The **monarch™** platform is OSI’s state-of-the-art, real-time system architecture for supporting high performance and mission critical applications for the monitoring, control, scheduling and optimization of complex networked operations for the electric, oil & gas, transportation and water industries. Specific applications of the **monarch** platform include Supervisory Control and Data Acquisition (SCADA) systems, Energy Management Systems (EMS), Distribution Management Systems (DMS), Generation Management Systems (GMS), Network Management Systems (NMS) and Market Management Systems (MMS).

**monarch** is an acronym for **Multi-platform Open Network ARCHitecture**, which reflects its true open and distributed networked design. Employing a modular product design, **monarch** comprises a high performance, real-time kernel and an array of modular OSI software applications to meet the exact needs of your business mission.

**monarch** meets all of the key criteria for a truly open system architecture, being portable, expandable, upgradeable and maintainable to the highest possible degree. The scalable architecture of the **monarch** platform is able to support applications requiring millions of telemetry data points just as well as those requiring only a few hundred telemetry points.

**monarch** is easily expandable with standard, off-the-shelf hardware to meet increased sizing requirements while maintaining performance parameters at the same time. In order to prevent early system obsolescence, **monarch** uses no proprietary hardware in any component of the system.

The **monarch** platform achieves the highest level of performance, response and throughput and is capable of processing millions of transactions per second, as well as hundreds of thousands of alarms/events per minute, while providing an uncompromising user interface response to the operator.

The **monarch** platform is:

- Extremely scalable, with a very open architecture, designed for unequaled portability
- Delivered on a number of operating systems, including all popular UNIX®, Windows® and Linux® platforms
- Capable of hybrid configurations or “best in breed” operating system selections, to balance performance, usability and security concerns
- Able to support network-based RTU’s, IED’s, PLC’s and substation automation technology
- Able to support many industry standard open interfaces including SQL, ODBC, JDBC, DDE, XML/SOAP, Web Services, OPC and CIM, as well as specific Java and .NET API’s and middleware adapters to facilitate enterprise information integration needs.
- Able to support multiple data center configurations, encompassing hierarchal and geographically distributed systems

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monarch™ — Multi-platform Open Network ARCHitecture

monarch requires a minimal level of maintenance by using extremely easy, logical and intuitive processes for database, display and applications maintenance. All maintenance tasks can be performed online with real-time response and with no disruption to the production system. Your staff will greatly appreciate the efficiencies of the monarch maintenance environment and will save valuable time to concentrate on more productive tasks in support of your business mission.

Key features of the monarch platform include:

- Support for popular Relational Database Management Systems
- Secure segmented architecture with multiple points of defense and a robust security shield
- Network-based and distributed (IP-based) front-end communications interface
- Support for many popular RTU protocols, including legacy and open protocols such as DNP and IEC
- Support for Secure Windows or Web-based light-weight user interface
- Integration with email, paging and SMS information dissemination
- Secure integration with personal wireless communication devices, smartphones and tablets
- Advanced SCADA features for monitoring, alarming and reporting
- High throughput for processing hundreds of thousands of alarms and system events per minute
- Advanced data visualization and user interface, including 3D rendering and dashboards for Real-time Business Intelligence
- Seamless integration with the Microsoft Office Suite for reporting and accounting
- One of the industry’s richest and most user-friendly applications suites for your specific business mission in transmission, distribution, generation, market operation, network control and others

monarch presents an “evergreen” platform for your operational needs, which can easily expand, adapt and grow with you as your mission changes. monarch is readily able to act as the sole real-time integration hub for your enterprise, automating all of your real-time monitoring and business intelligence needs.

Due to its open nature and modular product design, software upgrades for monarch are amongst the simplest in the industry. Keeping up-to-date with all software enhancements on an annual basis is easy with a painless and cost effective upgrade strategy offered by OSI.

monarch simply meets all of your needs, year after year, as your one and only automation platform.