# Oracle® Communications Session Monitor

**Release Notes** 





Oracle Communications Session Monitor Release Notes, Release 6.1

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### **About This Guide**

This document presents information about the Oracle Communications Session Monitor product family. The Session Monitor platform supports the following products:

- Oracle Communications Operations Monitor
- Oracle Communications Enterprise Operations Monitor
- Oracle Communications Control Plane Monitor

#### **Documentation Set**

Table 1 Documentation Suite for Session Monitor Release 6.1

Document Name	Document Description
Backup and Restore Guide	Provides instructions for backing up and restoring Session Monitor.
Developer Guide	Contains information for using the Session Monitor SAU Extension.
Installation Guide	Contains information for installing Session Monitor
Mediation Engine Connector User Guide	Contains information for configuring and using the Mediation Engine Connector.
Operations Monitor User Guide	Contains information for monitoring and troubleshooting IMS, VoLTE, and NGN networks using the Operations Monitor.
Release Notes	Contains information about the Session Monitor Release 6.1, including new features.
Security Guide	Contains information for securely configuring Session Monitor.
Upgrade Guide	Contains information for upgrading Session Monitor.



### **Revision History**

This section provides a revision history for this document.

Date	Description
December 2025	<ul> <li>Initial release. Includes updates on new and enhanced features in the Oracle Communications Session Monitor Release 6.1.</li> </ul>

### Introduction

The Oracle Communications Session Monitor *Release Notes* provide information about new features, enhancements, and changed functionality in Release 6.1.

### Session Monitor Supported Hardware

The products within the Oracle Communications Session Monitor suite are supported on Oracle.

The following table lists the hardware supported for Oracle systems.

Table 1-1 Supported Hardware for Oracle systems

Hardware	Supported Configurations
Server	The following severs are supported:     Oracle Server X9-2     Oracle Server X9-2L     Oracle Server X8-2     Oracle Server X7-2     Oracle Server X6-2     Oracle Server X6-2L
Network Adapter	The following adapters are supported:  Oracle Quad Port 10GBase-T Adapter

### Hardware Requirements for Production Systems

For production systems, Oracle recommends completing a detailed sizing and traffic profile analysis excercise, please contact your sales representative. Higher performance hardware may be required, for example, in cases with:

- High levels of monitored traffic
- High numbers of concurrent users
- High volumes of historical information

On the Mediation Engine machines, Oracle recommends using a RAID-10 array for the operating system and the database. A separate RAID-5 array is recommended for storing long-term data.

### Hardware Requirements for Demonstration Systems

For development or demonstrations systems with little network traffic, the following table lists the minimum requirements to install any of the Session Monitor machine types.



Table 1-2 Hardware Requirements for Demonstration Systems

Component	Minimum Requirement
Processor	2.6 GHz Intel Xeon processor, 64-bit with 8 processing threads
Memory	8 GB RAM
Disk Space	Total Storage Requirement: 80 GB (Storage on a hardware RAID controller)  Partitioning Options:  Single Partition Setup: - Minimum 50 GB free space under root (/ or /root/)  Dual Partition Setup: -  Database Partition: Minimum 10 GB free space  Application Partition: Minimum 50 GB free space
Ports	2 Ethernet ports

### Session Monitor Virtualization Support

This section describes the software and hardware requirements for Session Monitor virtualization.

#### **Hypervisor Support**

The following hypervisors are supported:

- VMware vSphere ESXI 8.0 VM
- VMware vSphere ESXI 7.0 VM
- Kernel-based Virtual Machine (KVM)

#### **Virtual Machine Requirements**

The following table lists the minimum requirements for the virtual machines.

Table 1-3 Hardware Requirements for Virtual Machines

Component	Requirement
Processor	8 vCPUs
Memory	8 GB RAM
Disk Space	80 GB
NIC Card	1 Gbps vNIC

### **Host Machine Requirements**

The physical machine that hosts the virtual machines should contain at a minimum the hardware resources that are required to host all the virtual machines, in addition to the hardware that is required for the hypervisor.



### Session Monitor Cloud Deployment

The following minimum shapes supported are as follows. For more information, see the Session MonitorInstallation Guide.

