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Oracle Utilities Generation Asset Manager Cloud Service

View, track, and understand the real-time and historical performance of your renewable and traditional generation assets, storage, and load with Oracle Utilities Generation Asset Manager Cloud Service.

Visualize the real-time state of generation assets

Every day the challenge of delivering reliable power at the lowest cost grows more complex. Consumer demand for renewable energy and regulations like FERC 2222 continue to fuel the growth of distributed energy resources (DERs) and add an ever-growing array of variables for operators and managers to optimize.

Oracle Utilities Generation Asset Manager Cloud Service (GAM CS) is a cloud native generation asset management tool that helps renewable and traditional generation operators view, track, and understand the real-time and historical performance of their legacy, current, and future generation and storage assets as well as the load associated with those assets.

Figure 1. Oracle Utilities GAM CS – View the real-time time state of your generation assets.

Tightly integrated to Oracle Utilities Live Energy Connect (Oracle Utilities LEC), this highly scalable solution is designed for the needs of power market participants and the perfect operational awareness tool to visualize your OT and IT infrastructure.

Key Features

- Centralized real-time, and historical data
- Fuse OT and IT data
- Cloud native and ready-to-use across the organization
- Real-time failure detection and alarming
- Flexible visualization screens
- Simplified management of input and output data
- Device-level power generation tracking

Key Benefits

Oracle Utilities GAM CS helps utilities

- Visualize the real-time state of renewable and traditional generation assets
- Retrieve, track, and understand real-time and historical time series data
- Create technical and economic situational awareness
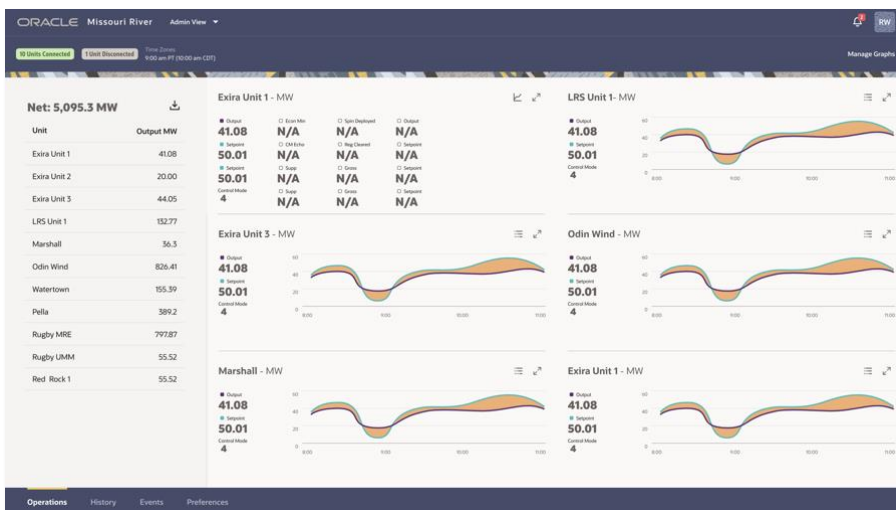- Build real-time operational intelligence

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Accelerate Operations

Oracle Utilities GAM CS is more than a simple visualization tool, it fuses operational technology (OT) and information technology (IT) data to create a centralized system of record for Generation, Forecasting, Settlements, Operations, and Transmission to accelerate operations by eliminating routine messaging and calls between departments and react to change faster than ever.

Oracle Utilities GAM CS fulfills power generation customers' demands for an integrated cloud application to operationalize real-time data and enable coordination in the capacity, future, and real-time markets.

Collect archive and retrieve data in real time

Simplify the process of gathering operational data, Oracle Utilities GAM CS includes an embedded historian and seamlessly integrates into Oracle Utilities Analytics Visualizations platform for rapid analytics and business intelligence application development. The Oracle Database Cloud runs on Oracle Exadata, a wholly-owned secure cloud infrastructure that is trusted by thousands globally and has a 1TB per second in memory throughput. This is the first of a family of Oracle Utilities OT historian products.

A complete application and cloud infrastructure solution in one turnkey package

Get started and running faster. Delivered as a turnkey cloud solution, Oracle Utilities GAM CS eliminates the need to install software, build a separate cloud infrastructure, and all the associated maintenance.

