reflector Light Enable checkbox. <i>Default:</i> Enabled
Reflector Light Mode State	Select the mode to run reflector sessions on the current node: <ul style="list-style-type: none"> ◦ Stateful—Session reflector is aware of the state of the TWAMP Light test session. ◦ Stateless—Session reflector is not aware of the state of the TWAMP Light test session. <i>Default:</i> Stateless

- Click the  Add icon to add a TWAMP Light reflector test session. In the Create TWAMP Light Session Reflector Test Session popup window, enter information for the following fields. Note that configuration changes for an active session reset the session.

Create TWAMP Light Session Reflector Test Session

Session Name *

Routing Instance *

---Please Select---

Control Connection

---Please Select---

☒ Auto Start

☐ Packet Padding MBZ

☐ LEF

Reflector IP *

Reflector UDP Port *

0, 862, 1024 .. 1055, 49152 .. 65535

Sender IP *

Sender UDP Port *

0, 1024 .. 1055, 49152 .. 57343 ☐ Auto

DSCP Handling Mode

Copy Received Value

Peer Vendor

Non-Versa

OK

Cancel

Field	Description
Session Name (Required)	Enter a name for the TWAMP Light reflector test session. <i>Range:</i> 1 through 63 characters
Routing Instance (Required)	Select the VRF routing instance on which to run the test session.
Control Connection	(For Releases 22.1.3 and later.) Select a TWAMP Control server connection that you want this sender test session to be associated as a child session. For more information, see Configure a TWAMP Control Server Connection .
Auto Start	(For Releases 22.1.3 and later.) Click to automatically start the test session without waiting for a manual start or stop request.
Packet Padding MBZ	Click to initialize mandatory packet padding with zeroes for the reflector session. The packet padding area is filled with pseudo-random data by default to avoid data compression and other optimization techniques in middle, as specified in RFC 5357.
LEF	Click to enable Versa Analytics log export functionality (LEF).
Reflector IP (Required)	Enter the IP address of the VOS device that reflects the test probes initiated by peer. Supports only IPv4.
Reflector UDP Port (Required)	Enter the UDP port on this node on which the reflector listens. <i>Range:</i> 49152 through 65535
Sender IP (Required)	Enter the IP address of the peer node from which to initiate the test session. Supports only IPv4.

Sender UDP Port (Required)	Enter the UDP port that the peer node uses when initiating this test session. <i>Range:</i> 49152 through 65535
DSCP Handling Mode	Select the mode for handling DSCP in the test probes: <ul style="list-style-type: none"> ◦ Copy Received Value—Reflect the incoming DSCP value in the reply. This is the default. ◦ Use Configured Value—Select the user-configured value for the session. <i>Default:</i> Copy Received Value
Peer Vendor	Select the peer vendor device type for the test session: <ul style="list-style-type: none"> ◦ Non-Versa—Select this option for other scenarios. This is the default. ◦ RAC Client—Remote Access Client device. Select this option when you are configuring auto-SLA for Versa SASE clients. ◦ Versa—Select this option when you are connecting SLA over a site-to-site IPsec VPN. For more information, see Configure Site-to-Site Tunnels. <i>Default:</i> Non-Versa

7. Click OK.

To verify the TWAMP Light test session configuration:

```
admin@Branch1-cli> show configuration orgs org-services provider-org twamp-light | detail
twamp-light-session-sender {
  sender-light-enable true;
  test-session tst2 {
    auto-start          true;
    peer-vendor          non-versa;
    pkt-pad-mbz          false;
    num-tx-bunch-pkts    1;
    enable               true;
    number-of-packets     forever;
    packet-padding-size   27;
    interval              1000000;
    measurement-interval  60;
    repeat                25;
    repeat-interval       10;
  }
}
```

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Common_Configuration/Configure_TWA...