Google Cloud Platform: n2-standard-8

OCI Cloud: VM Standard 2.8

Azure: Standard F8sAWS : c5.4xlarge

### Session Monitor Operating System Requirements

Oracle Communications Sessions Monitor is offered as a set of Linux applications. The latest version of Session Monitor Release 6.1 has been tested, benchmarked and certified on the Oracle Linux platform as mentioned in the table below.

Oracle Linux is binary compatible with the RHEL Kernel, and Session Monitor has been tested with Oracle Linux Kernel as mentioned in the table below. Customers who want to use Session Monitor with RHEL are encouraged to install and test Session Monitor on the version of RHEL compatible with supported Oracle Linux version.

In this case, performance and capacity characteristics may vary from those tested while running Session Monitor on Oracle Linux. When Session Monitor is deployed on RHEL, Oracle continues to support Session Monitor when installed on the base RHEL without any customizations.

In case of issues where Oracle Support determines to be related to RHEL, the customer will be directed to work with RedHat support organization for issue resolution.

The following table lists the supported operating systems for running Session Monitor.

Table 1-4 Supported Operating Systems

Product	Version	Notes
Oracle Linux 9 x86-64 (64 bit)	Version 9.6 (with Oracle UE Kernel for Linux)	By default Oracle Linux installs Kernel 6. Oracle recommends that the latest Unbreakable Enterprise (UE) Kernel 5 is installed.
Red Hat Enterprise Linux 9	Version 9	See clarification above.

### Note

- · You must configure a network device when installing Oracle Linux 9.
- If required, update the DPDK drivers.

### **Session Monitor Connectivity**

Following are Session Monitor connectivity details:



- One Aggregation Engine (Operations Monitor's Mediation Engine Connector feature):
   Supports up to 64 Mediation Engines
- One Mediation Engine (Operations Monitor, Control Plane Monitor): Supports up to
  - Native-Only Probes:
    - \* Media+Sig; Signalling-Only: 128
    - \* Packet Inspector: 16
  - Embedded-Only Probes (Session Border Controller as a probe):
    - \* < 500 parallel calls per Session Border Controller: 1k (might require some manual tweaking, unlimit open files)</p>
    - \* >= 500 parallel calls per Session Border Controller: 128
- Mixture of SBC and native probes: 128 (individual limits still apply)
- One Probe (Operations Monitor, Control Plane Monitor) or Session Border Controllerprobe can be connected to up to:
  - Probe: 2 Mediation Engines
  - SBC: 8 Mediation Engines
- One Mediation Engine (Operations Monitor, Control Plane Monitor): Connected to up to 1
  Aggregation Engine

### Session Monitor Software Requirements

The table lists the supported client browsers:

Table 1-5 Supported Client Browsers

Browser	Version
Mozilla Firefox	142.0 or later version
Apple Safari	26.1or higher version (20622.2.11.119.1)
Google Chrome	142.0.7444.176 or later version
Opera	116.0.5366.71 or later version
Microsoft Edge	142.0.3595.80 or later version

### Compatibility Matrix for Session Monitor

The following products can be configured with Session Monitor:

Product Name	Version
DPDK	24.11.2
SP-Session Border Controller	S-Cz 10.0.0 Patch 4 Works with Operations Monitor and Enterprise Operations Monitor
E-Session Border Controller	S-Cz 10.0.0 Patch 4 Works with Operations Monitor and Enterprise Operations Monitor
Enterprise Communications Broker	P-Cz 4.2.0 GA



### Session Border Controller Supported Versions

The table lists supported Session Border Controller (SBC) versions.

