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# Intergraph's Utilities & Communications Sub-track

Get a look at the exciting topics to be covered in the Intergraph Utilities & Communications sub-track at [Hexagon 2012](#)! Below is just a sampling of the wide-ranging topics important to utilities and communications companies around the world. Let us help you think forward in 2012, and gain a new perspective on the trends occurring globally in the utilities and communications market.

## ➤ **Intergraph InService Customer Organization (I2CO)**

**Monday, June 4<sup>th</sup> 8am to 5pm – Grand Garden Studio 6**

The mission of I2CO is to provide a communications vehicle between Intergraph and its InService customers, and improve our InService product line. The I2CO is a mechanism for you to make recommendations and facilitate product improvements for Intergraph products related to the utility business, and is a great opportunity for you to work together and share experiences.

I2CO membership is free and open to any Intergraph utility customer who has implemented Intergraph's InService product or placed an order. If you would like to become a member, please e-mail Danielle Bliss at [danielle.bliss@peco-energy.com](mailto:danielle.bliss@peco-energy.com) for the membership bylaws and registration information.

## ➤ **G/Technology User Group Meeting (GSIG)**

**Monday, June 4<sup>th</sup> 1pm to 5pm – Grand Garden Studio 8**

The G/Technology Special Interest Group (GSIG) was formed to provide communication and collaboration with G/Technology users and Intergraph. This meeting is the annual face-to-face, user-driven session that connects Intergraph G/Technology and FRAMME customers with similar business objectives; facilitates the sharing of current practices and future ideas for the use of G/Technology to accomplish common business goals while optimizing users' current software investment; provides access to a qualified peer network to collaboratively solve common business problems; and provides direction to the Intergraph Product Development Team on the GSIG's highest-priority hardware, software, and technical issues with G/Technology. GSIG membership is free and is required to attend this meeting.

If you would like to become a member, please e-mail Jacob Parakadan at [jjparakadan@spectraenergy.com](mailto:jjparakadan@spectraenergy.com) for the membership bylaws and registration information.

## **7000: A 21st Century Smart Grid: The Changing Role of Operations**

**Joe Moran, Senior Vice President, Power System Operations, DNV KEMA Energy and Sustainability**

System Operations 3.0 is a future view of the system operations needs as the utility industry evolves from the existing power grid to a 21st century smart grid. New influences – such as variable energy resources, electric vehicles, storage, distributed generation, microgrids, cybersecurity, a new techno-savvy generation entering the workforce, and the interaction of the prosumer – will change the way the power grid will operate. These influences will result in new demands on system operators, the tools and applications they use, how they perform their job activities, and how they interact with the field personnel. In this session, the presenter will discuss these issues and their impact on system operations and what may be required to support the evolution to the 21st century smart grid.



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### **7101: Taking Advantage of Smart Meters with InService OMS**

Smart grid and smart meters have become synonymous terminology. Deploying the next generation of smart meters can provide many benefits for utilities by lowering the cost of meter operations, including turn on and turn offs. The use of smart meters to improve operating performance is still a new and largely untapped area of potential benefit. Attend this session to gain more of an understanding of this technology at work at Oncor, where it has fully deployed smart meters and uses the AMI integration featured in InService 8.3.1 in production.

### **7202: G/Technology Product Update**

Learn more about the recent additions to Intergraph's G/Technology family of software, discuss planned enhancements, and preview the vision for the product's future. Discover G/Technology's new functionalities and updates, which include productivity improvements for common user workflows, editable schematics, and product add-ons for fiber infrastructure management.

### **7104: Network Facility Management**

Smart grid distribution management system (DMS) analytical applications have demands on the network model far beyond what is traditionally contained in the GIS version. No one anticipated the magnitude of data needed to support the DMS applications. The required data from the various data sources (i.e., Microsoft Excel and Access, Oracle, etc.) must be aggregated into staging tables, and then formatted so it can be loaded into the DMS. Key to the process is the relationship of the aggregated data to the GIS connectivity model.

In this session, the speaker will highlight two customer projects where Intergraph loaded the aggregated data model into a DMS – Snohomish County Public Utility District (PUD) and Oncor.

