“We strive every day to do what matters most to patients: accelerating access to affordable medicines and finding solutions for unmet needs.”

Dr. Reddy’s is a global pharmaceutical company providing affordable and innovative medicines for healthier lives. Our portfolio consists of all dose forms in multiple therapeutic areas as well as biologic drugs.

SAMIRAN DAS
Executive Vice President, Head Technical Operations, Global Generics
Worldwide leader in IT that helps companies seize the opportunities of tomorrow by proving that amazing things can happen when you connect the unconnected.

The Security Business Group drives the company’s cross-portfolio security strategy, architecture and internal security platforms - including all solutions related to network security, content security, secure access and mobility, and threat defense.

BRET HARTMAN
Vice President and Chief Technology Officer, Security Business Group
World’s largest company dedicated to industrial automation and information making it’s customers more productive and the world more sustainable.

Architecture and Software provides control, visualization, information, motion, safety and sensing products and solutions to customers worldwide.

FRANK KULASZEWICZ
Senior Vice President, Architecture & Software
The Connected Enterprise

Accelerating Industrial Performance
<14\% MANUFACTURERS
In the U.S. have tied their machines to the enterprise network

SOURCE: Industry Week
Transactional data: orders, supply network, product design …

IT

CONVERGENCE

OT

Real-time data: CONTROL, SAFETY, SECURITY + alarms, events, states, energy, diagnostics, …

ERP   FINANCIALS   HR   LOGISTICS   QUALITY   CUSTOMERS   …

INDUSTRIAL “THINGS”   SENSORS, ACTUATORS   CONTROLLERS   MATERIAL & TRANSPORT   MACHINES & EQUIPMENT   LABELERS & PRINTERS   …
Dr. Reddy’s and Rockwell Automation

Began with the Integrated DCS and MES System at a API Plant and to enhance Operational Transparency to meet Regulatory norms – e BPR

Need: An Integrated and Connected Manufacturing

Quality by Design (QBD) + SCADA + Implementation of Action Plan

Data Hygiene / Integrity / Accuracy

Quality by Design (QBD)

- Design Space
- PAT
- ‘Golden Batch’, Defined ‘end points’, Feed back / forward loops

SCADA

- Online Recipe Management (SCADA with Historian)
- Data capture at source, eBPR, MES

Implementation of Action Plan

- Troubleshooting, CAPA effectiveness, APQR – actionable, OOT actions
- Multi Variate Analysis

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Brand Integrity
Product Serialization

Unique serial numbers on every product, package, case and pallet

Trace materials from supply network to consumption
Enabling Technologies

- Information Management & Analytics
- Scalable Computing
- Mobility & Visualization
- Secure Network Infrastructure
- Multi-discipline Control & Information
- Smart Assets

INFORMATION PLATFORM

Secure Network Infrastructure
Production Optimization
Manufacturing Intelligence
Visualization & Mobility
Diagnostics & Prognostics
Track / Trace, Genealogy

Delivering the information in the context that you require
The Connected Enterprise

CHALLENGES

Organizational Alignment
Competency, Talent
Technology Adoption
Data Security, Privacy
Interoperability Standards
The Connected Enterprise delivers
transformational value in *productivity and
*global competitiveness

Faster Time to Market
Lower Total Cost of Ownership
Improved Asset Utilization
Enterprise Risk Management