**Supported Session Border Controller Versions** 

Product	Versions
Enterprise Session Border Controller (E-SBC)	• S-Cz10.0.0 P4
	• S-Cz9.3.0 P9
	• S-Cz9.2.0
	• S-Cz9.1.0
	• S-Cz9.0.0
	• S-Cz8.4.0
	• S-Cz8.3.0
	• S-Cz8.2.0
	• E-Cz8.1.0
	• E-Cz8.0.0
	• E-Cz7.5.0
	• E-Cz7.4.0
	• E-Cz7.3.0
Session Border Controller (SBC)	• S-Cz10.0.0 P4
	• S-Cz9.3.0 P9
	• S-Cz9.2.0
	• S-Cz9.1.0
	• S-Cz9.0.0
	• S-Cz8.4.0
	• S-Cz8.3.0
	• S-Cz8.2.0
	• S-Cz8.1.0
	• S-Cz8.0.0
	• S-Cz7.5.0
	• S-Cz7.4.0
	• S-Cz7.3.0

### **Database Support**

The following databases are supported by Session Monitor.



### **⚠** Caution

Starting with Session Monitor Release 6.1, MySQL Database and MySQL Connector is shipped with the new Session-Monitor-6.1.0.0.0.zip bundle and is automatically installed as part of the new installation/upgrade procedure. Separate installation is not required.

### **MySQL Commercial Edition**

This release is compatible with the following versions of MySQL Commercial Edition:

MySQL 8.4.6



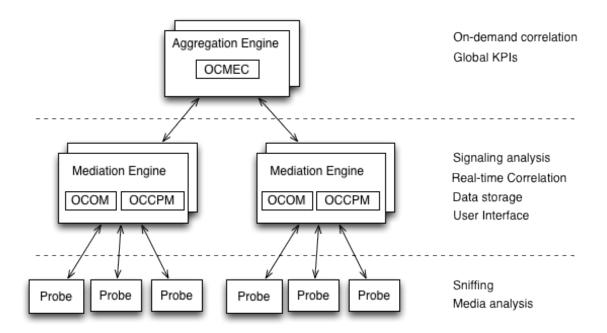
MySQL Connector 8.4.0

### Session Monitor System Architecture

The Session Monitor system works by capturing the traffic from your network, correlating it in real-time, and storing it in indexed formats so that they are available for the various reports offered by the web interface.

The Session Monitor system architecture has three layers:

- Probe layer: This layer is responsible for capturing the traffic from your network and
  performing the Media Quality analysis. The probes send meta-data for each of the
  signaling messages to the Mediation Engine layer and analyze the RTP streams locally,
  sending the results of this analysis to the Mediation Engine layer.
- Mediation Engine layer: This layer is responsible for understanding in real-time the traffic
  received, correlating it and storing it for future reference. This layer is also responsible for
  measuring, managing, and storing the KPIs. In the common case, there is one Mediation
  Engine per geographical site. It is possible, however, to have the probes from multiple
  geographical sites sending the traffic to a single Mediation Engine. It is also possible to
  have multiple Mediation Engine installations in the same geographical site.
- Aggregation Engine layer: This layer is responsible for aggregating the global KPIs from all the Mediation Engine linked to it, and for the global search features. In a typical setup, there is only one AE for the whole network.



In the diagram above, acronyms have been used for the following products:

Table 1-7 Acronyms

Acronym	Product Name
ОССРМ	Oracle Communications Control Plane Monitor
OCMEC	Oracle Communications Mediation Engine Connector



### Table 1-7 (Cont.) Acronyms

Acronym	Product Name
ОСОМ	Oracle Communications Operations Monitor
OCSM	Oracle Communications Session Monitor

Each of the three layers supports high-availability by deploying two identical servers in active-passive or active-active modes of operation. For small setups, it is possible to run the probe layer and the Mediation Engine layer on the same physical hardware. The Aggregation Engine layer always requires its own hardware.

From the Session Monitor products perspective, the Operations Monitor and the Control Plane Monitor run on the Mediation Engine while the Mediation Engine Connector runs on the Aggregation Engine.

### **Upgrade Information**

For upgrade related information, see the <u>Oracle Communications Session Monitor Upgrade</u> <u>Guide Release 6.1</u>.