Updated: Wed, 23 Oct 2024 08:23:40 GMT

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```

dscp-value          0;
test-session-reflector-mode stateless;
sender-ip           172.16.30.100;
sender-udp-port     49158;
reflector-ip        172.16.30.101;
reflector-udp-port  49159;
routing-instance    LAN1-vrf;
first-percentile    95.0;
second-percentile   99.0;
third-percentile    99.9;
}
}
twamp-light-session-reflector {
  reflector-light-enable true;
  ref-wait 900;
  reflector-light-mode-state stateless;
  test-session tst3 {
    peer-vendor non-versa;
    pkt-pad-mbz false;
    dscp-handling-mode copy-received-value;
    sender-ip 11.11.11.101;
    sender-udp-port 49161;
    reflector-ip 11.11.11.102;
    reflector-udp-port 49162;
    routing-instance provider-org-LAN-VR;
  }
}

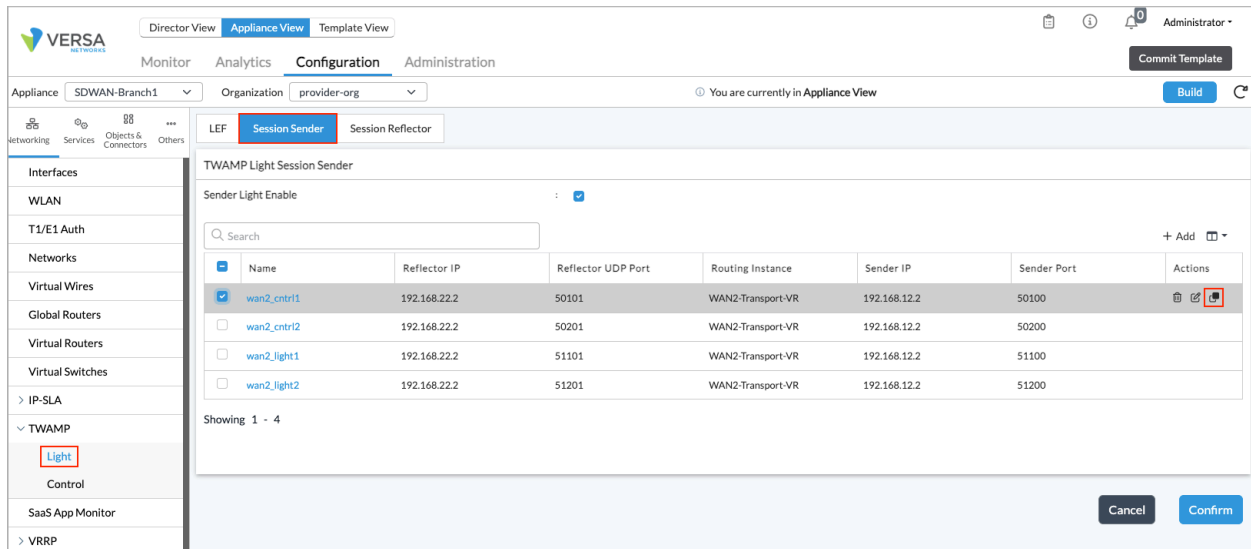
```


Clone a Test Session

You can clone an existing session sender or session reflector test session to create a copy of the session.

To clone an existing test session:

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliances in the left menu bar.
 - c. Click the appliance in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Networking > TWAMP > Light in the left menu bar. For Releases 22.1.1 and earlier, select Networking > TWAMP.
4. Select the Session Sender or Session Reflector tab.
5. In the Test Session table, select a session.



- Click the  Clone icon. The Edit TWAMP-Light Session Sender/Reflector Test Session popup window displays, and the existing session name is prefixed with the string "copy of."

The screenshot shows the 'Create TWAMP Light Session Sender Test Session' popup window. The 'Session Name' field is filled with 'Copy_of_wan2_cntrl1', which is circled in red. Other fields include Reflector IP (192.168.22.2), Sender UDP Port (50100), Routing Instance (WAN2-Transport-VR), and various test session parameters like First Percentile, Second Percentile, Third