Evolving with Maximo Enterprise Asset Management - Discover IBM's new Maximo EAM Offerings and Roadmap

Watson IoT.

November, 2019

Lisa Stuckless – IBM Maximo Offering Manager





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What you'll take away from this session...

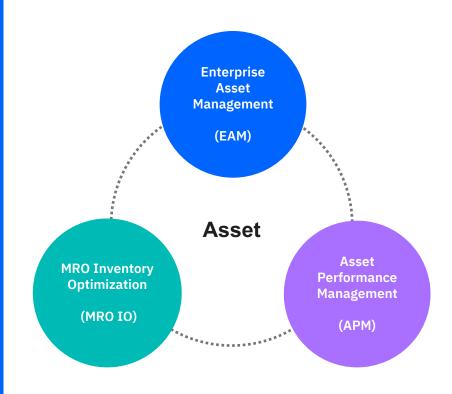
- Learn about Expanding the Maximo Portfolio
- IBM's Maximo Investment Strategy
- Advancing with Innovation
- Product Roadmap



We are helping customers improve operational effectiveness and efficiency

IBM has identified three major disciplines that help industrial companies respond to the global productivity crisis with improved efficiency, reduced risks, and lower costs:

- EAM to capture asset data and manage execution of work
- APM to optimize performance through prediction and prescriptive actions
- MRO IO to improve uptime and cost with better inventory control



Our expanded portfolio of industry-leading Maximo solutions

IBM Maximo Solutions

Core Components

Enterprise Asset Management

Keep critical assets operating at maximum efficiency.

- Core Enterprise Asset Management
- Industry Solutions
- Service Provider
- Asset Configuration Manager (ACM)
- Scheduler / Plus
- Spatial
- Linear
- ERP Adapters
- Health, Safety, Environment (HSE)
- Worker Insights
- Anywhere
- Assist

Asset Performance Management

Improve equipment performance with analytics and AI.

- Monitor
- Health
- Predict

MRO Inventory Optimization

Reduce costs and minimize asset downtime.

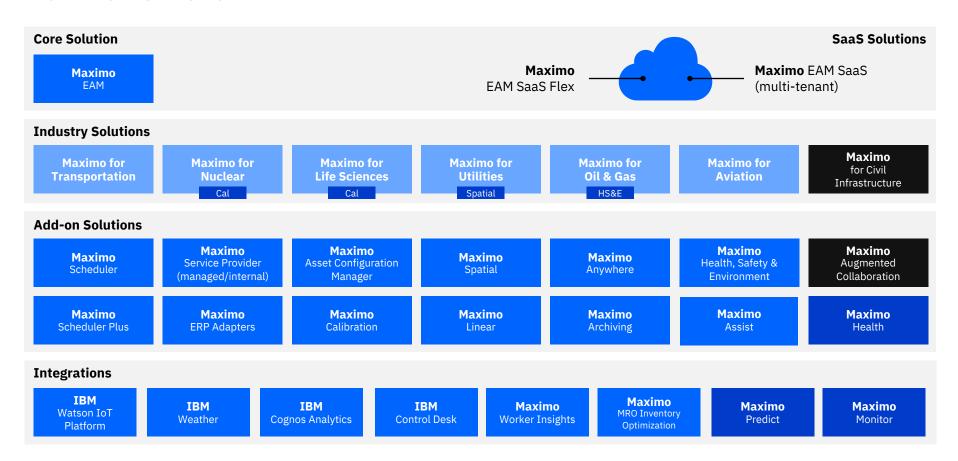
- Spare Parts Inventory Optimization

Foundations

 Watson IoT Platform
 Connect, Collect, Analyze, Optimize, Govern and Deliver
 Tailored insights from AI and analytics models and algorithms (Visual & Acoustic)

 IBM Services
 Industry, domain and IoT expertise
 Industry solutions with pre-integrated AI / Machine Learning capabilities

Maximo Portfolio



Maximo on the cloud

- 2 delivery models of SaaS now available to meet customer needs
- Fastest revenue segment and growth
- Wide representation between small and large customers; private and public

Maximo EAM SaaS (Multi-tenant)

- NexGen Asset Management, continuing to accelerate our SaaS momentum
- Continuous delivery allows customers to adopt and leverage, new features, functions, updates with cloud service
- Free trials full Digital journey
- Deploy in minutes with with automatic deployment
- Includes IBM Maximo EAM Scheduler
- Integrations supported via REST APIs.

