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## Configure Digital Experience Monitoring

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

To periodically monitor the end-to-end network and application performance for an end-user device, you can enable digital experience monitoring (DEM) on remote secure access clients. When DEM is enabled on an end-user device, the SASE client collects the following metrics:

- Device memory, CPU, disk utilization, and battery life
- WiFi signal strength, and transmit and receive bandwidth per SSID
- Local network segment metrics such as delay, jitter, and packet loss
- Internet segment metrics such as delay, jitter, and loss, both end to end and for each hop level
- Application metrics such as DNS lookup time, TCP and SSL connect times, HTTP latency, time to first and last byte, delay, jitter, and packet loss to application server.

The SASE client sends these metrics to Versa Analytics, which uses them to derive an experience rank, known as the DEM rank, value that ranges from 1 through 100. A value of 1 represents the best experience for the user's device and applications and a value of 100 represents the worst experience. Versa Analytics also provides in-depth information about the experience at the tenant, gateway, device, and application levels.

To configure DEM, you do the following:

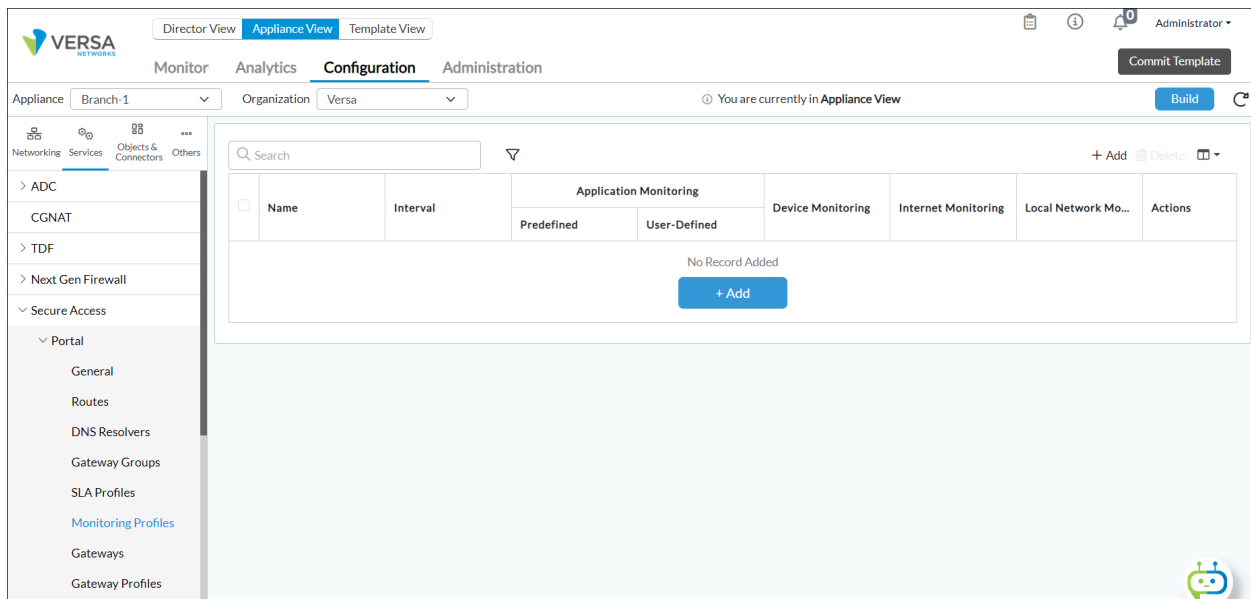
- Configure a monitoring profile—The monitoring profile includes DEM settings for SASE clients. SASE clients automatically collect DEM metrics based on these settings.
- Associate the monitoring profile with a secure access portal gateway profile—When the end user registers their SASE client using the secure access portal, the portal automatically pushes the monitoring profile's DEM settings to the user's device.
- Associate LEF profiles to all secure access gateway profiles—When the SASE client connects to any secure access gateway, the client periodically forwards its DEM data to the gateway. The gateway assembles DEM data from all its clients into DEM logs and forwards them to the destination of the gateways's associated LEF profile.