Percentile, Interval (msec), Number of Transmit Bunch Packets, DSCP Value, Number of Packets, Packet Padding Size, Repeat, Repeat Interval (seconds), Session Timeout (seconds), and Measurement Interval (seconds). The 'Test Session Enable' checkbox is checked, and the 'LEF' checkbox is also checked.

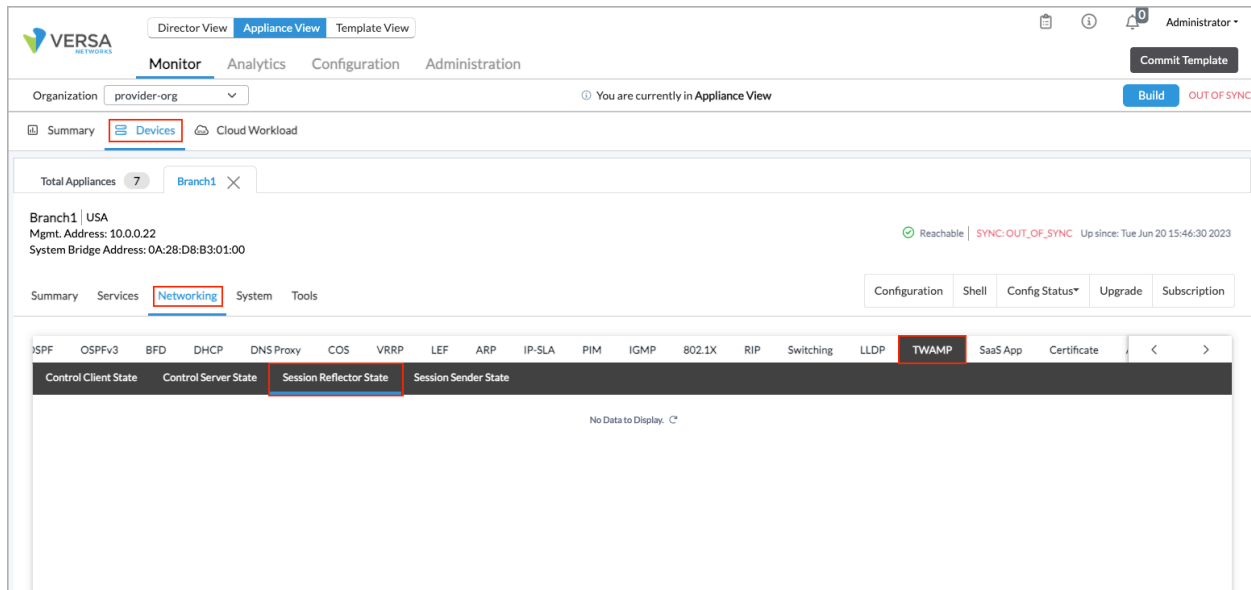
- Enter a name for the session in the Session Name field.
- Click OK.

Monitor Test Sessions

You can monitor TWAMP Light reflector and sender sessions to view the current state and statistics of the session.

To monitor a test session:

1. In Director view, select the Monitor tab in the top menu bar.
2. Select a provider organization in the Organization drop-down list.
3. Select the Networking tab in the horizontal menu bar.
4. Select TWAMP.
5. To view information about the session reflector state, select the Session Reflector State tab.



6. To view information about the session sender state, select the Session Sender State tab.

Director View **Appliance View** Template View

Monitor Analytics Configuration Administration

Organization provider-org You are currently in Appliance View Build

Summary **Devices** Cloud Workload

Total Appliances 4 SDWAN-Branch1 X

SDWAN-Branch1 | bengaluru, ka, india
Mgmt. Address: 10.0.0.8
System Bridge Address: 0A:C0:63:68:01:00

Reachable | SYNC: IN_SYNC Up since: Thu Jun 22 22:41:21 2023

Summary Services **Networking** System Tools

Configuration Shell Config Status Upgrade Subscription

Interfaces Routes BGP OSPF OSPFv3 BFD DHCP DNS Proxy COS VRRP LEF ARP IP-SLA PIM IGMP 802.1X RIP Switching LLDP **TWAMP**

Control Client State Control Server State Session Reflector State **Session Sender State**

Search

Session Name	Sender Session State	Current Stats	History Stats	Actions
wan2_cntrl1	ready	View	View	Start
wan2_cntrl2	ready	View	View	Start
wan2_light1	ready	View	View	Start
wan2_light2	ready	View	View	Start