## New Features and Enhancements in Session Monitor Release 6.1

Session Monitor Release 6.1 includes the following new features, enhancements, and changed functionality:

#### **New Features List**

- 1. GUI Enhancements
- STIR/Shaken Monitoring
- 3. Obfuscation of Sensitive Information
- 4. Custom Header Based Realm Pattern for Registrations
- 5. Session Monitor PSA Certificate Parameter Configuration
- 6. CSV Enhancement Timezone Configuration
- 7. CSV Enhancement Increase Row Count in Export
- 8. Secure Radius Support
- 9. Media Quality Enhancement Voice Quality Alerting
- 10. Exclude Filter in Calls Table
- 11. Custom Header Admin Enhancement
- 12. Storage Expansion Support
- 13. SCTP multi-homing
- 14. GCP Support

#### **GUI Enhancements**

GUI Enhancements ensure intuitive and interactive experience for the end-user. For more information, see GUI Enhancements in Session Monitor Release 6.1

#### STIR SHAKEN Monitoring HTTP/JSON Correlation with SIP

Session Monitor's STIR/SHAKEN monitoring feature allows the operations teams to monitor STIR/SHAKEN transactions between the SBC and both Secure Telephone Identity - Authentication Service (STI-AS) and Secure Telephone Identity - Verification Service (STI-VS) to determine if a call has been signed by the service and to troubleshoot potential call signing issues. A robust set of reporting and KPIs allows users to better track call signing across their SBC network elements in real time. For more information, see the Session Monitor Release 6.1 User Guide, and the Session Monitor Release 6.1 Installation Guide



STIR/SHAKEN monitoring is supported only with SBC versions SCz 10.0 P5 and above.



#### **Obfuscation of Sensitive Information**

Obfuscation allows users to mask sensitive call data—like IP addresses, phone numbers, and device names—when exporting ladder diagrams (PDF, HTML, SVG). Masking applies only to exported content (except SVG, which is also masked in the UI), while the original data remains visible in the interface. Users can customize which SIP headers are masked, with obfuscation applying to message flows and structure sections across multiple panels, ensuring enhanced data privacy for all future exports. For more information, see the Session Monitor Release 6.1 Operations Monitor User Guide.

#### **Custom Header Based Realm Pattern for Registrations**

Session Monitor allows you to specify a SIP header field for custom realm patterns, enabling greater flexibility in defining realm boundaries. With this enhancement, registration traffic and KPIs now reflect only the calls and registrations matching the custom realm definition. This ensures accurate association of KPIs and user profiles for realms defined by custom header patterns, delivering improved visibility and control for both administrators and end-users.

#### **Session Monitor PSA Certificate Parameter Configuration**

Session Monitor Release 6.1 adds GUI-based certificate management, enabling flexible key generation with multiple algorithm and size options (RSA - 2048, 3072 & 4096, ECDSA - 256 & 384). You can customize CSRs and certificates with additional parameters, create key pairs, and regenerate certificates—all directly from the PSA page.

#### **CSV Enhancement – Timezone Configuration**

This feature lets you align reporting intervals with local time zones instead of UTC, ensuring data is calculated for complete local hours and improving consistency with other network elements and reports.

### **CSV Enhancement – Increase Row Count in Export**

This release raises the CSV export limit from 500,000 to 1 million records per export, allowing larger data extraction in one step. Exports support up to 42 days of data, but each file is capped at 1 million records; you can extend coverage by selecting new date ranges after each export. The export workflow and filters remain unchanged, providing greater flexibility and efficiency for large dataset analysis or archiving.

#### **Secure Radius Support**

Session Monitor supports RadSec (RADIUS over TLS) as an optional configuration for external authentication, enhancing security over standard RADIUS by encrypting communications with TLS.

#### Media Quality Enhancement - Voice Quality Alerting

This feature enables users to set customizable voice quality alerts (MOS, packet loss, jitter) per device, supporting up to 20 devices per alert definition. Thresholds trigger alerts based on the percentage of impacted calls, calculated separately for each device and for both directions. If no devices are specified, alerts apply platform-wide, enhancing monitoring and response to voice quality problems.

#### **Exclude Filter in Calls Table**

This feature lets users to exclude up to five numbers per category (Caller, Callee, or Both) from the calls table. If the limit is reached, new numbers default to "Not Excluded" and a warning is



shown; users must un-exclude an existing number to activate a new exclusion. Excluded numbers can be deleted, ensuring efficient and clear management within category limits.

