Titanium Smart Metering Platform

AMI rollout and operations support
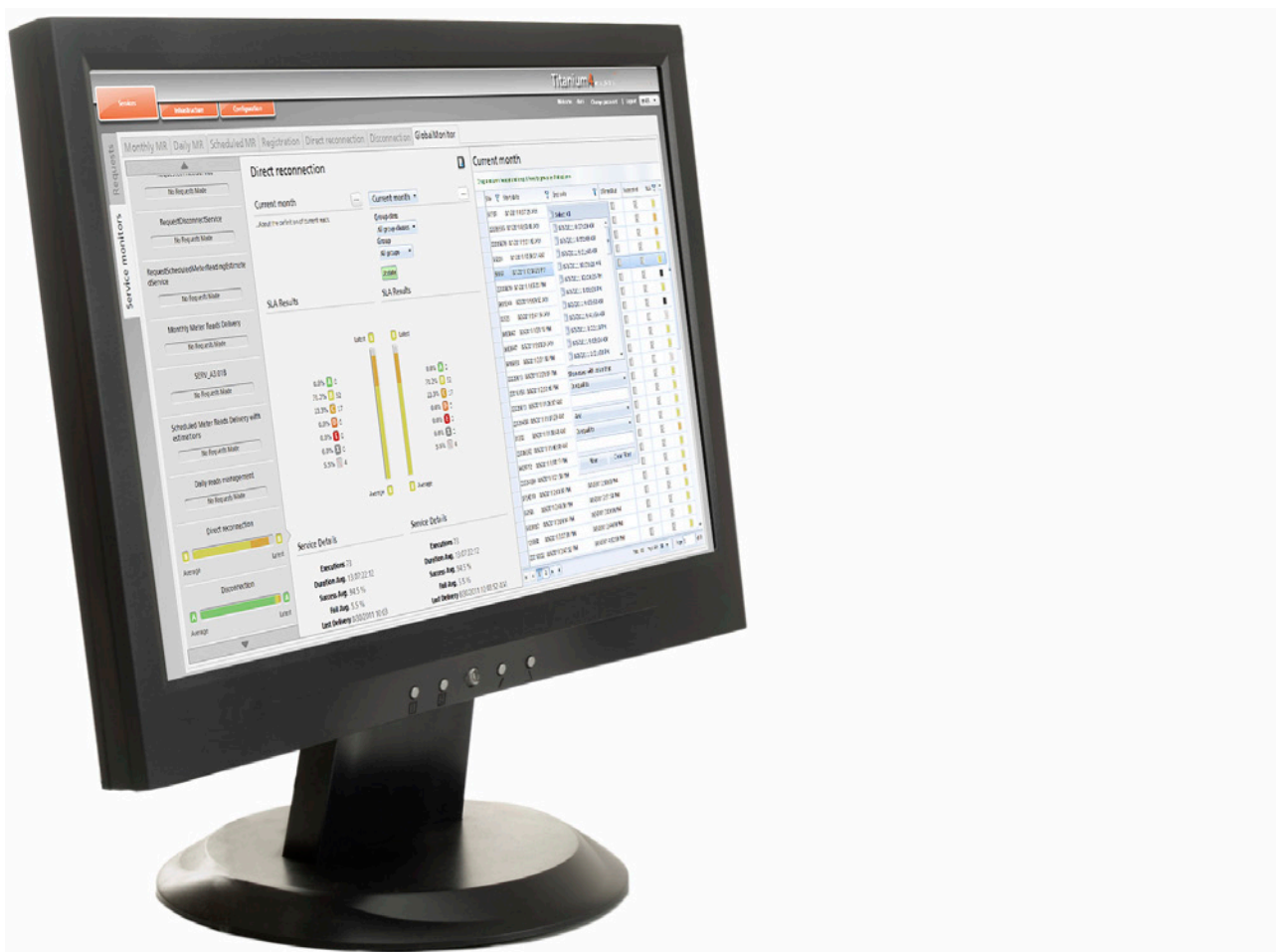
Make the most of your energy℠

Schneider Electric
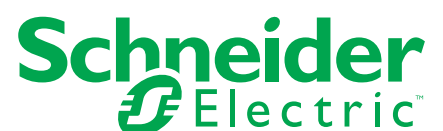
Titanium Smart Metering Platform

Automated meter management can yield invaluable information that helps the energy utility improve operations and business efficiency. Yet, the systems, resources and time needed to deploy, monitor and manage the Automated Meter Infrastructure (AMI) are complex and demanding.