7. In the Current Statistics column, click View to display the latest statistics for a session.

Current Stats

ID	Start Time	Packet Padding Size	Interval
6	1969-12-31T16:00:00-... 27		1000000

8. In the History Statistics column, click View to display the historical statistics for a sender session.

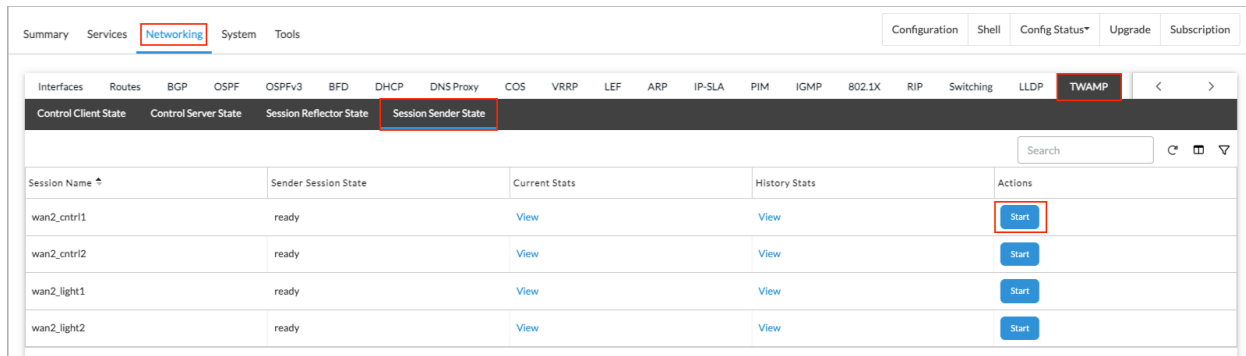
History Stats

ID	Start Time	End Time	Number Of Packets
6	2023-06-26T00:53:19....	2023-06-26T00:53:39....	10

Start, Stop, or Restart a Sender Test Session

To start a session sender session:

1. In Director view, select the Monitor tab in the top menu bar.
2. Select a provider organization in the Organization field.
3. Select the Networking tab in the horizontal menu bar.
4. Select TWAMP.
5. Select the Session Sender State tab.



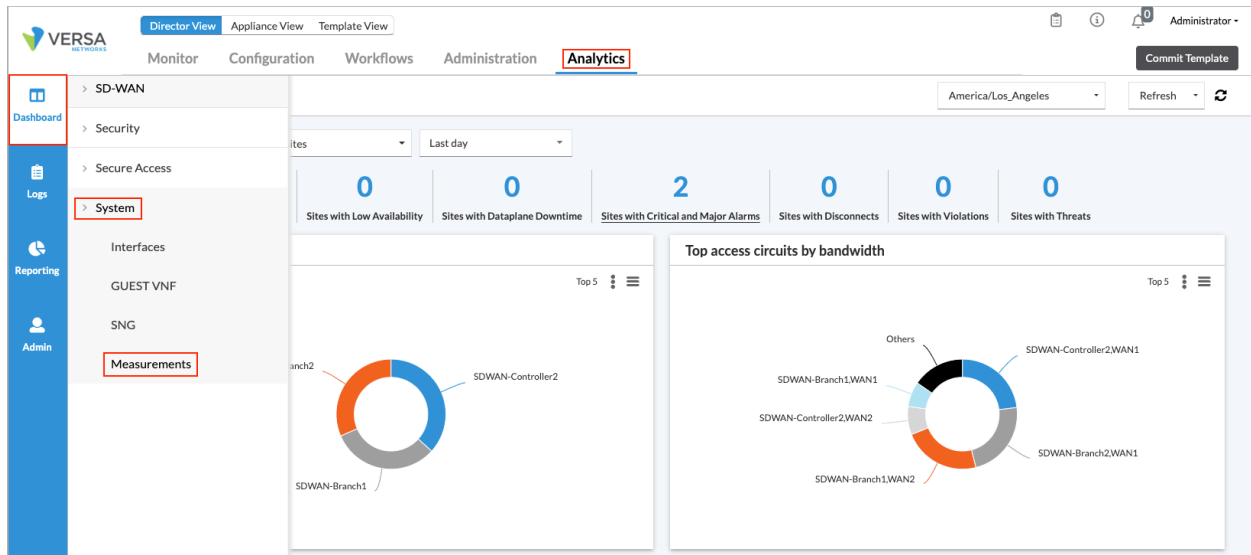
The screenshot shows the Versa Director interface. The top navigation bar includes 'Summary', 'Services', 'Networking' (highlighted with a red box), 'System', and 'Tools'. Below this is a secondary navigation bar with various protocols and services, including 'TWAMP' (highlighted with a red box). The main content area is titled 'Session Sender State' and contains a table with the following data:

Session Name	Sender Session State	Current Stats	History Stats	Actions
wan2_cntrl1	ready	View	View	Start (highlighted with a red box)
wan2_cntrl2	ready	View	View	Start
wan2_light1	ready	View	View	Start
wan2_light2	ready	View	View	Start

6. Click Start for the session you want to start.
7. To stop or restart a session, select the the Session Reflector State tab, and then click Stop to stop a running sender session or click Restart to restart a running sender session.


View TWAMP Light Measurement Statistics

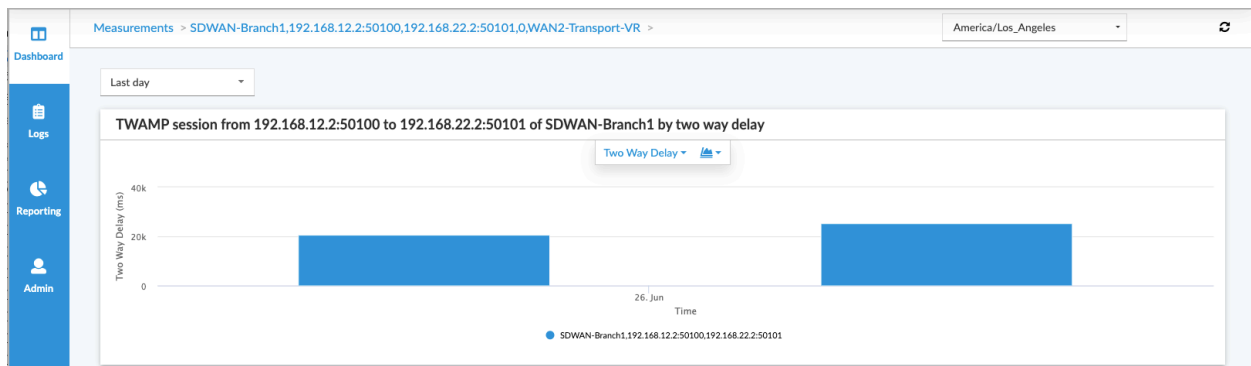
1. In Director view, select the Analytics tab from the top menu bar. The view changes to Analytics view.
2. Select Dashboard > System > Measurements in the left menu bar to view the entries for TWAMP Light measurements.



