

# Unlocking Network Insights with Oracle Session Delivery Management Cloud – Reporting and Analytics

Learn how disparate network data can be harnessed through Oracle Session Delivery Management Cloud's advanced reporting and analytics capabilities to provide deep, actionable insights

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# Introduction

In today’s hyper-connected world, voice network administrators need fast, flexible access to real-time data from their network functions to ensure they are able to effectively monitor and manage their voice infrastructure.

Traditional business intelligence (BI) systems and network function capabilities may sometimes fall short, being either too rigid, localized or requiring specialized technical know-how to collect, aggregate, build, and maintain reports and visualizations to assist with network insights.

This solution brief explores how disparate network session data can be harnessed through Oracle Session Delivery Management Cloud’s reporting and analytics capability to provide actionable insights without requiring sophisticated technical expertise or custom code. By empowering network teams with self-service analytics, organizations can proactively monitor network health, identify trends, and forecast utilization.

## Operational challenges of handling network data

Despite the value of the session border controller (SBC) and the complex data it provides, network teams face several operational challenges:

1. **Disparate Data Sources:** SBCs and other network functions often use different data sources, formats, and protocols, making consistent data ingestion and normalization a complex task.
2. **Fragmented Systems:** Data may reside in separate silos across on-premises systems, data lakes, and cloud tools, lacking a unified access layer.
3. **Time-Consuming Preparation:** Manual data cleaning, transformation, and aggregation require significant technical skill and time, limiting real-time responsiveness.
4. **Lack of Standardization:** Inconsistent logging structures, timestamp mismatches, and varying KPIs across systems complicate trend analysis and cross-functional visibility.

These challenges make it difficult for network management and monitoring users to aggregate network monitoring and health data and derive insights in real time. Challenged by a lack of technical expertise and complex systems, building a unified data and visualization layer for contextualized analytics is time-consuming.

## Democratizing Network Intelligence with Oracle Session Delivery Management Cloud - reporting and analytics

Oracle Session Delivery Management Cloud’s advanced reporting and analytics capabilities (Fig 1) can help reduce manual effort for network teams through pre-built data connections to collect network functions’ historical data recordings (HDR), and auto aggregate the data across time dimensions.

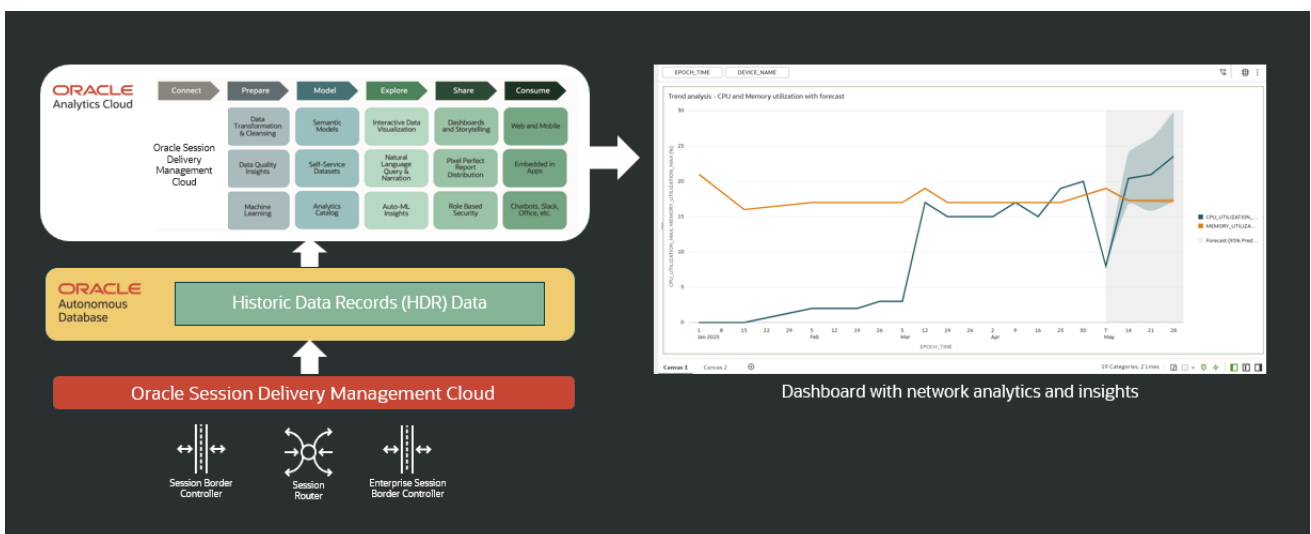


Fig 1: Session Delivery Management Cloud’s Reporting and Analytics – overview

Reporting and analytics, powered by Oracle Analytics Cloud, offers a no-code environment that helps business users and network operations teams to drag and drop network data (fig 1.1) to build simple, intuitive custom dashboards - Using AI-powered assistive recommendations users can select suggested visualizations for the network data (fig 1.2).

Applying built-in machine learning and analytics tools such as clustering, outlier analysis and forecasting (fig 2.1 and 2.2) can help network monitoring teams surface insights faster and support root-cause investigation.

