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Oracle Utilities Live Energy Connect Protocol Support

Oracle Utilities Live Energy Connect (LEC) is an operational technology message bus architecture (OTMB) that ensures efficient integrations with native protocol support, point-and-click configuration for data flows, embedded Python support for complex data manipulations, and 50+ built-in data filters. It supports a broad range of industry protocols to suit all a utility's data integration and orchestration needs.

Simplify OT and IT System Data Integration

Oracle Utilities LEC is scalable, OT-centric middleware that seamlessly integrates systems and devices speaking many utility and industry protocols. From our early days developing the original standard for TASE2/ICCP to safely control grid assets, to our development of a new category of real-time software, the operational technology message bus (OTMB), Oracle Utilities understands that integrating real-time operational technology (OT) systems and devices has a fundamentally different set of requirements than IT enterprise systems.

Leveraging OTMB into every product we deliver allows us to be sensitive to the OT imperatives of protecting life, equipment, and environment while delivering exceptionally efficient integrations of grid automation devices, OT, and IT systems securely across low quality networks, and a range of OT standards ranging from 40-year-old device protocols to state-of-the-art large-scale streaming standards.

OTMB is at work whether we're connecting a single generation asset to an ISO or helping manage a network of millions of distributed devices. LEC provides the secure, scalable communications foundation for our Flex SCADA and DERMS solutions. Oracle Utilities' experienced engineering team and OTMB architecture combine to deliver rapid, OT-hardened system integrations that enable reliable connectivity and control across individual grid assets as well as complex, highly distributed energy networks. Features include:

- Native support for major utility protocols including ICCP/TASE.2, OPC, DNP 3.0, MultiSpeak, Modbus, CIM, Web Services
- Point and Click configuration for simple and complex data flows
- Over 50 built-in data filters
- Embedded Python support for complex data manipulations

Be assured with proven reliability

100+ customers utilize Oracle Utilities LEC as an OTMB to connect their assets, systems, and devices. Oracle Utilities Live Energy Connect is backed by Oracle and supported by experienced, OT-savvy professional services engineers who provide a quick path to getting your solution online.

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Oracle Utilities Live Energy Connect supports the following protocols and transactional database languages.

Bi-Directional Protocols	Database Support	Live Interfaces to any SCADA, EMS, HMI, DCS and/or OMS System, including:
• IEC 61870-5-104*	• InfluxDB	• ABB
• IEC 61870-5-101*	• MS SQL Server	• AREVA
• ICCP Blocks (1, 2, 4, 5, 7)	• Oracle	• Advanced Control Systems
• DNP 3.0 (RS-232/485, TCP, UDP)	• Sybase	• EFACEC
• HTTPS	• DB2	• GE
• ODATA	• MySQL	• Honeywell
• OPC UA	• MySQL MaxDB	• Hitachi
• MultiSpeak	• SQLite	• iFIX
• Modbus (RS-232/485, TCP, UDP)	• ODBC	• Intellution
• SunSpec Modbus (IEEE 1547-2018)*	• Mongo	• Invensys
• MMS (TCP)	• Firebase	• M3i
• OpenADR 2.0b*	• Postgres	• Open Systems International
• PG&E (RS-232/485, TCP, UDP)		• Oracle
• REST		• OSISoft
• SMS (cellphone alerts)		• Siemens
• SOAP		• Sisco
• UCA 2.0		• Telvent
• UDDI WAP		• Triangle Microworks
• XML		• Wonderware
• IEEE 2030.5*		• Full support for CIM, DAF, ICCP, UCA, OPC/CORBA, and XML

* Available only when LEC is deployed with Oracle Network Management System (NMS)

Do you require a different protocol? Additional protocols can be added quickly through rapid protocol development.

Connect with us

Call +**1.800.ORACLE1** or visit **oracle.com**. Outside North America, find your local office at: **oracle.com/contact**.

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