OpenGrid®
Software Platform

Reliable innovation. Personal solutions.
Preface

The Ormazabal CURRENT® family OpenGrid® Software Platform redefines the way utilities gain insight into events within their power grid, helping to make the Smart Grid even smarter. Our OpenGrid® software applications assist you in managing communications infrastructure, grid devices, smart metering aggregation and capabilities needed for effective Smart Grid deployment – one that is capable of discovering, securing and managing a wide range of remote devices across the network.

Key features and benefits

Proven Scalability

The CURRENT® family Software Platform OpenGrid® maintains performance levels for the largest utility-side deployments including network management, grid management and meter data collection. Our software is field proven in large scale deployments (handling >250,000 IP devices). We use industry leading Oracle Database and Oracle Weblogic Application Servers – all proven to be highly scalable.

Automatic Device Provision

OpenGrid® is designed to eliminate or minimize human intervention for device provisions. Network Devices can be discovered and provisioned automatically.

Supports Open Standards

Our OpenGrid® software allows you to manage and collect data from multiple vendors’ equipment using a common software platform. The flexible design makes it easy to add new communication protocols and different network devices into OpenGrid®.

Automatic Software Upgrade

Our fully automated process can update all devices in bulk and reduces operational costs while increasing reliability by ensuring that all devices are running the correct firmware.

CURRENT® family

OpenGrid® Distribution

OpenGrid® Distribution enables the collection, visualization and analysis of sensor data. This enables you to:

- Identify specific actions to respond to live problems
- Improve operating efficiency, decrease energy losses, and avoid failures before they occur – such as aging equipment issues
- Identify the time, place and specific action that should occur, allowing either automated responses or the dispatch of crews directly to specific problems

Remote Configuration & Management

OpenGrid® Distribution incorporates remote configuration of our CURRENT® family Monitoring devices to set threshold detection, alarming, and data variance detection. It also integrates with other utility databases to provide normalized access to data to facilitate the development of advanced analytics. This analytics platform provides you with linkages to every other system within your utility through application programming interfaces (APIs) and with information flow that ensures that existing systems benefit from the enhanced view of the network status.

Easy to Integrate

Our OpenGrid® is a standards-based system, as well as vendor- and communications neutral. This makes it easy for you to integrate our software with already existing systems – including OMS, DMS, Asset Management, Work Management, SCADA, and Data Historians and Metering.

Field Proven MV BPL Management

The CURRENT® family OpenGrid® has been used to manage MV BPL networks for more than 10 years. Our software platform offers you unique and leading MV BPL network management features, such as High Availability, frequency Band and Power Mask Management.

Connected Intelligence™ and Big Data Analytics

Powerful Results – From general information to alerts about potential problems, our CURRENT® family OpenGrid® Software Platform simply provides the information that you need, when you need it. Our innovative software goes beyond simple device management and data collection to provide Connected Intelligence™ directly to your utility.

Flexible Enterprise Interfaces

OpenGrid® is easy to integrate with other utility systems using standard protocols. Our software has been integrated with customer MDM, CRM, and DMS systems through Enterprise Service Bus and other integration technologies.

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OpenGrid® Metering

OpenGrid® Metering offers you an exclusive cockpit to manage your devices with an easy-to-use web-based graphical interface. Better still, it is a vendor-neutral enterprise class AMI data collection, management and analysis solution. Our OpenGrid® Metering is supporting large utility-wide deployments. It collects aggregated meter data from each Station Data Concentrator and forwards the data using standard interfaces (e.g., SOAP/XML) to other utility enterprise systems, such as a Meter Data Management System (MDMS) or Customer Information System (CIS).

Centralized Management

OpenGrid® Metering offers you a centralized management solution for monitoring the AMI collection process, including at-a-glance dashboard views and reports. This gives you fast, easy access to the health of your meter collection system. Finally, OpenGrid® Metering provides you with advanced analytics capabilities based on meter data to help you detect potential issues.

Flexible, Scalable & Easy to Integrate

Our flexible and scalable meter data solution helps you manage both meters and data concentrators from small trials to full-scale rollouts with millions of end points. Better still, OpenGrid® Metering offers multi-vendor interoperability, supports multiple data-export interfaces and can manage not only meter collection, but also additional network and IT services, such as DHCP.

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OpenGrid® Networking

OpenGrid® Networking is the CURRENT® family enterprise-class network management system that provides full communications management of Smart Grid communications networks, including:

- Fault, Configuration, Accounting, Performance and Security (FCAPS) management as well as device messaging and control
- Asset management and discovery of your utility devices, such as the Station Data Concentrator, Low Voltage Analytics and Medium Voltage Broadband Power Line devices
- A priority-based communication scheme. This ensures timely delivery of both event notifications and of measurement data

Supports Multiple Communications Technologies

OpenGrid® Networking supports a wide variety of communications technologies – including fiber, 3G wireless (GSM-GPRS, HSPA and EvDO), DSL, WiMax, Ethernet, cable and MV BPL – that can be deployed to meet your individual needs and seamlessly integrated and managed via one single platform.