The screenshot shows the Versa Networks Analytics dashboard with the 'Measurements' section selected. It displays a table titled 'Two Way Active Measurements Protocol' with the following columns: Appliance, Source Address, Destination Address, DSCP, VRF Name, Packets Size (Bytes), Packets Count, Packets Loss, TX Packets, RX Packets, TX Packets Errors, and RX Packets. The table contains four rows of data for SDWAN-Branch1.

Appliance	Source Address	Destination Address	DSCP	VRF Name	Packets Size (Bytes)	Packets Count	Packets Loss	TX Packets	RX Packets	TX Packets Errors	RX Packets
SDWAN-Branch1	192.168.12.2:51200	192.168.22.2:51201	0	WAN2-Transport-VR	54	20	0	20	20	0	0
SDWAN-Branch1	192.168.12.2:50100	192.168.22.2:50101	0	WAN2-Transport-VR	54	20	0	20	20	0	0
SDWAN-Branch1	192.168.12.2:51100	192.168.22.2:51101	0	WAN2-Transport-VR	54	20	0	20	20	0	0
SDWAN-Branch1	192.168.12.2:50200	192.168.22.2:50201	0	WAN2-Transport-VR	54	20	0	20	20	0	0

3. Click the  Zoom icon to view the details in a time-based graph.



https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Common_Configuration/Configure_TWA...

Updated: Wed, 23 Oct 2024 08:23:40 GMT

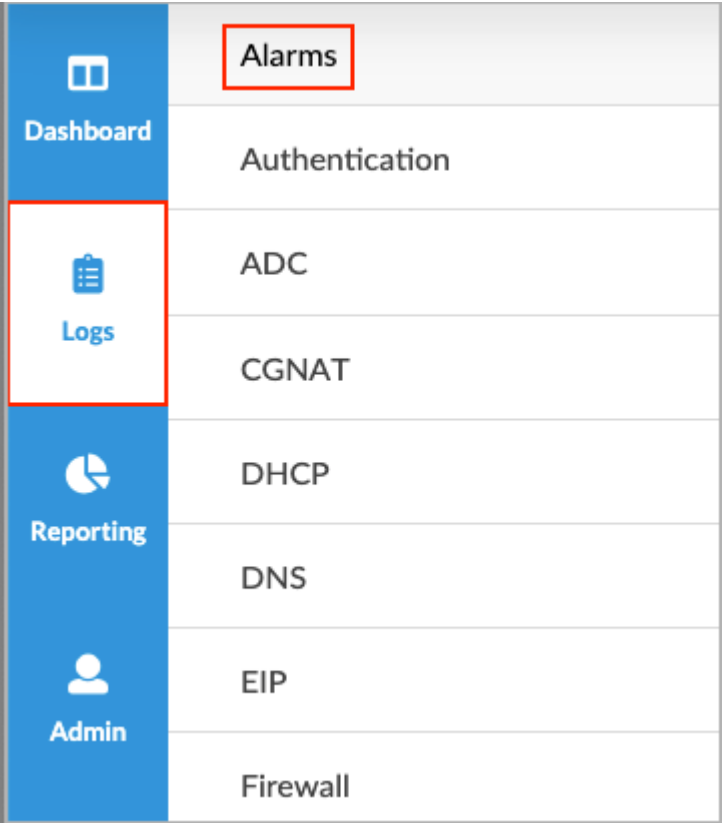
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View Test Session Alarms

When you create or delete sessions, alarms are generated for TWAMP Light sender and reflector test sessions.

To view alarms for session sender and reflector test sessions:

- 1. In Director view, select the Analytics tab from the top menu bar. The view changes to Analytics view.
- 2. Select Logs > Alarms in the left menu bar. You can use the filter to view TWAMP Light test sessions alarms.



Dashboard

Logs

Reporting

Admin

Alarm > Logs >

America/Los_Angeles

provider-org

all

Last day

Logs

Charts

Summary

Alarms

Set filters here...

Apply | Clear | Copy Filter

Show 10 entries

Receive Time	Severity	Appliance	Alarm Type	Description	Class	Key	Event Type	Kind	Clearable