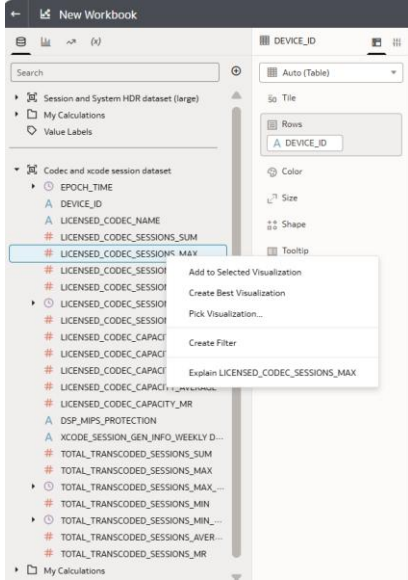


Fig 1.1: Drag and drop data - use recommended visualization or create custom visualizations.

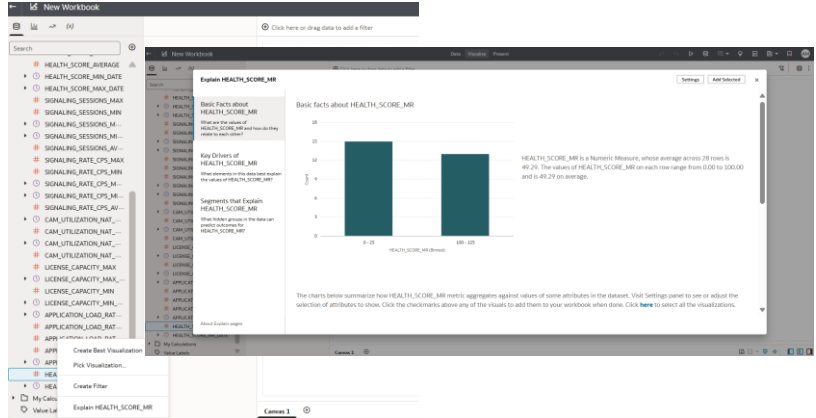


Fig 1.2 : Applying “Explain data” to Health Score – Generative AI can generate an explanation of the data set – such as key drivers, segments and detected anomalies – allowing users to quickly generate insights.

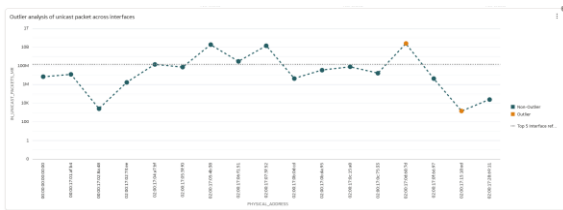


Fig2.1: Apply Outlier analysis to any data parameter to generate and view insights.

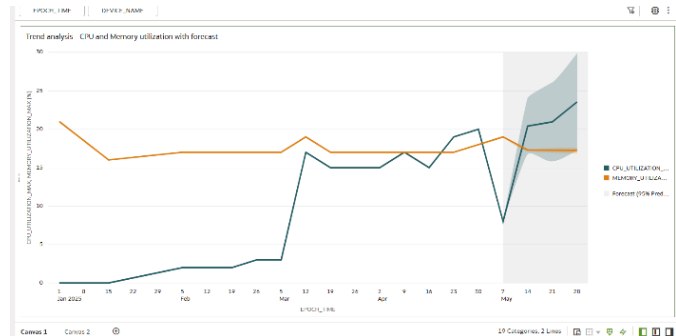


Fig 2.2: Applying statistical forecasting (Seasonal Arima) to CPU and Memory utilization for network functions – 3 time periods into the future for network function utilization forecasting.

## Key Features

### Data integration and preparation

Oracle Session Delivery Management Cloud enables network teams to seamlessly connect to Oracle SBCs allowing them to perform configurations for continually polling, aggregating, and storing HDR data from the SBCs.

### Advanced visualization and analytics

- **Custom dashboards:** Using the raw and aggregated data, business users and network operations teams can build custom, interactive dashboards choosing from multiple visualization types.
- **Anomaly detection:** Network monitoring teams can leverage advanced analytics and assistive generative AI capabilities to help automate anomaly detection and outlier analysis. Using a wide array of analytics capabilities including trend lines, reference lines, forecasting etc., network monitoring teams can easily analyze multiple data pointers, and unearth abnormal signaling/traffic patterns in real time.
- **Root-cause analysis:** Network monitoring teams can use advanced filtering capabilities to drill-down from network-wide trends to specific SIP trunks, or devices level views for both long term trends and short-term data assessment — which can help accelerate root-cause analysis and support faster troubleshooting.

- **Knowledge sharing:** Network administrators can create and share reports across team members without specialist intervention, which can help reduce time spent on incident investigation and improve knowledge sharing.

## Kickstart your network analytics

Oracle Session Delivery Management Cloud's reporting and analytics can help network administrators and business users work with technical data and visualize complex information into a single, customized dashboard.

The self-service analytics capabilities with assistive recommendation helps network operations teams to kick start their analytics journey. The no-code interface helps improve accessibility, while the cloud-native architecture is designed to support performance and scalability, with AI-ready capabilities.

By transforming historical data records into real-time, visual, and predictive insights, organizations can shift from reactive troubleshooting toward more proactive optimization.

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