

GETTING MORE OUT OF YOUR SMART GRID DATA: NOW AND IN THE FUTURE



Honeywell

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INTRODUCTION

Utilities need to deliver a reliable energy supply profitably. At the same time, they need software solutions that will work for the long term to improve operational and business performance.

With this in mind, Honeywell has developed a software solution that enables smarter system operation, agile evolution, and standardization of interfaces.

Honeywell's Connexo solution improves ROI, cost efficiencies, and the user experience, taking steps towards transforming the utility industry.



UTILITY INDUSTRY OUTLOOK

Utilities are seeking to harness the potential of advanced metering infrastructure (AMI) to improve their business models as well as their performance on sustainability metrics.



The drivers of decarbonization, digitalization, and decentralization in the energy world have reignited a focus on robust, flexible networks to support future-proofed energy delivery and applications.

Additionally, the combination of sensors and data analytics has made it possible to ingest exponentially more data than ever before and put it to work to improve operational efficiencies, avoid costly outages and offer new value-added services to customers.

Taking full advantage of today's technology requires a transition to the latest communications technologies to gain insights into network activity and health.

OPERATING CONCERNS

For utilities (metering companies, grid operators) and solution providers, it can be a challenge to integrate with multiple grid devices and collect, process, and leverage data using multiple communication technologies, device types, and protocols. However, the risk associated with this integration can be mitigated by using the latest proven software from Honeywell Connexo®



WHY PARTNER WITH HONEYWELL?

Leading utility operators are partnering with Honeywell to improve their operational and business performance. With support for core MDC-MDM industry standards, Honeywell's Connexo solution allows utilities to choose the integration model that best fits their needs, simplifies management of myriad device types, and ensures compatibility with multi-vendor environments and new security models.



GET MORE OUT OF YOUR SMART GRID DATA

With Honeywell Connexo®, utilities are able to integrate with multiple grid devices and head-end systems. By providing data collection flexibility, utilities gain insights into network activity and health. Connexo brings utility intelligence together in one future-proof application, providing a more complete view so you can get maximum value from your advanced metering infrastructure (AMI) investment.

Honeywell also has user cases from major utility customers around the world of their successful implementation of Connexo®, delivering improved operational and business performance. Currently 65+ utilities worldwide are using Honeywell's MDC/MDM solutions.



THE CONNEXO PORTFOLIO: A UNIFIED UTILITY INTELLIGENCE SOLUTION

Connexo helps manage the core of a utility's business with a flexible, scalable, open-architecture framework based on industry standards and protocols. This allows for unification of intelligence from edge to cloud, across multiple systems and millions of devices, encouraging rich communication.

The 360° view supports utilities in analyzing issues and making decisions across the ecosystem. Our approach improves ROI, cost efficiencies, and the user experience, taking steps towards transforming the utility industry.

Connexo offerings can be used separately or together to fit specific needs.



HOW OUR SOLUTIONS HELP

Honeywell Connexo can help utilities to securely collect, process, store, and leverage data to turn insights into action.



ADAPTIVE

Our open, standards-based platform works with other third-party systems, enabling utilities to easily integrate applications such as prepayment, cyber-security management, customer engagement, and more. Our platform accommodates evolving standards while supporting legacy systems.



COST EFFECTIVE

Manage data from multiple vendors in one unified, technology-agnostic solution, reducing operational costs. New features and functionality are also designed for cost effectiveness.



PERFORMANCE DRIVEN

Connexo is built on a “management by exception” design that alerts utilities to critical issues and “self heals” minor issues while keeping data secure across all device types. Utilities are able to gain insights into the health of the ecosystem with a single dashboard.



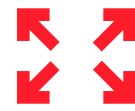
SECURE

Connexo provides protection at all phases of the process, from access, authentication, and encryption to monitoring and reporting. With more and more endpoints being added, points of vulnerability increase, but Connexo is able to protect your ecosystem.

MULTI-NETWORK MONITORING AND CONTROL

No matter how densely or sparsely populated or how diverse the terrain in the service territory, Connexo NetSense is the right solution. This web-based head-end system allows for data collection flexibility from both SynergyNet RF mesh and cellular networks, giving utilities the greatest possible coverage. Connexo NetSense integrates data, workflows and business processes, making integration more cost effective.

In short, Connexo NetSense delivers what utilities look for in a head-end system: simple deployment and operation with visibility into network activity and health to protect against outages.



VERSATILE IMPLEMENTATION

Designed to support all leading AMI communication technologies including mesh and direct connect, NetSense can accommodate data from gas, water and electric meters, as well as a variety of grid devices. Choose the out-of-the-box functionality to leverage built-in best practices, or you can adapt the software to match your own processes.



FLEXIBILITY TO SCALE

NetSense comes with embedded database technology that can easily manage the storage needs of a smaller utility or the deployment needs of a larger organization, whether you have hundreds of endpoints or millions. In addition, a data extract from NetSense enables users to easily discover trends and patterns, analyze AMI alarms and events and correlate data to analyze specific use cases using commercial reporting tools.



EASY ACCESS AND ISSUE MANAGEMENT

Get easy access to multiple types of data: load profiles, register reads, events and communication logs. The system supports network topology insights, and the unified dashboard provides visibility into your network activity and health. NetSense also features built-in exception-based event processing and best practice workflows for issue management.



COMPLIANCE AND SECURITY

NetSense is compliant with all the standards you'll need: CMEP, CIM, MultiSpeak, HTML5 and APIs, enabling trouble-free integration with other enterprise systems. It's also engineered to the highest security standards, supporting utility integrity with user-defined roles and standards-based LDAP integration.

SCALABLE DATA MANAGEMENT

Connexo Insight handles large amounts of meter data and auditing for traceability of data elements. The solution seamlessly integrates with Connexo MultiSense, Connexo NetSense, and other enterprise systems for the timely exchange of data, reducing ongoing operating costs.

Connexo Insight is very flexible and changes with the utility's requirements. Leveraging Honeywell's proven reporting experience and intelligent analytics across multiple businesses, Connexo Insight reduces operating costs while upholding the integrity and reporting of data and long-term storage.



VALIDATION, ESTIMATION AND EDITING

Connexo Insight's powerful validation, estimation, and meter data editing capabilities allow utilities to correct and prepare data before it reaches other business-critical systems. Predetermined algorithms search data for erroneous values, providing a real-time view of possible data quality and retrieval problems, so utilities can swiftly analyze, resolve and collaborate on issues.



PERFORMANCE AND RELIABILITY

Efficiently and securely store vast amounts of data with this role-based system that allows for data versioning with user identification tracking. Utilities can scale from a few meters to millions, while maintaining excellent storage, processing, and analytics performance.



STREAMLINED DATA EXCHANGE

Connexo Insight comes with a robust web services framework and several out-of-the-box adapters to support industry-standard interfaces. This allows for streamlined data exchange with the utility's enterprise software.



ADAPTABILITY

Connexo Insight is very flexible and changes with the utility's requirements. This framework works with system integrators and service providers, reducing ongoing operating costs and training.

**THE
FUTURE
IS
WHAT
WE
MAKE
IT.**

Contact us to learn more about Connexo utility intelligence
solutions or request a demo at
www.smartenergy.honeywell.com/honeywell-connexo/

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