Real-Time “Spatio-Temporal" Visual Analytics

*Space-Time Insight launches significant breakthrough for the Smart Grid*

Fremont, CA (Vocus) November 6, 2010 -- Space Time Insight™, the leader in visual, geospatial analytics software, today announced a break-through technology that helps visualize, analyze and detect smart grid data at performance levels never thought possible with commodity hardware. Using a unique patent-pending "spatio-temporal" processing technique, the space time server splits data from millions of meters and indexes it based upon spatial and nodal attributes.

"This unique approach will help us achieve a leadership position in the smart grid analytics market," explains Quentin Grady, Senior Vice President. Smart meters depend upon a strong communication back-haul system for reliable messaging of energy consumption data. A break-down in the communication framework will cause loss of information that will render the smart meter data unusable. This technology will optimize demand response dynamic pricing and the overall smart meter deployment challenges.

The Space-TimeAwareness Server smart grid integration capability produces composite real-time geospatial and temporal analytic visualizations based upon layered data feeds from multiple sources, including:

- External real-time databases
- Grid sensor data
- Nodally connected digital meter information
- Meter data storage applications
- Classical data bases
- Head end systems
- ERP, CRM, Asset and Billing systems
- Business intelligence applications

This data collection and aggregation happens extraordinarily fast. If you are an energy company confronting transmission and grid stability around-the-clock or facing the distribution challenges of demand response in a smart grid environment, these geo-spatial views, fortified by images, symbols with drill-down capabilities, will capture the specifics of a query, or drive custom configured dashboards. The operational benefits include:

- End-user Ad hoc analytics
- Situational awareness
- Correlations of events for root-cause analysis
- Real-Time alerts for outage analyses and fault analysis
- Preventive & remedial action scripts
- Forensic analysis of meter failures

"Our solution uses a spatio-temporal CEP framework that correlates communication and electrical events on a common platform. This unique capability separates problems in the message from the messenger," explains Chinni Ranganath, VP Utility Strategy at Space-Time Insight. The spatio-temporal solution is already in test markets with several utility companies across the United States.

About Space-Time Insight:
Space-Time Insight offers industry’s leading visual, geospatial analytics software platform and composite applications. Space-Time Insight’s Space-Time Awareness Suite, including the Space-Time Awareness Server and Space-Time Composite Applications, correlates, analyzes, and geospatially visualizes multi-source streaming sensor and device data with other enterprise data and web feeds (weather, events) on-the-fly, delivering real-time, visual, spatio-temporal analytics intuitively displayed on satellite images or maps.

Space-Time Insight was selected as a finalist for the Platts Global Energy Commercial Technology in 2009 and was recently included as a "Cool Vendor" in Gartner’s “Cool Vendors in Energy & Utilities, 2010 report”.

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