NXP and Atos Bring End-to-End Security to Smart Grid

Atos Worldline and NXP Semiconductors N.V. recently announced a unique end-to-end security and authentication solution designed to protect Smart Grid networks against energy theft, privacy breaches and grid attacks. The solution brings Atos Worldline's ESS (Energy Security Service) and Atos Worldline's SMP (Smart Meter Personalisation) together with secure last-mile devices and authentication technology from NXP, a leader in security IC solutions.

Together, Atos Worldline and NXP are able to provide end-to-end security – from the smart meter to the meter data management platform, and from the smart meter to end devices in the grid. The new security architecture was unveiled in a demonstration at the Smart Metering UK & Europe Summit 2011 today in London.

The end-to-end Smart Grid security solution is based on the concepts of "security by design" and "privacy by design," and offers:

* Atos Worldline ESS for end-to-end message encryption from the smart meter to the meter data management platform, as well as encrypted storage of data in the back office

* Atos Worldline SMP in accordance with the highest technical security requirements to protect confidential information from unauthorized and unnoticed access

* NXP au10tic™ ICs for authentication of all Smart Grid components to secure data, preserve privacy and prevent counterfeiting of last-mile devices, and prevent energy theft

* Prepayment with smart cards using NXP smart card reader ICs, contactless reader ICs, SAM (Security Access Module) ICs, MIFARE® and SmartMXTM technology and NFC controllers.

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