Maximo EAM SaaS Flex

- SaaS Flex is a combination of the SaaS economic model with greater flexibility and much more latitude to configure and customize
- Offers Industry Solutions, add-ons and business partner content.
- Full development environment, with additional non-prod and capacity extension available.
- VPN for integrations to other tools and systems
- Backups of data and configurations

Secure, compliant and available with IBM Cloud



Standardized, best-practicesbased facilities



Better power, bandwidth and performance









Redundant, best-in-class infrastructure



24/7 on-site security, with rigorous controls

IBM Maximo: Investments and Innovation



1. Maximo EAM Modernization

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Persona Based Experience Responsive Work Centers Configurable



2. Mobility

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Anywhere Assist

Augmented Collaboration

Watson Assistant



3. Asset Performance Management

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Monitor

Health

Predict

Maximo EAM Releases

7.6.1 – July, 2018 7.6.1.1 – May, 2019

New Work Centers and enhancements to existing ones.

Supervisor

Technician

Inventory Management

Inspections

Service Requests

Administration

Asset Manager

Business Analyst

Maps



Improving the user experience

Modernized User Interface

Advanced mapping capabilities

Ease of build and deployment features – installation videos

Free 3-day online training course



Strengthen work management with mobility

Artificial Intelligence with Equipment Maintenance Assistance.

Hands- free with Watson conversation.

Worker Safety

Token Licensing



Innovation and technology advancements

Updates to meet industry and regulatory requirements.

- Aviation
- Asset Configuration Manager
- Service Provider
- Transportation
- Scheduler
- Spatial / Linear



Continued focus on Industry Solutions

Scheduler Optimization models for capacity planning, resource assignment and dispatching

Business Intelligence using Cognos 11

Business Analyst dashboard and KPIs



Analytic insight for improved decision making

IBM Watson IoT / © 2019 IBM Corporation

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Technical investment to reduce total cost of ownership

Continuing to improve and expand the foundation of Maximo.

Providing tools that address serviceability, integration and security requirements.

Meeting the needs of the modern Maximo customer. **Install/Deployment**



Expose object structures through Swagger to enable live testing and documentation. Wizard based initial configuration for cloud deployments. Token based licensing model. Containerization Support.

Serviceability Interface



Monitor Application Health with access to real-time system information to quickly troubleshoot Maximo. Continue to add metric points.

API Security Improvements



API security and Keys provide more robust and enhanced capabilities. Shorten authentication integration time by using published templates. Option to manage security at business logic level in addition to UI.

Configurability

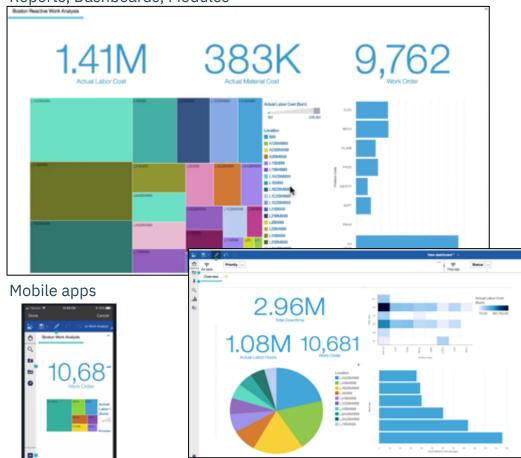


Embedded automation scripting editing tool. Additional trigger points available for scripts.

Maximo Analytics enabled by Cognos

- Extend your data analysis capabilities into the Self-Service reporting and dashboard features provided by Cognos Analytics.
- Create insightful reports and dashboards from packages you publish from Maximo or via new web based models.
- Visualize, explore and share insights on your Maximo data in Cognos governed environment.
- Offers Cognos mobile apps
- Sign up for a free trial of Cognos Analytics today https://ibm.co/2zFQU2U
- Demo Videos: Google Maximo 761 Cognos Analytics

Reports, Dashboards, Modules



Maximo Work Centers

Modernized role-based applications



Reimagined Maximo foundation



User-driven design



Streamlined actions and display for ease of training and use



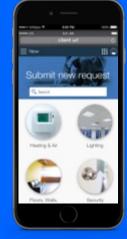
Connected, responsive mobile display

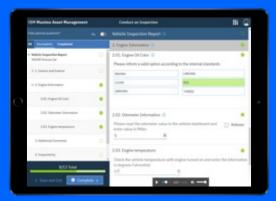


12 Work Centers focusing on Asset, Work and Inventory management

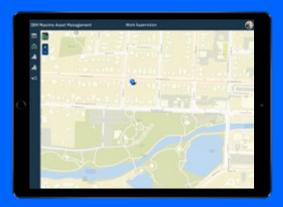
Work Inspection

Service Requests





Work Supervision



Maximo Work Centers



Work Technician, Supervision

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Daily Work: Works on assignments and reports actuals with minimal effort. Can quickly take follow-up actions to respond to requirements in dynamic work environments.



