

EXPAND THE TECHNOLOGY ROAD MAP

Industry leaders help deliver secure information by converging networks throughout the enterprise.

>> Whether your company is large or small, you need to optimize network integration across your factory floor and throughout your enterprise for seamless, secure connectivity and fast access to production information. Cisco and Rockwell Automation are collaborating to accelerate this convergence by expanding the technology road map, joint solutions and services.

“We share with Rockwell Automation a passion for the relevance and ease of open, standard and securely-architected networking throughout the enterprise, including plant-level control and device networks,” says Chet Nambroodri, Cisco Systems director of Manufacturing & Energy Industry Solutions. “Real-time visibility throughout the production cycle is essential to exceeding the agility, quality and cost demands of the marketplace.”

Founded in 1984, Cisco Systems, Inc., San Jose, Calif. (www.cisco.com), is a multinational corporation with more than 66,000 employees and a Rockwell Automation Strategic Alliance Partner.

The company designs and sells networking and communications technology and services. This includes its core development areas of routing and

switching, and advanced technologies such as application networking, data centers, digital media, IP Interoperability and Communications System (IPICS), security, storage networking, Unified Communications, virtualization and video.

How Manufacturers Benefit

Cisco and Rockwell Automation focus on four key initiatives.

1. Common Technology View. A single system architecture that uses open, industry standard networking technologies, such as Ethernet, is paramount. Cisco and Rockwell Automation have adopted the use of Common Industrial Protocol (CIP™) networks for applications

throughout the plant, focusing on EtherNet/IP™ deployment.

Open standards provide the flexibility to use common components across multiple systems. Standard, unmodified Ethernet can help make it easier to understand and connect industrial devices and machines with the rest of the enterprise. This helps to reduce wiring and installation costs, and provides additional diagnostic capabilities and the flexibility to reconfigure and upgrade systems as your needs change.

2. Converged Plantwide Ethernet Architectures. Cisco and Rockwell Automation have developed Converged Plantwide Ethernet Architectures (www.rockwellautomation.com/go/tjarch) to help you implement Ethernet



Cisco Systems, Inc. is both a Strategic Alliance Partner and a participating Encompass™ Product Partner in the Rockwell Automation PartnerNetwork™. The company collaborates with Rockwell Automation to help manufacturers achieve manufacturing and IT convergence.

networks. These are built on common standards and provide design and implementation guidance and best practices. They incorporate Cisco's "Ethernet to the Factory" (<http://bit.ly/c28of>) solution and the Rockwell Automation Integrated Architecture™ that expands

across discrete, motion, process, batch, drive and safety applications.

The two firms also publish phased releases of deliverables for Ethernet network convergence, and they work closely with customers to expand the Converged Plantwide Ethernet Archi-

tectures. Their efforts also focus on migration challenges, secured connectivity for remote and guest access, time-critical applications such as CIP Sync™ and CIP Motion™, and greater Rockwell Software® FactoryTalk® application and service platform support.

3. Joint Solution Collaboration.

The two firms have collaborated on the development of the Stratix 8000™ modular managed industrial switch, creating an ideal networking environment for both IT and controls professionals. Using Cisco Technology and the Catalyst switch architecture, the product line helps to provide secure integration with the enterprise network. It also allows for comprehensive diagnostics from within the Rockwell Automation Integrated Architecture.

4. People and Process Optimization. When manufacturers integrate technology and networks, organizational and cultural differences often surface as the biggest challenges. Rockwell Automation and Cisco offer education and services to help foster discussions between IT and manufacturing.

It's the Real Deal

"To flourish, enterprises must improve agility, reliability and profitability of plant operations, amidst an environment of ever-changing technology and fierce global competition," Nambroodri adds.

The goal of this collaboration is to help you seize these opportunities using the products, architectures and services to help you transform your manufacturing operations through the secure convergence of plant and business systems. □

See page 16 for more about manufacturing and IT convergence.

Rockwell Automation & Cisco Alliance

www.rockwellautomation.com/go/p-cisco



Plant Floor-to-Computer Data Exchange that Manufacturing, IT and the CFO Can Agree On

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