Note that you can export DEM logs only to Analytics nodes. You cannot export them to third-party logging systems, because the logs are in a proprietary format that may not be compatible with the third-party systems.

You can view DEM dashboards from the Analytics tab. For more information, see [View Digital Experience Monitoring Dashboards](#).

# Configure Monitoring Profiles

1. In Director view:
  - a. Select the Configuration tab in the top menu bar.
  - b. Select Templates > Device Templates in the horizontal menu bar.
  - c. Select an organization in the left menu bar.
  - d. Select a template in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Services > Secure Access > Portal > Monitoring Profiles in the left menu bar.



4. Click the **+ Add** Add icon. In the Add Monitoring Profiles popup window, enter information for the following fields.

Add Monitoring Profiles

Name \*

Description

Interval(secs)

300

☒ Device Monitoring
 ☒ Internet Monitoring
 ☒ Local Network Monitoring

Application Monitoring

Predefined Applications

Select Option

+

Dropbox

User-Defined Applications

Select Option

+

No Records to Display

OK

Cancel



Fields	Description
Name (Required)	Enter a name for the monitoring profile.
Description	Enter a text description for the monitoring profile.
Interval	Enter how often to monitor, in seconds.  <i>Default: 300 seconds</i>
Device Monitoring	Click to monitor the device health (memory, CPU, disk utilization, battery life etc.)
Internet Monitoring	Click to monitor the internet performance, including delay, hops, hop-by-hop latency, jitter, and packet loss.
Local Network Monitoring	Click to monitor the local network performance, including latency, jitter, packet loss, WiFi SSID, and signal strength.

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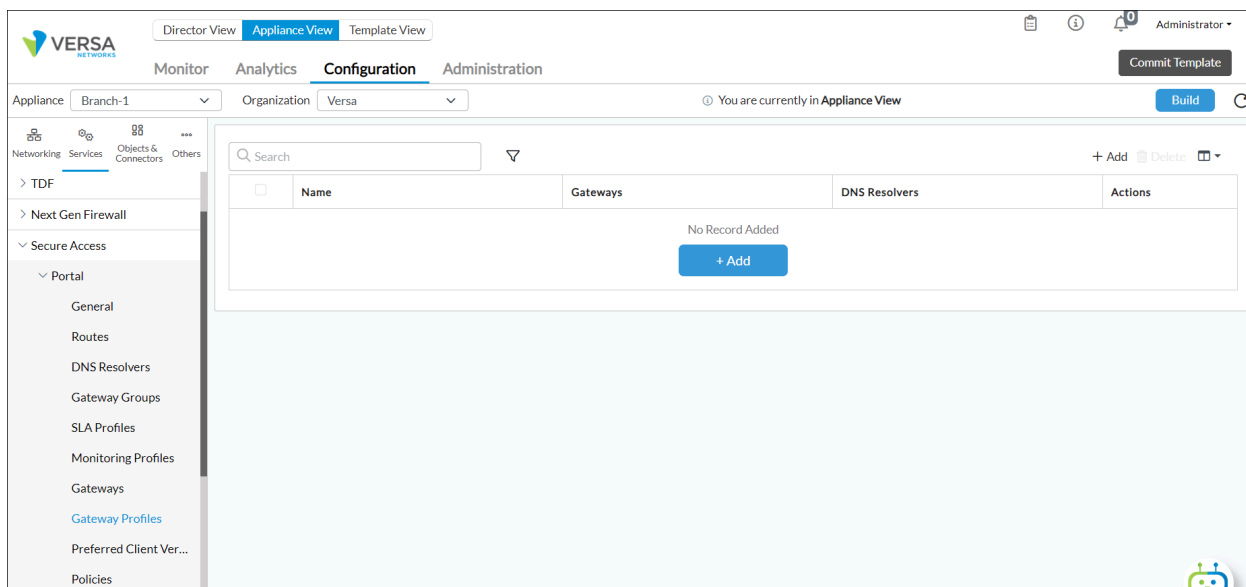
Fields	Description
Application Monitoring (Group of Fields)	
<ul style="list-style-type: none"> <li>Predefined Applications</li> </ul>	Select a predefined application, and then click the  Add icon to add the application.
<ul style="list-style-type: none"> <li>User-Defined Applications</li> </ul>	Select a user-defined application, and then click the  Add icon to add the application. For more information, see <a href="#">Configure Versa Secure Access Applications and Domains</a> .

