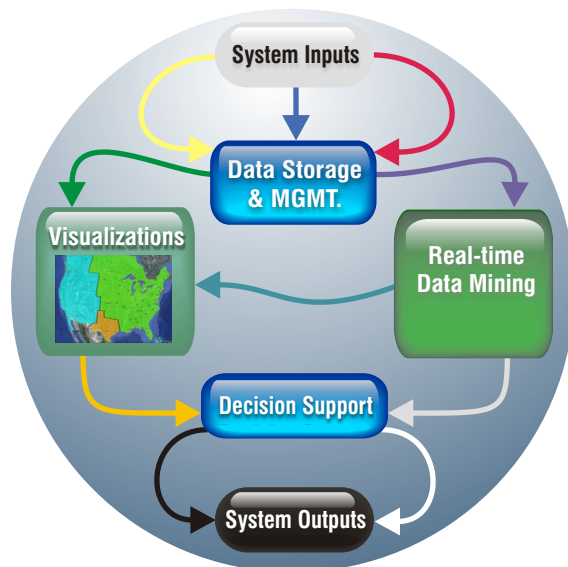


# OSI Landscape

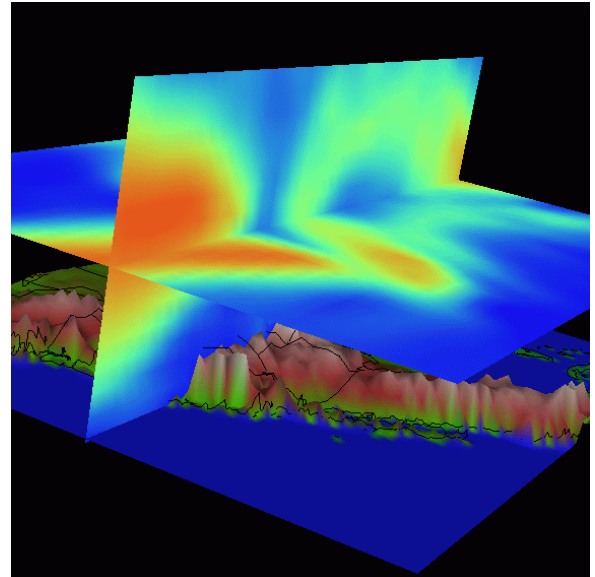
Advanced Visualizations and Situational Awareness

Decision makers in complex and dynamic operational environments require a comprehensive and up-to-the-minute understanding of the status of their system. Situational awareness is the capability to be aware of all that is happening within a specific environment, along with an understanding of how one's actions may affect the various aspects of a specific goal.

The importance and criticality of Situational Awareness is directly proportional to the criticality of the environment; and the actions that are to be taken within that environment. Situational Awareness becomes additionally important in environments where the flow of information may be exceptionally complex and where incorrect decisions may have significant repercussions. The operation control center for any utility represents just such a critical environment.



OSI's Advanced Visualizations and Situational Awareness (**OSI Landscape™**) product is a standalone decision support product, tailored to the operational and business objectives of your system, combining data mining, mathematical analysis and advanced visualization techniques to concisely and intuitively present users with essential Energy Control Center data.



**OSI Landscape** is the result of years of research and development into the critical area of control room operations. This extensive research has shown that true Situational Awareness requires more than traditional representations of available data through graphs, charts and tabular displays; rather effective and actionable Situational Awareness requires that information pertinent to an operational objective be selectively presented to the human user with an intuitive understanding. For this reason, **OSI Landscape** leverages easy to use and understand advanced visualization tools, which are specifically designed to supply users with actionable intelligence in support of their real-time decisions.

Behind the visualization functionality of **OSI Landscape** is a full suite of mathematical tools, including statistical analysis, signal processing and machine learning—tailored to the specific system condition being analyzed and presented. These complex calculations provide a heightened level of analysis over general calculations and data from energy control systems. For example, the dynamic security of your electrical grid can be represented as an easy-to-understand “safe-zone” of operation, using 3D graphical presentations. Within these presentations, the current operating point floats around, displaying the proximity to the boundaries of the “safe zone”.