Schneider Electric's Titanium smart energy services platform puts Schneider Electric's information management services expertise to work to not only achieve effective AMI deployment but also maximize subsequent smart metering returns. It's an innovative, and award winning,[1] solution that makes large-scale AMI rollout and its continuing benefits — lower operational costs, improved end-customer services and smarter, sustainable energy — a reality for any utility.

First: AMI rollout management

The Schneider Electric Titanium services solution enables comprehensive management of rollout, from planning to meter configuration to deployment of AMI devices —

• Provides a vendor-neutral platform. You can manage both new rollouts and existing infrastructures within the same system and have more flexibility and scalability as the AMI grows.

• Integrates with work order management systems. You reduce the cost of rollout field services and meter population replacement and maintenance, through streamlined implementation made possible with Schneider Electric's open-architecture technology.

### Next: smart energy information services

With the Schneider Electric Titanium solution, all meter-related data and any remote meter action are managed by Schneider Electric as a service. This approach reduces your internal process requirements and their costs, and your utility benefits from higher operational efficiency —

• Collects data such as energy consumption, hourly readings and auto-recovery of missing values. Your utility does not have to maintain an internal process for collecting billing data, because this function is delivered by Titanium as a service flow that can be directly integrated with your utility's billing system. Remote collection of meter readings reduces operational labour costs and allows utilities to meet new regulations limiting consumption estimations.

- Performs quality checks and validations on collected meter values. Your utility can improve its invoicing process by using Schneider Electric Titanium's interval values (up to 5 minutes), automatic data retrieval, and monitoring of collected data. Schneider Electric Titanium offers nearly 100 percent daily achieving performance — reducing estimation work and balance settlement efforts.
- Connects and disconnects meters remotely. Your operational labour costs are reduced, and customer service is improved. Schneider Electric Titanium can remotely connect and disconnect end-customers through an integrated SMS authorization mechanism, eliminating safety concerns related to electric reconnection.
- Detects and categorizes power outages. Outage information also can help you improve fault recoveries and customer service.
- Provides analytics using readings and events. Low voltage network status monitoring can be enhanced using power quality and power outage information services. In areas where the power grid is poor, particularly where old wires or long distances are a factor, over-voltage and low-voltage events will be generated. Your utility can be made aware of these issues so that renovations can be planned.

Beyond the meter

Schneider Electric Titanium also helps your utility improve energy efficiency and smart grid management with end-customers who 'opt-in' to a remote appliance control program. Load management of boilers, air conditioners, PHEV and thermostats inside the home allows these units to be switched off if the utility needs to reduce consumption and the cooperating end-customer to receive an associated bonus or discount.

Service request quality can be checked using the global monitor screen. It will display successful executions, as well as show failed requests, which can be analyzed.

Additionally, Titanium can deliver electric power consumption information to an in-home display, Smartphone, or tablet PC, either through a home gateway or directly from the meter. Titanium uses communication technology such as Zigbee, meeting international standards, to connect the meter and home appliances, allowing full communication with the end-customer's out-of-box devices of choice. The ability to establish reliable home area network communication yields even further value from investment in smart meters: it helps the utility to educate customers about their energy use and control their energy expenses — and develop greater customer satisfaction.

Part of a comprehensive, intelligent smart grid

Titanium is just one component of Schneider Electric's comprehensive Smart Grid Solution Suite, an integration of network management solutions including robust, enterprise-scale GIS, DMS, OMS and SCADA that all use a unified network database — "a single version of the truth" — that provides real-time operations data accurately and reliably to network control systems, grid analytics, customer service and business processes. The Schneider Electric Smart Grid Solution Suite is the world's most complete, interoperable and proven smart grid solution.

[1] Recipient of the 2010 Smart Grid Excellence Award
presented by the Technology Marketing Corporation (TMC)
and Intelligent Communications Partners (ICP) (http://smart-
grid.tmcnet.com/topics/smart-grid/articles/144702-smart-
grid-excellence-award-winners-unveiled.htm)

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