#### **Custom Header Admin Enhancement**

This feature introduces a "Modify Custom Headers" permission, allowing admins to control who can access custom header settings. Only authorized users see or manage custom headers; others have the section hidden, improving security and simplifying the interface. Access is strictly based on user permissions.

#### **Storage Expansion Support**

The Session Monitor Storage Expansion script enables real-time Mediation Engine Storage scaling with no downtime, supporting both Single Disk (shared MySQL and block storage) and Dual Disk (separate partitions) systems. Single Disk setups allow a single size input, while Dual Disk setups offer separate resizing for MySQL and block storage. Use the ocsm-resize-storage CLI command for flexible, efficient storage management across deployments.

#### **SCTP Multi-homing**

This feature adds advanced SCTP multihoming support for Diameter by allowing request-response matching based solely on End-to-End Identifier (e2e), not IP. Enabling the flag ensures accurate correlation even when messages use different IP paths, improving reliability for multihomed environments without affecting single-homing setups. The setting impacts message matching across all UI views and exports, and can be toggled as needed.

#### **GCP Support**

With Session Monitor Release 6.1, you can deploy Operations Monitor, Mediation Engine, Connector, and Probes on Google Cloud Platform (GCP) VMs, using virtual SBCs on GCP. GCP support ensures Session Monitor can be co-hosted for integrated solutions and aligns with other cloud deployment options.

### GUI Enhancements in Session Monitor Release 6.1

Here's a summary of the GUI Enhancements made in Session Monitor Release 6.1.

Table 2-1 GUI Enhancements

Enhancements	Description	
Message flow Enhancement	Uses non-OJET libraries to accelerate rendering performance.	
My Favorites	The My Favorites option allows you to view and manage pages marked as Favorites within the application. It provides quick access to frequently used or preferred items without having to search for them each time.	
Search option in VQ Trunks/Devices	A common search filter across both devices and Trunks on the Voice Quality Page.	
Zoom level in Dashboard panels	<ul> <li>You can now select a preferred zoom level for KPI panels on the Dashboard.</li> <li>The selected zoom level persists across logouts and page refreshes.</li> <li>When Show in KPI/Metrics is clicked, the KPI page zoom matches the Dashboard panel's setting.</li> </ul>	



Table 2-1 (Cont.) GUI Enhancements

Enhancements	Description	
Bar chart in Dashboard panels	<ul> <li>When adding a panel from KPI/Metrics to the dashboard and a bar chart is selected, the bar chart also appears on the Dashboard.</li> <li>This chart selection persists across logouts and refreshes.</li> <li>Clicking Show in KPI/Metrics updates the KPI page to display the bar chart also.</li> </ul>	
What's New - based on Release number	<ul> <li>A new drop-down allows you to select a Release number to view What's New. By default, it shows the current release, with an option to see what was newly released in the previous release.</li> <li>Selecting a different Release from the drop- down opens the corresponding What's New page in a new tab.</li> </ul>	
Probes Bandwidth Error	Shows an error message in the header on the GUI when the Total Probe Bandwidth goes above 900 Mbps The logs also show this error.	
Search in Device Order	You can search for devices in the Device Order modal in the Platform Devices. It also shows the total result count.	
Show sub-users while deleting	When you try to delete a user which has sub users created under, an error message is shown in the list of the dependent sub-users.	
Accessibility Fixes	Single pointer drag and drop for panels in Dashboard (all tabs).	
Show Mask in Password	Password is masked in all places where we have a password field. For example: My Profile, Add/Edit User, Login pages.	
Top 10 Devices Chart	Displays the chart for Top 10 Devices.	
Savepoint Optimization	With this optimization, you can view details of the uploaded Savepoint by selecting a file in the table and clicking the new Details button. They can access more information about the background processes during a Savepoint restore. You can also view related logs.	
Split Button in Call Details/Registration Details/ Subscription Details For Message Flow and PCAP	The split button in Message Flow and PCAP within Call Info, Registration Details, and Subscription Details allows you to quickly perform primary actions using the main button. To access additional options—such as Open in new window, SVG, or Save as (for PCAP)—click the arrow next to the main button.	
New Drag Handle in Edit Advanced filter rows	A new drag handle has been added to each filter row in Edit Advanced, allows you to reorder filters more easily.	
Tabbed KPI	The Operations → KPI Metrics page will support multiple KPI views, organized by tabs. Each tab allows users to select up to 8 independent KPIs. The Favorites section will remain consistent across all tabs.	