### **7201: Geospatial Asset Management in a Telecom Environment: KPN, The Netherlands, Case Study**

During this session, KPN will explain the importance of using geospatial information systems for managing assets within a telecommunications company. The presenter will cover the history of KPN and Intergraph, a relationship which began in 1989 and was re-confirmed in 2006. Hear how the KPN's initial solution has gradually developed to adjust to its changing needs, including solutions for its mobile/cellular network, call-before-you-dig applications, and more recently, support of fiber optic networks. KPN will also take a future look at how it envisions its network and geospatial requirements. Currently, KPN has deployed G/Technology, GeoMedia Professional, and GeoMedia Smart Client, and planning on the deployment of Fiber Optic Works and G!NIUS.

### **7102: InService Product Update**

In this session, the speaker will highlight recent additions to Intergraph's InService family of software, discuss planned enhancements, and preview the vision for the product's future. See a demonstration of InService's new functionalities and updates from the 8.3.1 release, which include AMI, DNA integration, call-taking, and other enhancements.

### **7301: Production Add-on Modules for G/Technology Projects**

Intergraph has built a number of G!NIUS modules to augment and extend the G/Technology solution. In this session, the presenter will describe the functionality of the add-on modules and highlight how they could be incorporated into existing



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G/Technology systems. These modules provide the following functionality – plotting, attribute editing, database tuning, GPS and photo capture, and reporting.

### **7203: Fiber Optic Works (FOW): A Functional Overview**

In this session, the speaker will provide a complete overview of the latest Intergraph Fiber Optic Works (FOW) application functionality. You'll receive a demonstration of the fiber functionality, as well as the complementary functions necessary to create a fiber network. If you require the capability to design and administer a fiber network, the new FOW application includes additional features and functionality to place support infrastructure (poles, manholes, conduit, etc.). It also offers basic copper capabilities to handle copper networks beyond the fiber, such as copper building distribution for LAN networks or copper cable links between buildings. Intergraph designed FOW to support fiber customers who still need to accommodate incidental copper distribution and support infrastructure.

### **7108: Integration Made Easy: Connecting InService with External Systems**

Utility companies often need to integrate monitoring devices, databases, and other systems to turn data into knowledge. Intergraph's EdgeFrontier is an intelligent data integration tool with a configurable policy engine used to create interfaces and correlate data from disparate systems, devices, and applications. In this presentation, the speaker will educate you on the features and benefits of this remotely configurable middleware. You'll hear Intergraph's plans to integrate EdgeFrontier into our InService solution to help eliminate the "custom-coded" approach to interface development. Our solution reduces maintenance costs, simplifies the upgrade process, speeds up interface development time, and provides multiple deployment options for a variety of application architectures (distributed, hierarchical, etc.).

### **7110: A Practical Guide to Intergraph's G/Technology Fiber Solution**

The New Zealand Ultra-Fast Broadband Initiative is a government-led program to expand and develop New Zealand's broadband services. Intergraph is at the forefront of this initiative, having won more than three of the four infrastructure suppliers selected by the government. In this session, learn about the business requirements of this initiative, and discover how Intergraph's Fiber Optic Works (FOW) solution is addressing them. The presenter will explore the fiber architecture adopted by the majority of the New Zealand providers, and cover many capabilities of the solution, such as reporting on bill of materials, tracing in ducts, managing complex nested relationships and fiber circuits, customer provisioning, fiber network design methodologies, and much more. The session will conclude with some working examples to help explain the principles covered during the presentation.

### **7105: InService Mobile Workforce Management Solution**

The integration of computer-aided dispatch, mobile workforce management (MWFM), and outage management into a single solution is a long-standing strength of Intergraph's InService. Recently, Intergraph has recognized the need for an enhanced offering to our MWFM solution and worked diligently on gathering requirements from customer input, industry trends, and functionality required from proposals. In this session, the speaker will highlight these enhancements, which include real-time scheduling optimization, drip feed, slip scheduling, crew management, and appointment booking. You'll also get a peek into the timeline of this solution and see firsthand features developed to date.