Inspections

Inspecting Assets:

Create and manage inspection forms for inspectors to complete inspections quickly and easily.



Inventory Management

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Manage Demand:

Maintaining the storage of inventory with the proper amount of products along with order fulfillment to minimize asset downtime.



Service Requestors

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Entering in a Request: Ability to submit a

problem quickly and efficiently.

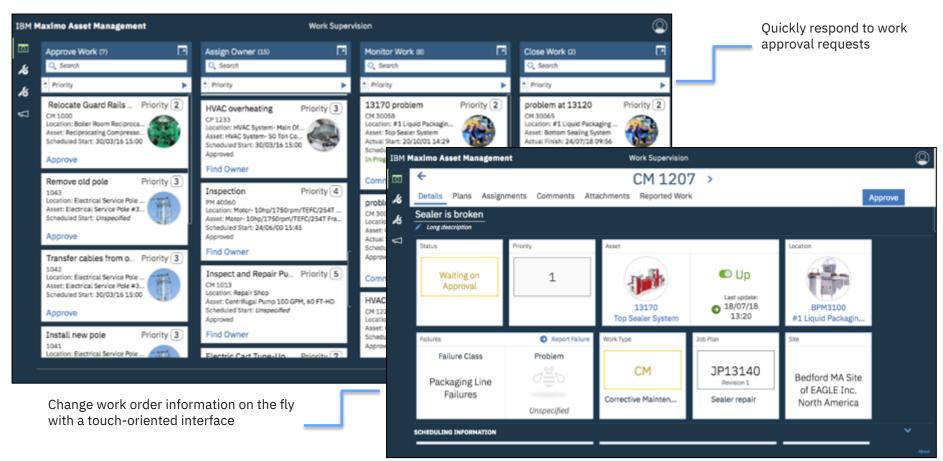


Business Analyst

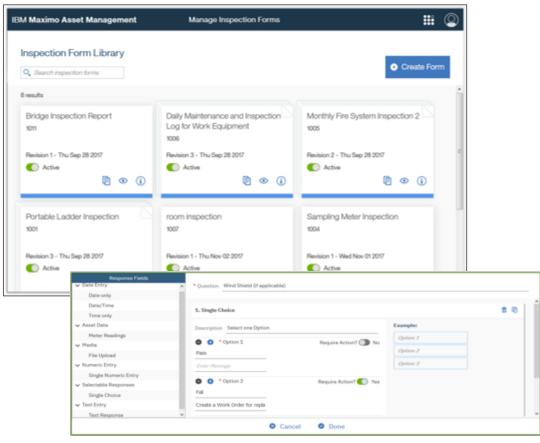
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Understanding the Data: Knows the Maximo database and sql. Configures queries, kpi's, and charts to analyze Maximo data.

Maximo Work Center Examples



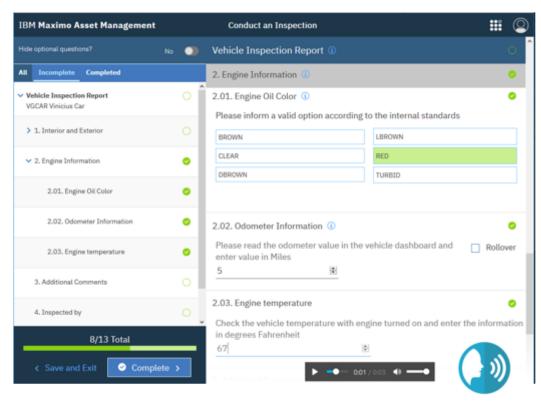
Inspections – Manage Forms



Provides capabilities to define an electronic inspection form:

- Accommodate requirements of traditional paper based inspections.
 - · Group questions, mark required.
 - Attach documents, free form text, meter readings.
 - Conditional Questions
 - Colors and Icons to indicate response
- Revision control.
- Audio guided inspections and follow up actions.
- Used for Job Plans and Routes.
- PM can be set up for recurrent inspection on assets and locations.

