REMOTE MONITORING IN THE AGE OF THE CLOUD

Leveraging new technology to address longstanding challenges

Axel Rodriguez
Manager, SaaS products
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Macro Trends and PRESSURES

Times are changing.....

Market
Global Competitiveness

Workforce
Talent Shortages & Skills Gap

Risks
Changing Risk Patterns

Technology
Industrial Internet of Things

Opportunities and challenges in changing global landscape

Global challenge hiring and retaining

Highly publicized and expensive incidents worldwide

IoT value at stake and growth of internet enabled assets
REMOTE ACCESS (THE EARLY DAYS)

Point to point connections
Focused on reactive support
Only used when needed
Access limited to software available in the device (either local or remote)
Limited scalability
By 2020, Millennials will comprise half the global workforce. By 2025 – 75%.

- Deloitte Millennial Survey

Worker demographic is changing

Expectations
- Digital
- Mobile
- Personal
- Self Serve
- Fast & Easy
- On Their Terms
EARLY IOT INVESTMENTS ARE DRIVING RESULTS

Productivity improvements and reductions in operating costs

58%  Improved product quality
42%  Improved information for business analytics

47%  Improved maintenance uptime
47%  Increased speed of operations

57%  Decreased manufacturing costs
57%  Increased speed of operations

41%  Improved information for production decisions
41%  Improved information for production decisions

40%  Improved coordination with customers

Sources: MPI Internet of Things Study, The MPI Group, December 2015
Manufacturing and Industrial Enterprises are becoming CONNECTED

Intelligent systems that are able to:

ANALYZE ➤ PREDICT ➤ ADAPT ➤ SMARTER OPERATIONS
THE CLOUD

New possibilities:
- Disruptive force in Manufacturing
- New capabilities, creativity & innovation
- Step change in simplicity & cost of ownership for Manufacturing IT assets
- Easy integration of data from multiple sources
- Access information from anywhere
- No large initial costs
- Scalable
  …
SECURITY

Fast evolution
Narrowing into a proper balance
Solutions being designed with a security first approach
Permanent connectivity becoming viable

Converged Plant Wide Ethernet Architecture (CPWE)
INFORMATION ENABLED

Easier access to actionable information
Right information, for the right person in the right place
Unlock the full potential of the control systems
Learn from real production data
Integrate lines, plants, enterprises

Driving the evolution of the Connected Enterprise
WHAT’S COOKING

Accelerated leverage emerging technologies (cloud, IoT)
Solutions for specific market needs
Continuous evolution (vs. step by step)
New business models (SaaS)

Paving the way to a future of even smarter machines & more efficient operations
Machine performance could be monitored from anywhere

- Drive for higher availability and throughput
- Reduce maintenance cost
- Operate machines more effectively

Machine builders could:

- Learn from the machines deployed
- Be able to better partner with users to improve machine availability
- Improve capability to prioritize improvements
REMOTE MONITORING FOR SMART MACHINES

- Pre-Built Dashboards
- Secure Cloud gateway
- Pre-defined controller data structures (Line integration ready)
Smart Machine Information anywhere

To help users be more productive

To help machine builders make better machines

Leveraging robust & secure new technologies

WELCOME TO THE AGE OF THE CLOUD