### Resolved Issues

The following table lists resolved issues in Oracle Communications Session Monitor Release 6.1.

ID	Severity	Fixed in Label	Description
37343790	3	6.1.0.0.0	Unable to upload SBC configuration which have FQDN agents
37422097	3	6.1.0.0.0	Transit Time Peaks in Operations Monitor.
37662503	3	6.1.0.0.0	Session Monitor 5.2 P4 and 6.0 slow response.
37718944	2	6.1.0.0.0	Control Plane Monitor + Mediation Engine - Calls Page Loading Issue.
37720314	2	6.1.0.0.0	Admin user does not have control over Operations Monitor if it is Realm is changed.
37752538	2	6.1.0.0.0	DPDK cannot be installed on Operations Monitor Release 6.0.
37756549	3	6.1.0.0.0	kernel pld-rat segfault after 6.0 upgrade.
37779879	2	6.1.0.0.0	Control Plane Monitor + Mediation Engine - Problem in Trunk / Prefixes GUI.
37800408	2	6.1.0.0.0	Configuration error with Data Retention parameter change.
37820896	3	6.1.0.0.0	Duplicate diversion header in Operations Manager.
37869465	3	6.1.0.0.0	Operations Manager assigns Device Name as SA Description After SBC Backup Upload.
37915644	3	6.1.0.0.0	Advanced Search on Device not working.
37918439	3	6.1.0.0.0	Highlights: Probe Bandwidth unit displayed incorrectly; Stale highlights time.
37918626	3	6.1.0.0.0	Limit Warning: No Probe bandwidth warning shown if the total bandwidth crosses supported limit.



ID	Severity	Fixed in Label	Description
37926249	3	6.1.0.0.0	6.0 P1 WS - call shows the incorrect time when selected 'absolute time' on the message flow
37959996	3	6.1.0.0.0	Discrepancy in Jitter calculation for IPFIX call
38043912	3	6.1.0.0.0	Duplicate RTP stats in the message flow
38080851	3	6.1.0.0.0	MEC call correlation failed after upgraded to 5.2.0.0.5
38127755	3	6.1.0.0.0	Advanced Search on Device not working
38145508	4	6.1.0.0.0	OCOM Active Call Graph not automatically refreshing
38181652	3	6.1.0.0.0	user permissions not working correct in MEC 5.2.
38235952	2	6.1.0.0.0	pld-meco.service crashes regularly after 6.0.0.0.2 upgrade.
38261256	3	6.1.0.0.0	OCOM MEC Graph display issue
38284877	4	6.1.0.0.0	KPI/Metrics not displayed correctly from the link on Dashboard
38287322	3	6.1.0.0.0	MEC: Unable to select phone numbers.
38308957	3	6.1.0.0.0	OCOM settings option intermittently missing
38383947	3	6.1.0.0.0	MEC: Issues with User permission on MEC
38414491	4	6.1.0.0.0	Login failed after disabled then re-enabled a user
38434724	3	6.1.0.0.0	Alert description with special character is not displaying properly
38436290	4	6.1.0.0.0	Message Flow ladder diagram 'Start Time' incorrect vs start time of call.
38439676	2	6.1.0.0.0	Realm Patter export is incomplete.
38487644	2	6.1.0.0.0	Webgui performance issues while running the rest api queries in 6.0p2
38519386	3	6.1.0.0.0	Web GUI performance Issue after an upgrade

### **Known Issues**

The following tables list known issues in Oracle Communications Session Monitor Release 6.1

#### **Known Issues**

The following table provides a list of known issues in Release 6.1.

ID	Description	Severity	Found in	
37618064	No UCaaS CCaaS meta data found alarm.	3	6.0.0.0	
38664248	Issue with OL9.6 UEK 6 support.	3	6.1.0.0.0	
34267309	No left-side Index/ Search in the web browser for local Help files	4	6.1.0.0.0	