Welcome to the Maximo track

Mads Rasmussen, Nordic Sales Leader, IBM Maximo Asset Management
## Agenda for the Maximo track

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<td>12:45-13:45</td>
<td>Maximo Overview</td>
<td>Mads Rasmussen/David Havican</td>
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<td>13:45-14:45</td>
<td>Maximo Mobile</td>
<td>David Havican, Tivoli Product Designer and Architect</td>
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<td>14:45-15:00</td>
<td>Coffee break</td>
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<td>15:00-16:00</td>
<td>Maximo Spatial</td>
<td>Dan Sander Petersen, Atkins Danmark</td>
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<td>16:00-17:00</td>
<td>Implementation and Support/Maintenance</td>
<td>Jens Caju Pedersen and Mikael Wassmann</td>
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<td>17:00-19:00</td>
<td>Free time</td>
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In a smarter world, we need our infrastructure to propel us forward, not hold us back

An infrastructure that is instrumented, interconnected and intelligent. An infrastructure that brings together business and IT to create new possibilities

A dynamic infrastructure
A dynamic infrastructure...

- Enables visibility, control, and automation across all business and IT assets
- Transforms assets into higher value services
- Highly optimizes operation and IT business processes to achieve more with less
- Addresses the information challenge and convergence of operation and IT assets
- Manages and mitigates enterprise risk

and delivers superior business and IT services with agility and speed
For asset intensive organizations, smart means finding a way to lead in a new environment shaped by three mandates:

**IMPROVE SERVICE**
Enhance asset reliability and availability to deliver the most optimal service to the business.

**REDUCE COST**
Improve the productive useful life of assets at the most reasonable cost for a greater return on asset investment.

**MANAGE RISK**
Improve compliance with environmental, health, safety, regulatory and licensing requirements.
Asset Management

*Helps improve service, reduce cost and manage risk by*

- Managing assets through all the stages of their lifecycle
- Managing all asset classes in a single system – Production, Facilities, Transportation, Technology, Communications
- Supporting converged assets as they become intelligent and interconnected
- Applying deep industry specific solutions
What’s smarter about an asset infrastructure?

Centerpoint uses Smart Meters to reduce power consumption through demand response.

A bridge on I-95 in New London CT has built-in sensors to monitor stress and indicate potential failure.

Locomotives built by Bombardier have on-board computer systems using telematics for real-time diagnostics.

A datacenter reduces energy consumption and optimizes service delivery by collecting power, thermal and temperature inputs from IT equipment, datacenter infrastructure and facilities.

Smart buildings use building automation systems to optimize comfort, safety and energy consumption.
Smart is: Delivering Total Lifecycle Asset Management

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<th>Traditional Asset Classes</th>
<th>Facilities and Real Estate</th>
<th>Transportation and Fleet</th>
<th>Infrastructure</th>
<th>Plant and Production</th>
<th>IT Equipment and Network</th>
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- **Drivers of Asset Management for A Smarter Planet:**
  - The emergence of pervasive devices, embedded chips, RFID, sensors, detectors and IP addresses attached to enterprise assets
  - Need to measure and manage the availability and use of all strategic assets
  - Improved risk management across the enterprise
Maximo Asset Management Strategy

- Manage all asset classes in a single system – Facilities, Production, Transportation and IT
- Support converged assets - IT enabled and Networked Assets & Assets with embedded IT
- Provide Asset Based Service Management - managing a system of logically and physically connected smart assets
- Implement IT Best Practices for all Assets - Incident and Problem Management, Change and Configuration Management, Software Asset and License Management, etc.
- Leverage Tivoli and other solutions for Smart Asset challenges: Monitoring, Security, Storage, Network, Availability, Automation, etc.
- Continue to protect customer investments by supporting existing and new platforms - focusing on ability to upgrade customer implementations, and delivering a modern, stable architecture
Smart is: Supporting Converged Assets
Smart is: Delivering industry specific capabilities and add-on’s

- Energy & Utilities
- Industrial
- Public Sector
- Oil & Gas
- Life Sciences
- Transportation
- Telecom
- Financial Services
- Other
Linear Asset Manager