### **7205: Upgrading to G/Technology 10**

Is your agency ready to upgrade to G/Technology version 10? Attend this session to gain a thorough understanding of the steps needed to prepare your Version 9 database, and learn more about Intergraph's tools to help you upgrade your database.



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The speaker will provide an in-depth look at the Spatial Data Upgrade Tool, and demonstrate how you can use this tool for upgrades.

### **7106: Upgrading InService 8.3.1: Tips and Tricks**

Don't miss this hands-on session, where you'll get a head start on what to expect in the upgrade process to the most recent release of Intergraph's InService software. You'll have the opportunity to interact with members of the InService product development team, who can answer your questions and address any challenges you may have.

### **7206: Lessons Learned from G/Technology v10 Upgrades**

Gain valuable information on upgrading to G/Technology version 10 in this session, where the presenters will examine lessons learned from numerous upgrades. Topics will include how to prepare the database, migrate custom code, and utilize Oracle Locator's useful tips and tricks.

### **7107: OMS Web Portal Version 2**

Don't miss this session, where you'll receive a complete overview of Intergraph's latest Outage Management Solution (OMS) Web Portal functionality. The speaker will review and demonstrate the portal functionality, discuss upgrading from Version 1, and highlight future enhancements.

### **7208: Roundtable: Moving from As-built to Design**

More than 80 percent of all the utilities today still operate with an as-built focused workflow, while world-class utilities, such as many of the recipients of JB Powers Awards of Excellence, have streamlined the work process and capture design information early in the cycle. In this roundtable session, a panel of experts will share the benefits of moving from as-built workflows to design, discuss ROI, and provide solid alternatives.

### **7109: InService Roundtable Discussion**

Recent advancements in technology have helped utilities begin the move toward investment in smarter electrical infrastructure. At the heart of this is Intergraph's InService Command-and-Control Center from which utilities can make better operational decisions to control the grid. This roundtable session will be an opportunity for InService customers to focus on the issues they face daily and share experiences with fellow users. Intergraph industry consultants will facilitate this session and discuss any topics not addressed during the Intergraph InService Customer Organization (I2CO) meeting or that need further discussion.

### **7302: Integrated Security for Utilities & Communications: Protecting Critical Infrastructure**

Natural disasters, terrorist attacks, and other catastrophes pose a great risk to utilities and communications companies. Safeguarding infrastructure against all hazards is critical to ensuring ongoing service and safer communities. Intergraph provides unprecedented technology to design and implement comprehensive security solutions, including sensor and video integration, to improve situational awareness and enable quick response. An integrated security network can monitor substation internal and external areas using intelligent video cameras, and monitor intruders in critical areas, such as transmission towers and easements. With our software, you can direct physical security monitoring data to a central command center, where alarms feed into a single operations control center display. This allows operators to easily monitor and control energy transmission, distribution, communications, and other systems. In this session, learn how our solution can prevent catastrophic loss of service, restore service during outages, and reduce related public hazards.



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## **7207: Fiber Optic Works (FOW) Integration with Intergraph Utilities & Communications**

### **Applications**

In this session, you'll gain an understanding of how Intergraph's Fiber Optic Works (FOW) integrates with other G/Technology applications. This will be of specific interest to those of you who already utilize a G/Technology application and wish to integrate the new FOW application to manage your fiber networks in a seamless or separate network implementation. The speaker will discuss the different approaches based on business requirements/issues, as well as any implementation issues. Discover how you can achieve maximum functionality, learn about options for making the most of your existing infrastructure, and understand implications related to internal operational boundaries or government regulations.

## **7303: Update your network information from smartphones and tablets**

Within the last five years, smartphones and later also tablet computers have experienced an all-encompassing success, and today they provide millions of citizens and employees with the possibility to be online and keep contact everywhere - anytime. New technologies like Intergraph Mobile Maps and G/Technology WebServices enable the field engineers at utility and communication companies to easily update the network database with new asset information and operation/maintenance incidents from tablets such as iPads. Furthermore, thanks to the use of apps, these devices offer their users an infinity of possibilities as employees as well as citizens. In 2012, Intergraph expanded an app for smartphones which made it possible for citizens to report incidents to their municipality, with a new version targeted at utility and communication companies including new incident categories such as sewage flooding, broken cabinets and street light outages. Don't miss this session to understand the power of mobile, web services and apps!