5. Click OK.

## Associate a Monitoring Profile with a Gateway Profile

To associate a monitoring profile with a secure access portal gateway profile:

- In Director view:
  - Select the Configuration tab in the top menu bar.
  - Select Templates > Device Templates in the horizontal menu bar.
  - Select an organization in the left menu bar.
  - Select a template in the main pane. The view changes to Appliance view.
- Select the Configuration tab in the top menu bar.
- Select Services > Secure Access > Portal > Gateway Profiles in the left menu bar.



[https://docs.versa-networks.com/Security\\_Service\\_Edge\\_\(SSE\)/Configuration\\_from\\_Director/Versa\\_SASE\\_Client/Configure\\_...](https://docs.versa-networks.com/Security_Service_Edge_(SSE)/Configuration_from_Director/Versa_SASE_Client/Configure_...)

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- Click the **+ Add** Add icon. In the Add Gateway Profiles popup window, select General tab, and then select the monitoring profile.

The screenshot shows the 'Add Gateway Profiles' dialog box with the 'General' tab selected. The 'Name' field is empty. The 'Description' field is empty. The 'Monitoring Profile' dropdown menu is highlighted with a red box and shows '---Please Select---'. The 'Tunnel Order' section shows '---Please Select---' and a '+' button. The 'No Records to Display' message is visible. The 'OK' and 'Cancel' buttons are at the bottom right.


- Click OK.

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## Associate a LEF Profile with a Secure Access Gateway

- In Director view, select Appliance View. The Select Appliance popup window displays.
- Click the secure access gateway. The view changes to appliance view.
- Select the Configuration tab in the top menu bar.
- Select Services > Secure Access > Gateway > General in the left menu bar. The following screen displays.

The screenshot displays the Versa Networks configuration interface. At the top, there are tabs for 'Director View', 'Appliance View' (which is selected), and 'Template View'. Below these are navigation links for 'Monitor', 'Analytics', 'Configuration' (selected), and 'Administration'. A 'Commit Template' button is visible on the right. The main header shows 'Appliance' set to 'Bangalore-ECT-DC-Ac' and 'Organization' set to 'Corp-Inline-Provider'. A status bar indicates 'You are currently in Appliance View' with a 'Build' button and an 'OUT OF SYNC' warning. On the left, a sidebar contains icons for 'Networking', 'Services', 'Objects & Connectors', and 'Others'. Under 'Services', a search bar is present, followed by a list of service categories: 'CGNAT', 'Next Gen Firewall', 'Secure Access' (expanded), 'Portal', 'Gateway' (expanded), 'General' (highlighted in blue), 'Policies', 'TSA', 'SSL', 'IPsec', and 'SDWAN'. The main content area is titled 'General' and contains a list of configuration items: 'URI', 'Service Type', 'Authentication', 'Authenticator Profile', 'LEF Profile', 'Default LEF Profile', 'Device Authentication Profile', 'Query MDM', 'MDM Profile', 'Trusted Network Detection', 'Prelogon Device Auth Profile', and 'Authentication Order'. Each item has a status indicator on the right, mostly showing ': -'. An 'Edit' icon (a pencil inside a square) is highlighted with a red box in the top right corner of the 'General' pane.

5. Click the  Edit icon in the General pane. The Add Services popup window displays.

6. Select a LEF profile in the LEF Profile drop-down menu, or click Default LEF Profile to use the default. The LEF profile destination must be a Versa Analytics node or an ADC service on a Versa Controller node that relays the logs to a Versa Analytics node.
7. Click OK.

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## Supported Software Information

Releases 22.1.3 and later support all content described in this article.

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## Additional Information

[Apply Log Export Functionality](#)

[Configure the Versa Secure Access Service](#)

[Configure Versa Secure Access Applications and Domains](#)

[View Digital Experience Monitoring Dashboards](#)