How it works

Figure 2. Oracle Utilities GAM CS architecture
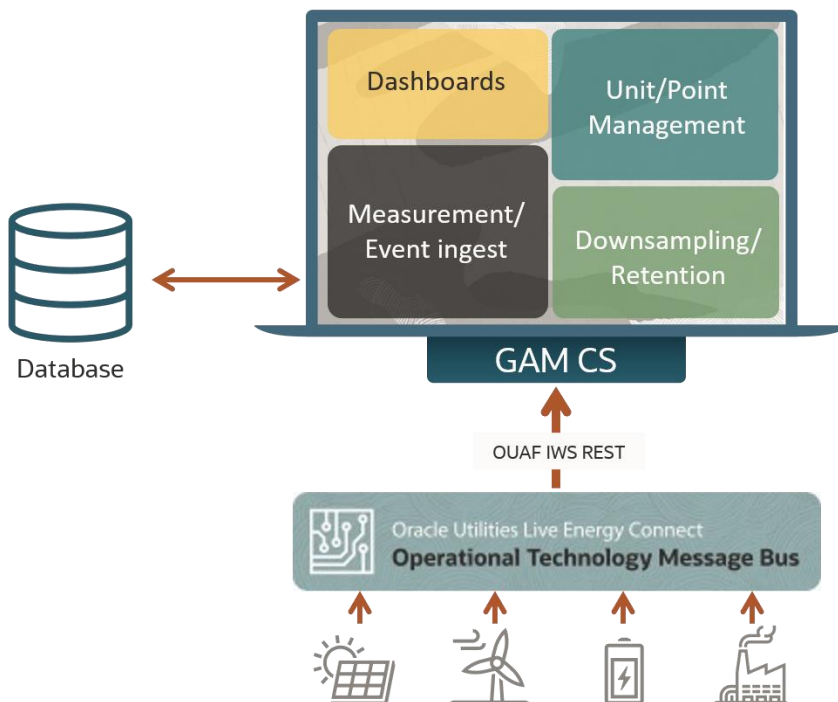
Oracle Utilities GAM CS is readily available as a cloud solution. **Oracle Utilities Live Energy Connect** (Oracle Utilities LEC), the utility industry's leading operational technology (OT) integration platform, is frequently used as a secure on-premise data hub to securely transact data with GAM CS. This flexible architecture and fully integrated solution allows operators to view, track, and archive data from legacy, current, and future generation assets in real time.

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Oracle Utilities GAM CS centralizes the data generation operators and managers need to ensure reliable power at the lowest cost to consumers.

Real-Time Generation Asset Management
- Real-time individual and net graphs of multiple generation assets and parameters such as: real and imaginary power, plant outputs, setpoints, load, spinning reserves, and control modes
- Display of weather, Locational Marginal Pricing (LMP), Natural gas prices, and other demand drivers
- Fulfill regulatory and communication requirements for ISO/RTO markets
- Full historian capabilities enables graphing of multiple stored data-points over user selected time period and resolution
- Alarm tracking and acknowledgement
- ISO 5-minute XML Start/Stop messages
- HTML 5 mobile ready
- Communication status indicators for field devices, connected OT and IT systems, active server, and other link indicators

Alarm Tracking
- GAM CS recognizes and reports alarms and tracks alarm history
- Real-time alarms and tracking

Historian Capability
- Automatic data downsampling to reduce storage requirements
- Oracle industry leading database technology optimized for time series applications
- Data retention policies eliminate the need for manual database culling and maintenance
- Single vendor, end-to-end cybersecurity is insured with Oracle Cloud Infrastructure (OCI)

Live Energy Connect integration
- Industry leading OT integration platform
- Broad protocol support, robust complex dataflow engine, simplified integration debug, and integration maintenance
- Real-time performant OT data bus to integrate all OT applications
- Embedded SCADA
- Tight integration to Oracle Utilities Analytics Visualization
- Open to support third party business intelligence and analytics tools

Cloud Native
- Implement faster
- Reduce cost
- Eliminate time spent on application, cloud, security, and database maintenance

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GAM CS Benefits include

- Increased situational awareness
- Real-time failure detection and alarming
- Flexible visualization screens
- Simplified management of input and output data
- Device-level power generation tracking

GAM CS leverages Oracle Utilities LEC to bring together and deliver real-time operational insights

Keep all your info in one centralized location. Utilities around the world have used Oracle Utilities LEC to simplify OT system and device integration. Talk with an industry expert today to learn how we can help you manage and visualize the system of systems that comprise your generation infrastructure.

Be Assured with Proven Reliability

Oracle Utilities GAM CS is backed by Oracle and supported by experienced, OT-savvy professional services engineers who provide a quick path to getting your solution online. Oracle Utilities GAM CS is part of the Oracle Utilities LEC platform, a suite of high-availability solutions and services for the utilities industry.

The Oracle Utilities LEC Platform

Oracle's smart grid data and intelligence solutions for generation operators and utility companies enable confident, real-time management of power grid assets for

- Critical infrastructure network segmentation and protection
- Independent system operator (ISO)/regional transmission organization (RTO) connectivity
- SCADA, OMS, and DMS real-time state monitoring, control, and communication
- Demand response aggregation
- Visualization
- Data analytics

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