As utilities deploy smart grid technologies to modernize the grid, Intergraph® provides a complete command-and-control environment for electric distribution grid operators. Our Smart Grid Operations Command-and-Control Center transcends traditional outage management systems by delivering outage analysis, integrated workforce management, advanced visualization, and real-time monitoring, control, and analysis to put you in command of your smart grid operations center. Smart grid is imperative for energy efficiency, and our solution focuses on the often neglected aspects of the new technology—the operator and the operations control center. Intergraph’s solution integrates real-time input from smart devices and other technologies on a smart grid with outage and workforce management. With these tools, you can monitor automatic network adjustments, manual switches, outage restoration, and dispatch calls. An enhanced operations center increases your ability to quickly detect and respond to potential problems.

COMMON OPERATING PICTURE

Smart grid adds automation, as well as sophistication and complexity, to grid operations. The fundamental benefit of our Smart Grid Operations Command-and-Control Center is the integration of several operational tools into one common operating picture. An integrated single user interface displays real-time network data geographically and schematically. The interface is combined with powerful analytical tools to improve system operations and control from the command center.

Intergraph’s solution translates and displays input from network devices, smart meters, and other sensors. You can control and operate these network devices through our command-and-control center to switch, re-route power, manage voltage levels, and reconfigure the network to support restoration activities. Additionally, the center displays alarms on the system monitor to show overloads and other network problems. The solution is based on Intergraph’s latest technology and integrates outage and workforce management into one environment. The access to outage and crew management, in addition to the smart grid sensor information, plays an invaluable role in your fundamental mission—to provide reliable service.

COMPLETE COMMAND-AND-CONTROL ENVIRONMENT

Intergraph’s Smart Grid Operations Command-and-Control Center is the single operations console that can manage your entire distribution network. You are no longer required to monitor the network in a supervisory and data acquisition (SCADA) system, make changes in an outage management system (OMS), use automated vehicle location (AVL) to find
a field resource, and call the resource to assign a work order. Our solution allows you to access all of this information through a single interface. Intergraph's ability to integrate multiple smart grid technologies helps you operate more efficiently, and offer reliable energy to your customers.

Intergraph is the leader in the new utility smart grid operations center with the integration of OMS and distribution management systems (DMS) within a single graphical user interface. The integration of OMS and mobile workforce management (MWFM) enables the operations center to share a common map with field personnel to improve coordination, safety, efficiency, and responsiveness.

Our Smart Grid Operations Command-and-Control Center helps you improve situational awareness in the control room, which reduces the potential for human error. Intergraph also gives you the tools you need to more closely monitor physical security and protect your critical infrastructure, all in one system. With this comprehensive solution from Intergraph, you can improve system reliability and customer responsiveness, as well as your bottom line.

**KEY FEATURES**

- Quickly detects and addresses outages and potential problems with electric networks
- Gives operations personnel immediate access to full trouble reporting and mobile workforce management to efficiently address restoration efforts
- Automates many processes typically handled manually, such as automatic generation of switching steps for load transfers, disabling of automated devices for manual switching, fault isolation, and field order generation
- Enables real-time input from network devices, smart meters, and other sensors

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Intergraph's Smart Grid Operations Command-and-Control Center gives you access to data from multiple integrated systems through a common operating picture.

### ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph’s industry-specific software to organize vast amounts of data into understandable visual representations and actionable intelligence. Intergraph’s software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, and operation of plants, ships, and offshore facilities. Intergraph SG&I provides geospatially powered solutions to the defense and intelligence, public safety and security, government, transportation, photogrammetry, utilities, and communications industries.

For more information, visit www.intergraph.com.