



DATASHEET

# RTI in Process Automation

ADDRESSING THE CHALLENGES OF BUILDING CRITICAL SYSTEMS

## HIGHLIGHTS

Rapid integration

Real-time data distribution

Process automation systems

RTI is the world leader in delivering fast, scalable messaging and integration software. Based on a decentralized software data bus, RTI allows real-time applications to communicate with each other and with enterprise and legacy applications. RTI's solutions feature a unique combination of high performance and broad standards support.

### INTEGRATING OPERATIONAL SYSTEMS - BRIDGING TO THE ENTERPRISE

Distributed systems are experiencing an explosion in the number of connected sensors, devices and subsystems. Program managers, system architects and engineers must investigate and adopt better technologies, architectures and integration techniques to meet growing system integration complexity and performance requirements.

RTI is a world leader in distributed system communication and integration solutions. RTI allows you to implement a next-generation Service-Oriented Architecture (SOA), easing the integration of large heterogeneous systems while at the same time maintaining system scalability, throughput and latency.

RTI has addressed the needs of enterprise-wide integration — from the network edge to the data center — for countless customers developing industrial control applications in factories, energy systems, military & aerospace, transportation, scientific research, and more. We solve two critical needs: rapid systems integration and broad real-time data distribution.

### RAPID INTEGRATION

RTI addresses the daunting challenge of integrating disparate systems and components — whether new, legacy or 3rd party. RTI utilizes a distributed integration bus architecture to reduce complexity and integration time.

### REAL-TIME DATA DISTRIBUTION

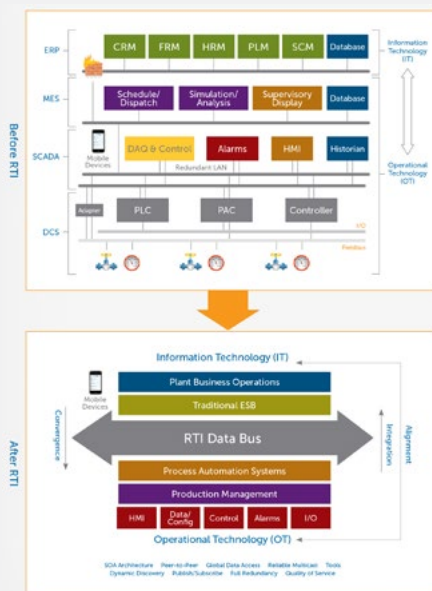
Ultimately, RTI is about getting data where you need it, when you need it. Large-scale systems are experiencing an ever-expanding volume of devices and data, some with extreme bandwidth and timing constraints. RTI consistently exceeds scalability, reliability and performance requirements, even in the most challenging applications.

## PROCESS AUTOMATION SYSTEMS — ENTERPRISE-WIDE INTEGRATION

RTI software enables implementation of an enterprise-wide Service Oriented Architecture (SOA). It is used in process control applications for the rapid integration of operational technology (OT) systems with each other and with traditional IT systems.

RTI's messaging and integration software satisfies the disparate requirements of IT and OT systems used to run the plant or equivalent — providing ubiquitous access to real-time information across an enterprise.

Ultimately, end-to-end process integration provides organizational agility; improves operational responsiveness, efficiency and availability; and enables new value-added and differentiating services.



## APPLY RTI'S INTEGRATION PLATFORM TO ALL TYPES OF AUTOMATION, CONTROL AND MANUFACTURING SYSTEMS

### Process Automation

- Cement & Glass
- Chemicals
- Metals & Mining
- Oil & Gas
- Petrochemical
- Pharmaceutical
- Power & Utilities
- Pulp & Paper
- Rubber & Plastics
- Textiles
- Water, Waste Water
- Wind Power

### Automation/Manufacturing

- Asset Management
- Building & Infrastructure
- Environmental
- Traffic Management
- Automotive
- Electronics
- Life Sciences
- Semiconductor

### Closed-Loop Control

- Adaptive Control
- Autopilot
- Avionics Systems
- Engine Timing
- Motion & Vision
- Robotics

## ABOUT RTI

Real-Time Innovations (RTI) is the largest software framework provider for smart machines and real-world systems. The company's RTI Connex<sup>®</sup> product enables intelligent architecture by sharing information in real time, making large applications work together as one.

With over 1,500 deployments, RTI software runs the largest power plants in North America, connects perception to control in vehicles, coordinates combat management on US Navy ships, drives a new generation of medical robotics, controls hyperloop and flying cars, and provides 24/7 medical intelligence for hospital patients and emergency victims.

RTI is the best in the world at connecting intelligent, distributed systems. These systems improve medical care, make our roads safer, improve energy use, and protect our freedom.

RTI is the leading vendor of products compliant with the Object Management Group<sup>®</sup> (OMG) Data Distribution Service<sup>™</sup> (DDS) standard. RTI is privately held and headquartered in Sunnyvale, California with regional headquarters in Spain and Singapore.

Download a free 30-day trial of the latest, fully-functional Connex<sup>®</sup> DDS software today: <https://www.rti.com/downloads>.

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