Jun 26th 2023, 11:48:39 AM PDT	major	SDWAN-Branch2	config-change	Configuration changed : username (admin), context (netconf), time&date (Mon Jun 26 11:48:39 2023)	new	VSN-0	equipmentAlarm	symptom	no
Jun 26th 2023, 11:38:37 AM PDT	major	SDWAN-Branch2	config-change	Configuration changed : username (admin), context (netconf), time&date (Mon Jun 26 11:38:37 2023)	new	VSN-0	equipmentAlarm	symptom	no
Jun 26th 2023, 8:06:33 AM PDT	major	SDWAN-Branch2	config-change	Configuration changed : username (admin), context (netconf), time&date (Mon Jun 26 08:06:33 2023)	new	VSN-0	equipmentAlarm	symptom	no
Jun 26th 2023, 8:05:38 AM PDT	major	SDWAN-Branch2	config-change	Configuration changed : username (admin), context (netconf), time&date (Mon Jun 26 08:05:37 2023)	new	VSN-0	equipmentAlarm	symptom	no
Jun 26th 2023, 12:53:40 AM PDT	warning	SDWAN-Branch1	twamp-session-event	client session wan2_cntrl2 with obj-id 5 deleted	new	0	equipmentAlarm	symptom	no
Jun 26th 2023, 12:53:40 AM PDT	warning	SDWAN-Branch1	twamp-session-event	sender session wan2_cntrl2 with obj-id 7 deleted	new	0	equipmentAlarm	symptom	no
Jun 26th 2023, 12:53:39 AM PDT	warning	SDWAN-Branch1	twamp-session-event	client session wan2_cntrl1 with obj-id 4 deleted	new	0	equipmentAlarm	symptom	no
Jun 26th 2023, 12:53:39 AM PDT	warning	SDWAN-Branch1	twamp-session-event	sender session wan2_cntrl1 with obj-id 6 deleted	new	0	equipmentAlarm	symptom	no
Jun 26th 2023, 12:53:23 AM PDT	warning	SDWAN-Branch1	twamp-session-event	sender session wan2_light2 with obj-id 9 deleted	new	0	equipmentAlarm	symptom	no
Jun 26th 2023, 12:53:21 AM PDT	warning	SDWAN-Branch1	twamp-session-event	sender session wan2_light1 with obj-id 8 deleted	new	0	equipmentAlarm	symptom	no

Showing 1 to 10 of 70 entries

Previous

1

2

3

4

5

6

7

Next

To view the alarms from the CLI, issue the **show alarms last-n number | grep twamp** CLI command. For example:

```
admin@SDWAN-Branch1-cli> show alarms last-n 30 | grep twamp
twamp twampSessionEvent 2021-02-17T07:33:21-0800 Tenant1: rflctr session ref_auto_start with obj-id 1 created
twamp twampSessionEvent 2021-02-17T07:33:21-0800 Tenant1: rflctr session tst2 with obj-id 2 created
twamp twampSessionEvent 2021-02-17T07:33:48-0800 Tenant1: sender session tst2 with obj-id 2 created
twamp twampSessionEvent 2021-02-17T07:33:50-0800 Tenant1: sender session tst2 with obj-id 2 deleted
twamp twampSessionEvent 2021-02-17T07:33:56-0800 Tenant1: sender session tst4 with obj-id 4 created
twamp twampSessionEvent 2021-02-17T07:34:07-0800 Tenant1: sender session tst4 with obj-id 4 deleted
```

Supported Software Information

Releases 21.2.1 and later support all content described in this article, except:

- Release 22.1.2 supports Versa Analytics log export functionality (LEF) in TWAMP light sessions; ads the Light and Control menus were added in the left menu bar under Networking > TWAMP.
- Release 22.1.3 supports associating a TWAMP Light sender test session with a TWAMP Control client connection, TWAMP Light reflector test session with a TWAMP Control server connection, and auto-start for a TWAMP Light reflector test session.

Additional Information

[Configure TWAMP Control Client and Server Sessions](#)

[Monitor Device Services](#)

[TWAMP Logs](#)