Inspections – Conduct an Inspection



Leverages Watson services to conduct a hands free inspection by just using voice responses.

- Report results in a connected mobile device.
- Inspection statuses are managed automatically and differentiate pending, in progress and completed results.
- Easy and intuitive navigation to report and visualize single or multiple inspection results.
- Search and evaluate individual completed inspection results.
- Associate results to Assets and Locations, WOs and tasks.
- Historical Inspection results are presented in both Assets and Location applications.

New in 7.6.1.1: Manage Inventory Work Center



 $\mathbf{1}_{ullet}$ Easier set-up

- Add storerooms
- Set up item master
- Define units of measure
- Bins, lots, and rotating items
- Create initial balances



2. Faster transactions

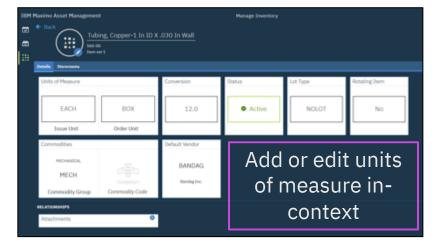
- Update balances
- Issues and transfers
- Fulfill reservations
- Return issued items
- Physical counts

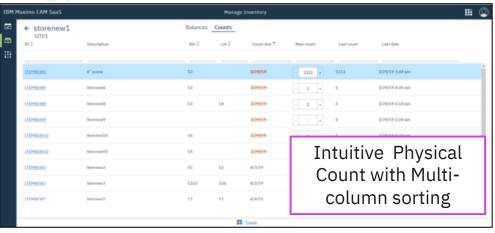
Manage Inventory – Perform actions in context



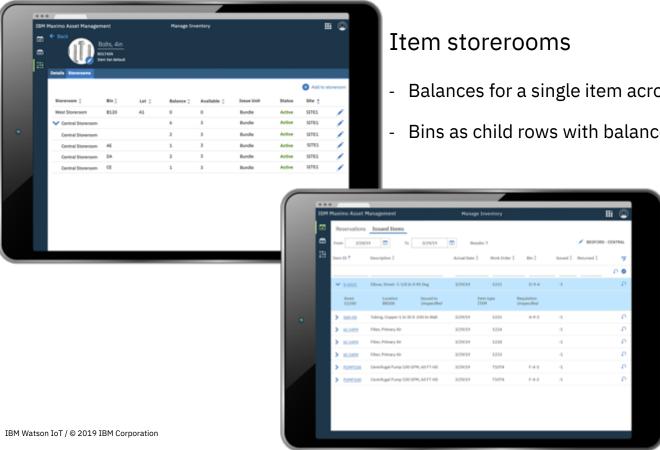
Create, View, Edit, Issue and Transfer directly from a row from Storeroom or Reservation







Manage Inventory: Improved summary information

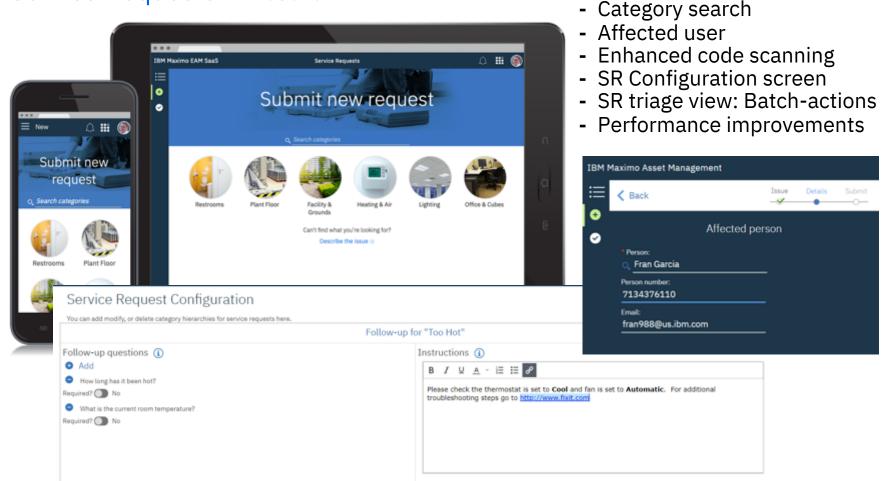


- Balances for a single item across the org
- Bins as child rows with balance roll-up