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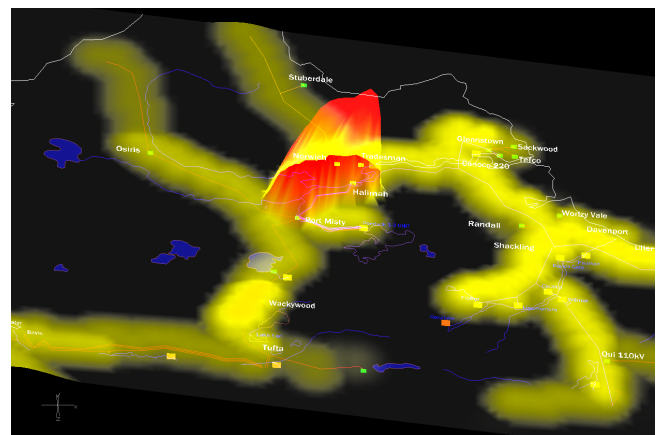
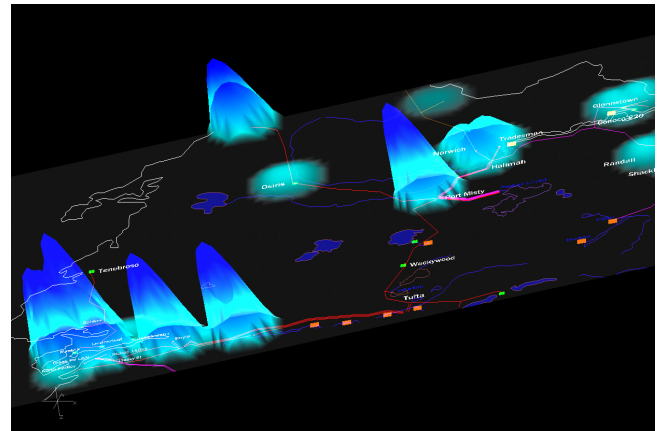
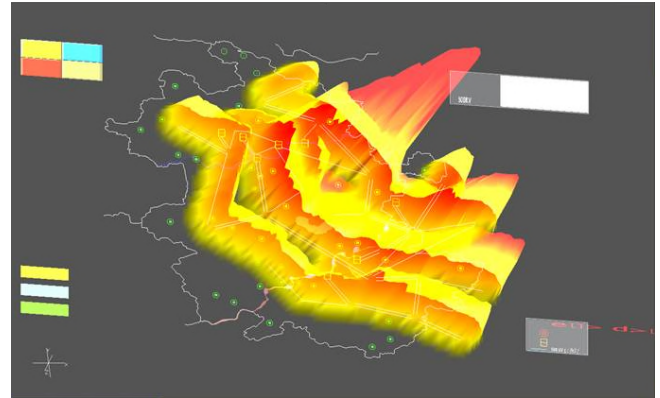
In many instances where relevant data is unavailable from a single application, **OSI Landscape** determines which data needs to be analyzed and synthesizes the necessary data from diverse sources, including data and systems that may be external to your energy control system, such as Market Analysis systems, Customer Relations Management systems, Contract Management Systems and more. By combining multiple sources of information from within the enterprise, **OSI Landscape** presents real-time intelligence of the overall system for optimized decision making.

This type of real-time and continuous analysis is available for a variety of operational and business needs, including the monitoring of:

- Power system grid dynamic stability
- Voltage collapse zones
- Energy Market price information
- Operational status in an Energy Market
- Impact of upcoming Market dispatch
- Unified indications of overall NERC operational and cyber security Compliances
- Performance Monitoring of critical applications and business intelligence
- Operational status and hot zones within a fluid network

**OSI Landscape** is composed of several pre-built and ready-to-use Situational Awareness components that can be tailored to the above-mentioned uses. Further components may be built upon your specific needs and constraints.

**OSI Landscape** leverages OSI's powerful **OpenView™** Graphical User Interface, based on the Microsoft .NET Framework; and exists as a standalone advanced visualization product that can be selectively deployed to view critical operational situations based on real-time data. **OSI Landscape** is designed to interoperate with any existing control system platform, whether based on OSI's powerful **monarch™** platform, or any other energy automation platform. **OSI Landscape** is capable of interfacing with non-OSI energy control platforms via simple to implement and use, standardized interfaces such as ICCP, OPC, ODBC, XML and more.



*Product specifications in this document are subject to change without notice.*