For asset intensive and highly regulated industries such as Railway, Roadway, Oil and Gas, Water and Waste Water, and Utilities

**Highlights**

- Manage continuous assets with dynamic segmentation
- Automate asset lifecycle management in complex operational environments
- Better manage compliance reporting efforts
- Evaluate operational status more accurately
- Help reduce costs and enable proactive maintenance planning

Managing roadways and railways with IBM Maximo Linear Asset Manager enables dynamic segmentation, giving crews the ability to identify work requests by mile or kilometer marker, lane, direction, offset and height, as well as to identify bridges or tunnels.
Configuration Migration Process

Migration Manager:

- Migration of Configurations between Maximo environments
- Supports standard rollout environments:
  - DEV->TEST->PRODUCTION
- Reduce Deployment Costs
- Purpose:
  - Seed a new Maximo environment with all configurations and customizations
Enhancements for Improving Efficiency

- Feedback from customers regarding Maximo performance and usability
- Site visits with customers that helped pinpoint some key areas for improvement

Goal: Get work done more quickly and efficiently

- Improvements to bulk actions from list page
- Run-in-background mode
- Change status with fewer clicks
- Easier access to advanced search
- Better advanced search dialog
- Improvements to time out
- Ability to cancel out of a QBE
- Better handling of Y or N fields
Enhancements for Improving Efficiency

Increased Efficiency and Performance: Changing Status

Make record change to a specific status: fewer clicks than versions 5 & 6

No waiting for work order to change status: get email notification when process is complete
Enhancements for Improving Efficiency

Better Performance: Timing Out Queries

Administrators can configure a setting so that queries time out after a designated amount of time.
End users can stop a query in progress with a click of a button – no more closing the browser to end a query.
Maximo Asset Management 7.1 – Available Products

Released in May 2008:
- New coverage for Linear Assets and other Asset Management Capabilities
- Decreased deployment / configuration cost
- Enhanced user interface and security features
- Upgrade from release 6 to 7.1 available
- Available in 16 Languages
- Expanded Platform Support

2008

- Maximo Asset Management 7.1
- Maximo Linear Asset Manager
- Maximo Change & Corrective Action Manager
- Maximo Asset Navigator
- Maximo SLA Manager
- Maximo Adapter for Project Manager
- Maximo Enterprise Adapter for SAP
- Maximo Enterprise Adapter for Oracle
- Maximo Mobile Work Manager
- Maximo Mobile Inventory Manager
- Maximo Adapter for Primavera
Maximo Asset Management 7.1 – Available Products

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- Upgrade Utilities
- Maximo Adapter for Project Manager
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- Maximo Adapter for Primavera

- Maximo for Oil & Gas 7.1
- Maximo for Government
- Maximo Asset Config. Mgr.
- Maximo for Service Providers
- Maximo for Utilities / Spatial
- Maximo for Transportation
- Maximo for Life Sciences
- Maximo for Nuclear Power

- All Industry Solutions available for Release 7.1
- Transportation
  - Telematics
  - Motor Pool billing
- Oil & Gas
  - Action tracking
  - Management of Change
- Upgrades available
Customer Adoption of Maximo 7.1

Amtrak
• Upgraded from Maximo 6 to 7.1

Austin Energy
• First customer live on 7.1

City of Chesapeake
• Maximo 7.1 live in 10 weeks

Chevron Mining Inc.
• Maximo 7.1 live in 13 weeks
Maximo Product Roadmap
Industry Solutions

- **Asset Configuration Management**
  - Service Lifecycle Management (SLM) capability to provide greater knowledge of products in service. Supports major asset operators in Aviation, Aerospace, and Rail sectors.

- **Nuclear**
  - Enhance permits, config management, and corrective actions to improve operational performance, regulatory excellence, and life extension to get Maximo in early build cycle for Next Generation nuclear plants.

- **Oil and Gas**
  - Expand Asset Integrity Management and Integrated Operations to improve control of work, risk analysis, operators logs, and integration with the IBM Chemicals & Petroleum Integrated Information Framework.