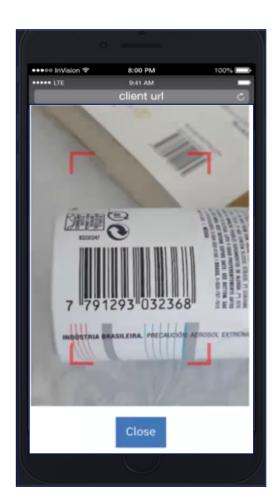
Issued items list

- See what has been issued from your storeroom
- Return items to the bin & lot they came from

Service Requests in 7.6.1.1



Service Requests in 7.6.1.1 - Improved code scanning



- Camera is now opened in video mode instead of photo
- Red view finder frame is overlaid to help the user focus
- When the code is in focus it snaps to the picture and renders the ID
- An audible beep will sound to indicate success

Supported codes:

- Codabar
- Code-39
- Code-93
- Code-128
- EAN

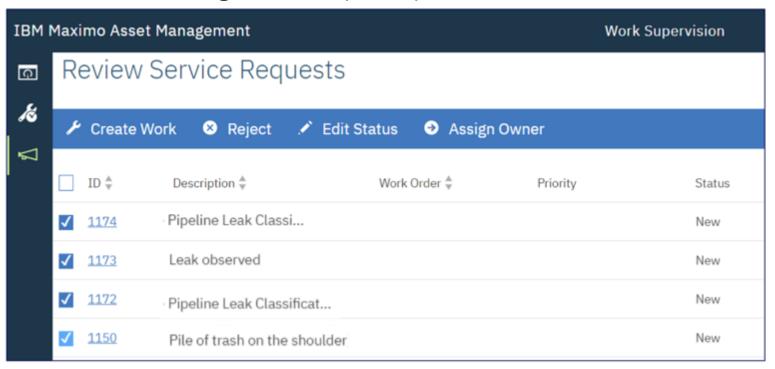
- EAN-8
- Interleaved 2 of 5
- QR code
- UPC

Devices:

- Android/Chrome
- Apple/Safari
- Windows/Edge

Service Request processing page Enhancements

Perform an action against multiple requests



Dynamic Job Plans - 7.6.1.1

Job Plan

Unit of work : 1 km



1 labor for 20 minutes

Work Order



Total Work Units: 4 km



Total labor = 20 minutes * Total Work Units / Unit of Work 20*4/1 = 80 minutes

A job plan resource (or resources) can be scaled proportionally based on the scope of work Note: Labor and tools can be scaled by qty or duration or both

Static – Job plan quantity/duration applied directly to work order (standard Maximo option)

Proportional – Calculate the work order quantity/duration by dividing the quantity/duration on the job plan by the job plan work units multiplier for a given work order / asset combination.

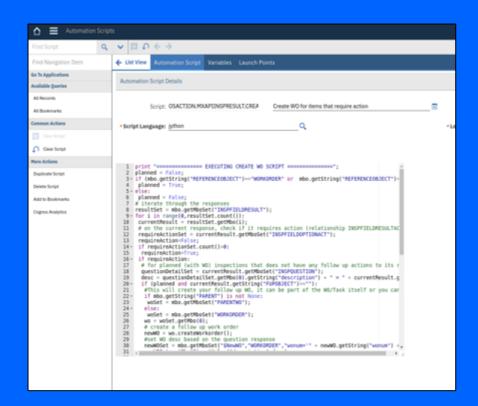
Level – Select the quantity/duration based on a pre-defined threshold (for example only one foreman is required for work under 5 miles in length. Any work over 5 miles requires 2 foremen)

New Action within Job Plan application

Selection Action >Simulate dynamic job plan

Scripting Editor embedded in Automation Script application 7.6.1.1

- Syntax highlighting and Line numbers for improved readability
- Collapsible code blocks
- JavaScript validations prior to save
- Auto-complete reserved words, common functions, etc for Python and JavaScript
- Supports some auto-completion of existing variables and methods
- Tab will indent the code instead of taking you to the next Maximo Field
- Supports Ctrl-z for Undo



