

Oracle Utilities Live Energy Connect Asset ID Manager

Automate asset ID management, increase operational efficiency, and minimize the risk of human error. With Oracle Utilities Live Energy Connect Asset ID Manager (Oracle Utilities LEC AIM), utilities can simplify the management of configurations and namespaces across operational technology (OT) systems.

EASILY ADD NEW DEVICES TO YOUR GRID

Adding new devices to your grid involves manually registering them in your supervisory control and data acquisition (SCADA) system, geographic information system (GIS), and outage management system (OMS). With Oracle Utilities LEC AIM, grid operators can automatically keep SCADA, OMS, and GIS systems current with new devices soon after they are installed. Oracle Utilities LEC AIM eliminates the need to manually manipulate files to maintain associations between SCADA and OMS systems. It works in conjunction with Oracle Utilities Live Energy Connect (Oracle Utilities LEC) to streamline your OT environment.

Oracle Utilities LEC AIM coordinates the loading of configurations across various OT management systems and ensures that all systems remain synchronized. For example, when you use it to add a new data point to your SCADA system¹ and to your OMS, the measurement is automatically connected from the SCADA system through Oracle LEC to your OMS. Oracle Utilities LEC AIM simplifies management of your smart grid or generation portfolio by automatically generating measurement tables for your OMS, batch files for Oracle Utilities LEC, and exception reports when anomalies occur.

Oracle Utilities LEC AIM manages data point definitions between SCADA, Oracle Utilities LEC, and Oracle Utilities Network Management System or CGI PragmaLINE OMS by automating the necessary steps to generate and load OMS SQL tables and Oracle Utilities LEC batch files. It generates exception reports for definition mismatches across systems and can be run in fully automatic or human-assisted mode. Human-assisted mode allows operators to check each step of the asset ID generation process. The asset ID manager generates exception reports in either manual or automatic mode to detect system anomalies.

Key Benefits

Oracle Utilities LEC AIM helps utilities

- Automatically link devices between the OMS, SCADA system, and Oracle Utilities LEC
- Increase operational efficiency by automating relationship management between SCADA and network management system (NMS) namespaces
- Reduce work load for Oracle Utilities Network Management System and CGI PragmaLINE OMS
- Eliminate the manual reconciliation of tags and data points from SCADA systems, OMSs, and Oracle Utilities LEC
- Minimize the risk of human error

Oracle Utilities LEC supports nearly every power industry protocol.

¹ Some SCADA systems do not support this feature

Maintain Synchronization Across SCADA and OMS

When new devices are brought online, Oracle Utilities LEC AIM automatically configures Oracle Utilities LEC and your third-party network management system to incorporate new devices.

Simplify System and Application Relationships

Oracle Utilities LEC AIM automates the maintenance of relationships among SCADA, OMS, and field devices, as well as documents anomalies by automatically producing exception reports. By monitoring configurations for tag changes or new devices, Oracle Utilities LEC AIM can eliminate the need for operators to manually update files on Oracle Utilities LEC, OMS, and SCADA systems.

Automate Configuration of NMS

In instances where a rich naming scheme is employed for SCADA data points, Oracle Utilities LEC AIM can query the SCADA system via inter-control center communications protocol (ICCP) to automatically configure measurements in NMS systems without needing to push data translation files between systems.

Oracle Utilities LEC AIM enables grid operators to automatically keep SCADA, OMS, and GIS systems current with new devices soon after they are installed.

HOW IT WORKS

Oracle Utilities LEC AIM's flexible architecture accommodates a wide range of data point naming schemes and system architectures, as shown in Figure 1.

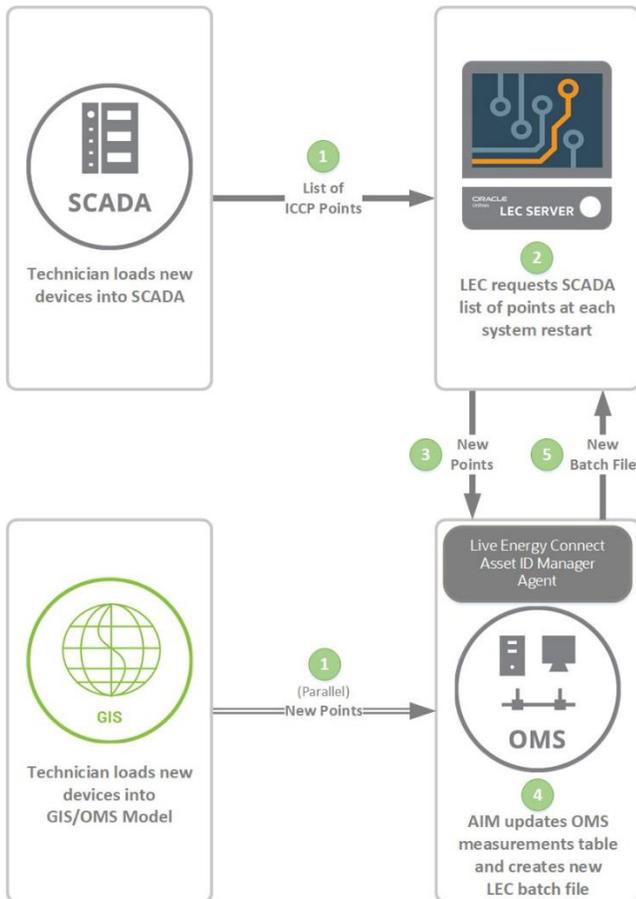


Figure 1. How Oracle Utilities LEC AIM works

Step 1

In many system architectures, new devices are modeled in the GIS and sent to the OMS; independently SCADA data point files are loaded into the SCADA system.

Steps 2 and 3

With typical SCADA systems, Oracle Utilities LEC AIM (via Oracle Utilities LEC) can read a list of all ICCP SCADA data points.

Step 4 and 5

In organizations that encode OMS measurement lookups into their SCADA data point names, Oracle Utilities LEC AIM uses the SCADA list of ICCP data points to update the OMS measurements (step 4) and creates new batch files (step 5), which it then sends to Oracle Utilities LEC.

Step 1 Parallel

Some SCADA systems do not support automatic ICCP interrogation of ICCP data points. In this case a list of SCADA data points is typically transferred from the GIS to Oracle Utilities LEC AIM using a flat file, XML, database, or similar shared filesystems or web/HTTP/SOAP. Oracle Utilities LEC AIM then uses this information to complete the automated data point and OMS measurement load process.

BE ASSURED WITH PROVEN RELIABILITY

Oracle Utilities LEC AIM 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 LEC AIM 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 utility companies enable confident, real-time management of power grid assets for

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

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