### **See a few of the exciting topics in the Intergraph Geospatial sub-track below:**

- **Dynamic Geospatial Exploitation for a Changing World**

In this session, the presenter will highlight the vitality of geospatial image processing and analysis, GIS, remote sensing, and photogrammetry – and how you can access these tools from a single powerful and convenient package. A web processing service (WPS) provides a centralized production environment to manage and optimize access, processes, and output. Learn how you can work from one collective data pool to create value-added data products from custom front-ends. The system automatically catalogs resulting derivatives and immediately makes them available to other users. Discover how to use the new spatial modeler, and then deliver vector and raster models to other users over the Internet via interoperable geoprocessing services. The presenter will also introduce a suite of point cloud tools and provide an overview of the LPS user interface integration into the ERDAS IMAGINE ribbon.

- **Powerful GIS Data Production and Analysis**

Earlier this year, Intergraph announced Live Link, which combines GeoMedia® and ERDAS IMAGINE to deliver a comprehensive suite of GIS analysis and data management capabilities, coupled with image processing. The combination delivers what geospatial professionals have wanted for a long time – seamless integration of vector and raster data and processing. During this session, the presenter will explore the next phase of this integration that will be available in the 2012 product release, as well as present other enhancements across the desktop portfolio. In GeoMedia, you will have the opportunity to preview the new look and improved user experience, enhanced performance and scalability for enterprise databases, and the time savings in dynamic and static text placement and automated labeling. Explore how visualizing, navigating, analyzing, and interacting with geospatial data in 3D can greatly enhance an organization's ability to make decisions. See how GeoMedia 3D extends the functionality of GeoMedia, enabling you to exploit the precision and power of



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your geospatial data, which leads to quicker, more confident decision-making and visual communication in support of location-centric tasks.

- **Rapid Data Management and Delivery to the World**

Intergraph makes it easy for geospatial enterprises to manage and use large volumes of data. Find out how our solution helps you successfully manage, distribute, exploit, and visualize your organization's unstructured data (including point clouds). Learn how ERDAS APOLLO can automatically catalog, and how you can then discover, view, analyze, and download the data. You will also learn how Intergraph's GeoMedia Grid uses LiDAR data originating in ERDAS APOLLO to perform water flow retention estimation/delineation analysis. You can then combine the analytical results from this process with your GIS data sources, all within a single 3D environment using GeoMedia 3D.

- **The Smart GIS for a Smarter World**

Working in multi-disciplinary environments introduces complex requirements and challenges that many conventional GIS solutions cannot support. While all users in an organization may require access to common data, access to specific records may vary depending on department, role, or geographic jurisdiction. User access may also vary as responsibilities change over the course of a project life cycle. GeoMedia Smart Client meets the needs of multidisciplinary organizations, such as Departments of Transportation or municipal governments. At its core is a highly configurable rules and workflow engine that enables organizations to implement dynamic life-cycle workflows, feature-level access control, data validation and behavior, and integration to other systems. Learn how Intergraph's software provides a powerful, web-based "smart client" that supports high-end functionality, including vector data capture and editing. Discover the breadth of

organizations that have deployed this solution – from municipalities and transportation and utility infrastructure operators to government emergency management agencies.

- **Portray Your Geography to the World**

Geospatial organizations need to use and distribute volumes of geospatial data, but disparate legacy information systems may hinder data-sharing. When departments use different geospatial software and data formats, data silos result, forming obstacles to effective collaboration within the enterprise. Additional problems arise when trying to share data with outside organizations. Intergraph's Spatial Data Infrastructure (SDI) solution removes the obstacles associated with distributing and using copied data. Adherence to industry standards, including INSPIRE, Open Geospatial Consortium (OGC®), and International Organization for Standardization (ISO), not only breaks down barriers, but also allows organizations to comply with government mandates. With GeoMedia SDI Portal and its powerful browser application, you can easily visualize and share accurate geospatial data to collaborate internally, and with government agencies, commercial businesses, and the public. Attend this session to learn how this solution can benefit your organization.

**Registration Now OPEN**

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