NES System Software

Proven to scale, manage NES's Energy Control Networking Platform and enable local intelligence to avoid data deluge

nes

Networked
Energy
Services

System Software Key Features

- Takes advantage of NES's local intelligence to reduce data deluge and WAN costs.
- Enables on-demand reads, instant diagnostics, power outage detection, verification and restoration, move-in/move-out, and secure remote disconnect/reconnect services.
- Simplified, automated management of communication schedules for collecting meter billing reads, on-demand data reads, events, alarms, power-quality data, and load profiles.
- Enhanced security features encrypt all communication. Advanced OSGP-AES-128-PSK security can be supported.

Proven and Built to Scale

Built for automating and managing millions of smart meters and grid devices, NES System Software is the proven management system that forms the foundation of a smart grid system. It supports everything a utility needs to deploy, provision, configure, audit, diagnose and retrieve data from their smart meters and Open Smart Grid Protocol (OSGP) enabled grid devices. It's fault-tolerant, tested to scale to millions of meters, and built on IT standards for faster, easier, and less error-prone integration. NES System Software provides the two-way grid intelligence utilities need for a more stable, reliable and smarter grid today.

Local Intelligence Reduces Data Deluge

System software is designed to take advantage of NES's distributed architecture to collect data in the most efficient way: reducing WAN costs, IT server bandwidth and delivering the right data, at the right time, to the right place. With local intelligence, all events do not need to be processed at the head-end to take action or process data reducing data deluge.

Instead, action can be taken in the field when necessary. Information brought back to the data center can then be distributed across multiple departments and used in many different applications to enable a proactive posture, provide troubleshooting analysis, and settle customer bills. With this ability, you can reduce mean-time-to-repair and avoid expensive emergency after-hour repairs.

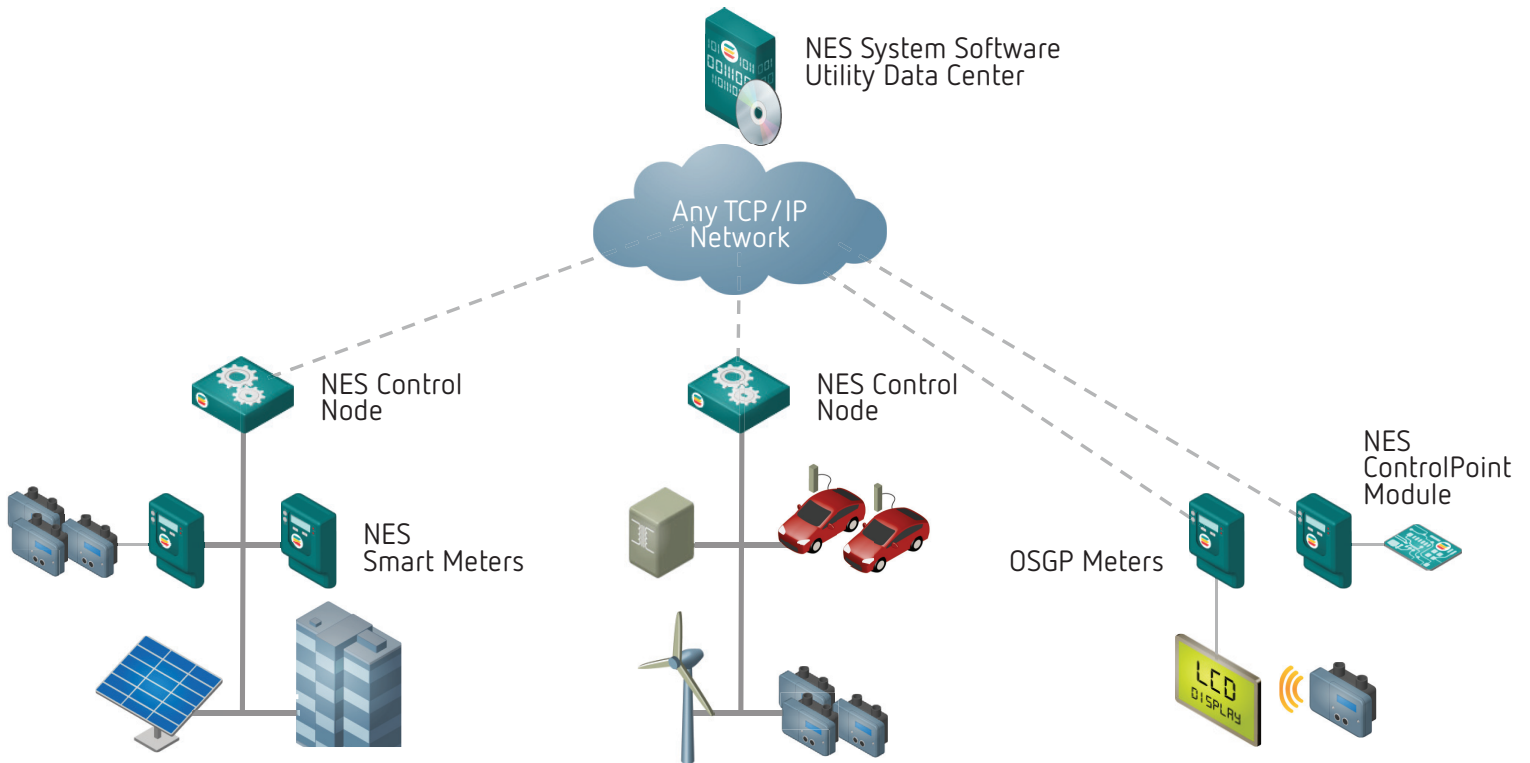## Multi-Application Platform Built to Reduce Operational Costs

NES System Software is an extensible infrastructure that enables a full range of valuable applications that can improve every aspect of a utility's operation — from metering and customer service to distribution operations and value-added business. It has been optimized for bandwidth, to efficiently pull data with minimum incremental costs and is not limited by the number of applications it can support. For additional operational costs savings, software enabled features like our remote disconnect/reconnect switch and secure remote firmware upgrades allow you to manage rate plans, add time-of-use tariffs or update meters through software, eliminating trips to the field.

Open and Built on Industry Standards to Reduce IT Costs

Through a standards-based interface, NES System Software communicates with NES or OSGP-enabled smart meters, auxiliary meters (gas, water, heat), M-bus or Multipurpose Expansion Port (MEP) devices, and OSGP-enabled grid devices in the field. It also easily integrates with leading meter data management (MDM) solutions available from solution providers like eMeter (Siemens), Görlitz, Oracle, Telvent, and many others. Designed with interoperability in mind, the software communicates using standard Web services interfaces (e.g. XML and SOAP) to the utility's applications such as billing, CRM, customer service, operations, workforce management and integrates into Enterprise authentication services such as Microsoft's® Active Directory.

NES's Three-tier Energy Control Networking Platform

NES's three-tier architecture consists of NES smart meters, control nodes and an ecosystem of third party products that collect data in the field. Utilities benefit by being able to have more choices when it comes to the devices they want to deploy on the grid.

Manufacturers and solution providers can build their own meters or grid devices that seamlessly interoperate with NES's energy control networking platform.

Documentation

- NES System Implementation Guide
- NES System Software API Reference Guide
- NES System Software Installation Guide
- NES System Software Programmer's Guide
- NES System Software Version Compatibility Guide

How to order

Product
NES System Software
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