- **Transportation**
  - Introduce Rail Rolling-Stock support to compete for rail customers managing their mobile assets.

- **Utilities**
  - Improve usability via performance enhancements including CUE Perform Acceptance and improving UI and CUE focus issues.

- **Spatial**
  - Improve user experience through Visual Planning and improvements to service addresses, auto creation and location of work orders and service requests, Polygon selection improvements.
Maximo Scheduler

- Adds Gantt and Chart capabilities into Maximo providing an intuitive graphical user interface for the planning and scheduling of work.

- Introduces new planning constraints to Maximo such as Start to Finish, Finish to Start and Lag Times to allow a Work Planner to accurately plan work orders and resource allocations.

- Provides the Work Scheduler the ability to modify schedules based on resource availability.

- Work Schedulers will have the ability to use Critical Path Methods using activity precedence and date constraints.
Maximo Scheduler Benefits

- **Increased Asset Uptime**
  - View all open work orders on an asset simultaneously and logically group and schedule them to reduce production downtime

- **Enhanced Labor Productivity**
  - View resource load against availability and resolve over allocation and under utilization

- **Reduced Service Disruptions**
  - Identify and prioritize critical work to prevent costly interruptions and delays

- **Efficient Planning**
  - One dynamic view of emergency, planned, and unplanned work that compete for schedule and resource

**Maximo Scheduler is the Planner’s dashboard!**
Maximo Scheduler

- Relocate guard rails to allow forklift access
- Relocate associated electrical conduit
- Is in allow
- Check pump operation
- Check pump heat switch
- Check seal and housing for leaks
- Inspect impeller for wear
- Inspect amperage and voltage with motor operated
- Inspect main disconnect and all electrical

Project One:
- Mechanic
- Electrician
Maximo Data Archiving with IBM Optim

Extract, Store and Restore

- **Current Data**
  - 1-2 years
  - Maximo Production Database

- **Active Historical**
  - 3-4 years
  - Archive Reporting Database
  - Compressed Archives

- **Online Archive**
  - 5-6 years
  - Non DBMS Retention Platform
  - Compressed Archives

- **Offline Archive**
  - 7+ years
  - Offline Retention Platform
  - Compressed Archives

- IBM Optim
  - ATA File Server
  - CD Tape
  - Optical
  - IBM RS550
  - HDS
  - Archive
  -Restore
Maximo Asset Management Roadmap

2009

- **Maximo Archiving with IBM Optim**
  - Work Orders
  - Purchase Orders/Receipts
  - Purchase Requests
  - Invoice
  - Assets
  - Workflow transactions
  - For Release 6.2.x

- **Maximo Scheduler 7.1.0**
  - Gantt Chart
  - CPM
  - Resource graph

- **Service Provider 7.1.1**
  - Customer Domains
  - Support ISM

2010+

- **Maximo Mobile Manager 7.1.1**
  - Mobile Work Manager
  - Mobile Inventory Manager
  - Mobile Asset Manager
  - Maximo Everywhere (PRPQ)

- **Maximo fixpack 7.1.1.6**
  - ITM for Maximo (Monitoring)
  - Cognos Report Integration

- **Life Sciences & Calibration 7.1.1**
  - Mobile Calibration

- **Maximo Mobile Manager 7.1.1**
  - Mobile Work Manager
  - Mobile Inventory Manager
  - Mobile Asset Manager
  - Maximo Everywhere (PRPQ)

- **Oil & Gas 7.1.1**
  - Reliability & Availability Analysis

- **Transportation 7.1.1**
  - Consist Management (Rail)

- **Nuclear Power 7.1.1**
  - Permitting, Config. Change Mgmt

- **Utilities 7.1.1**
  - Reliability & Availability Analysis

- **Spatial Asset Management**
  - Polygon selection, Usability enh.

- **Asset Configuration Mgmt 7.1.1**
  - Service Data Management

- **Primavera 7.1.1**
  - Import Task Resources
Thank you!