

## Overview



Nexus is the leading supplier of **rtOp<sup>x</sup>**™ - Real-Time Operations Excellence - solutions to the process and power industries. Nexus **rtOp<sup>x</sup>** is an enterprise-wide solution that improves operating performance, while increasing plant availability and supporting health, safety and environmental issues. Critical operational intellectual property knowledge is captured and deployed to leverage best practices company wide.

- Operational performance is raised by improving & accelerating operating decision-making, improving operator performance, reducing or eliminating abnormal event propagation, and enhancing advanced application effectiveness while reducing costs.
- Improvements in plant availability and health, safety and environmental issues are achieved through the early detection and management of abnormal events, reduction in operator errors, improvements in process equipment availability and validation of sensor and control loop performance.
- Operations intellectual property is captured and sustained through the digitization of best practices, personnel domain expertise and experiences.

Nexus **rtOp<sup>x</sup>** informs operations personnel of operational issues and enables them to pro-actively correct situations before they become critical. This is achieved by providing a solution that captures the best operating practices in the form of Knowledge Models (**rtKM<sup>x</sup>**). The collective experience of the organization is transferred to operations personnel through deployment of these models directly through the client's native DCS console. This information is also available to the existing maintenance and documentation systems.

By digitizing the intellectual property of the organization, a consolidated portfolio of best practices can then be leveraged globally across the client's assets. In addition to direct operations support, root cause diagnostics and advisories are provided to the entire organization to drive effective maintenance activities, process diagnosis and operational effectiveness. By combining raw information with the knowledge and experience of the organization, best practices can be deployed and operations excellence achieved.

Nexus **rtOp<sup>x</sup>** also lays the foundation for faster and more effective decision making by identifying and confirming the data integrity of all instrument and control systems in the facility. This is true whether the client has legacy analog devices or the newer digital smart field devices. Sensor Validation and Control Loop Diagnostics (**rtSCD<sup>x</sup>**) not only provides validated data for operations but can provide the basis for ensuring quality data is used in advanced applications like multi-variable control.

N E X U S



Nexus' operating integrity products and services are implemented with the Nexus **Oz**™ software product, which provides a framework for **rtOp<sup>x</sup>** applications, while supplying the sensor validation and uncertainty management functions for the management of normal and abnormal situations.