



HxGN NetWorks Framework | Foundation

Utilities and communications companies face many challenges – from evolving sustainability standards to heightened customer expectations, to demands for safe, reliable services at the lowest possible rates. Flexible solutions built to adapt rapidly to change are a critical key requirement for successfully meeting these challenges.

HxGN NetWorks is a fully digital GIS-based asset management solution specifically built for utilities and telecommunications. It allows companies to design, build, manage and get the most value from their physical networks while they modernize and adapt to the new engineering and operations reality driven by distributed energy resources (DERs) and demand for fiber.

Part of the HxGN NetWorks portfolio, **HxGN NetWorks Framework | Foundation** is a fully customizable web portal that unlocks engineering and operations data and allows internal and external users to consume and act on it via a browser.

Benefits

• Increased data availability for cost and time savings: Make data consistent and available across the enterprise and beyond – without the need to replicate it in warehouses or data lakes – eliminating multiple copies and differing versions

- Streamlined workflows for increased efficiency: Use built-in workflow engine in HxGN NetWorks to create discrete applications that are built-for-purpose to address specific requirements
- Assured data quality for better decision-making: Capture data and rely on the underlying data validation, rules and logic in the HxGN NetWorks model to ensure it is high quality
- Enhanced data security for quality assurance: Control access to data by assigning roles and manage security down to the attribute or function level
- Quick display of multiple data types for a more realistic view: Easily integrate and mash up HxGN NetWorks data with other enterprise data (e.g., load data from AMI, third-party data sources like Google Street View or lighting strike data) and display it quickly thanks to low-code configurations

Configurable applications

With a low-code framework used to configure discrete advanced applications for a variety of users, Foundation can leverage multiple digital datasets to create secure, high-quality applications that can be shared across an organization.

Foundation's default, out-of-the-box portal configuration – NetWorks Explorer portal configuration – provides fully

functional visualization, editing and network analytics capabilities. However, the strength of Foundation is that it is designed to enable the rapid creation of workflow-based discrete applications by adding additional configurations.

Examples of workflow-specific applications could include:

- Public-facing streetlight outage reporting and related internal apps to dispatch and remediate streetlight anomalies
- Third-party joint use requests and associated permit review and approval processes
- Job tracking
- As-built updates
- Field-staking design
- Inspections with follow-ups

All applications are secure, so datasets and functionalities can be displayed, or not, depending on a user's role.

Single interface for desktop, field and mobile

Foundation-based applications share a similar look and feel and the same interface across all deployments – desktop, field and mobile. It has a single clean intuitive user inface that allows users to quickly transition a connected desktop to a connected or disconnected field device such as a phone or tablet.

Two-way integration

Foundation supports two-way integration, meaning it can consume data as well as update data. And while it was primarily designed to work with HxGN NetWorks data, other enterprise applications and commercial data can also be incorporated seamlessly into configured applications, without the need for data replication.



HxGN NetWorks Framework | Foundation enables a consolidated, actionable view of a utility's networked assets in a single, simple, easy-to-use application.

Features

- Low-code configuration capabilities: Rapidly create and deploy purpose-built discrete applications
- **Built-in workflow engine:** Automate applications that guide users and allow them to track progress
- Out-of-the-box NetWorks Explorer portal configuration: Access fully functional visualization, editing and network analytics capabilities
- Enterprise integration: Easily consume or generate web services
- **Data fusion:** Mash up corporate data with third-party or public web services
- **Redlining capabilities:** Make simple markups
- **Direct asset editing in job context:** Eliminate reworking and need to manually sync data while maintaining data integrity and security
- **GPS integration:** Capture accurate location data in the field
- **Device and OS agnostic:** Run in any modern browser, on any device

Explore the HxGN NetWorks portfolio

Hexagon is the global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications. Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Safety, Infrastructure & Geospatial division improves the resilience and sustainability of the world's critical services and infrastructure. Our solutions turn complex data about people, places and assets into meaningful information and capabilities for better, faster decision-making in public safety, utilities, defense, transportation and government. Learn more at hexagon.com and follow us @HexagonAB.

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