IBM Maximo MRO Inventory Optimization



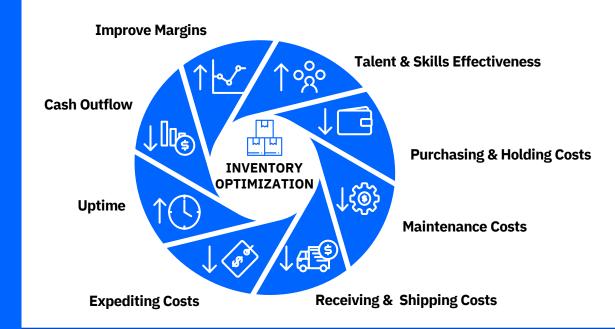
Addressing key operational challenges



Delivering rapid payback to fund broader transformational operations initiatives

Typical implementation is 3-5 months

Payback period typically <1 year



Up to 50% reduction in unplanned asset downtime



20-40% reduction in inventory costs



15-35% savings in maintenance budgets

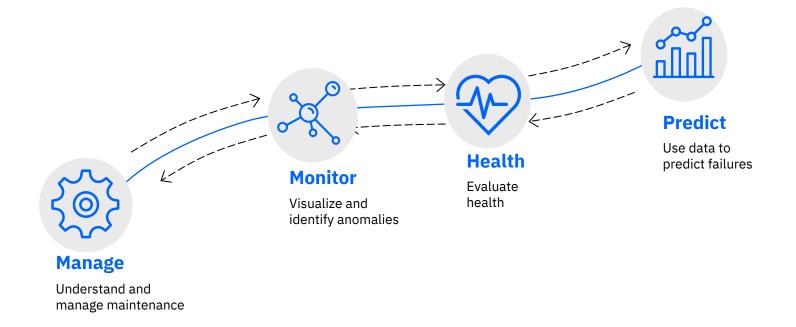


10-25% increase in service levels



Journey to Predictive

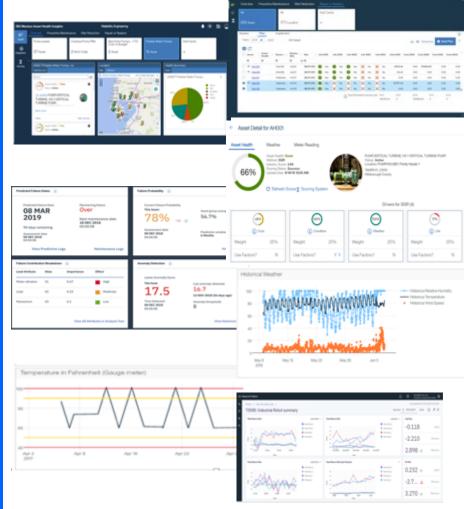
Improves uptime and reduces maintenance costs



IBM Maximo APM

Reduces downtime and maintenance costs with asset health metrics and predictive insights

- Monitor Use sensor and SCADA data alongside machine learning to create custom models. Associate data points, assets, and hierarchies and visualize data over time.
- Health Provides asset health assessments using asset records, sensor data, and other external data to inform maintenance and replacement decisions
- Predict Predicts asset health using statistical models and machine learning. Includes failure date/probability, key drivers, degradation curves, and anomaly detection
 - APM for E&U Industry specialized solution for distribution, transmission, and generation companies. Enables the understanding of asset health and criticality



IBM Maximo Mobile

Connecting workforce for enhanced business efficiencies and decisions



Continuous need for instant data access driven by

Business

Continuously evolving



Massive amounts of data continuously consumed and analyzed



Causing reactionary impacts throughout entire organization

Assets

Increasingly complex, remote and aging



Digitized, automated assets perform multiple tasks and utilize multiple IoT sensors



Aging infrastructure of assets in water, utility and public works

Work force

Broad range of skills and knowledge



Maturing workforce has extensive internal tribal knowledge



Tech savvy workers expect commercial application experiences

Maximo Mobility

Maximo provides a flexible suite of mobile products.

Everyplace



Enables display of traditional Maximo applications in mobile tablets and phones

Workforce Assistant



Extends mobile applications with virtual assistances to streamline work processes

Anywhere



Critical work, asset and inventory connected and disconnected mobile applications

Work Centers



Modernized, rolebased applications featuring IBM Design and agile principles

Workforce Assistance for field technicians



Maximo Augmented Collaboration

Augmented Reality (AR) - enabled interaction between technician and expert



Maximo Assist

Artificial Intelligence (AI) improves problem diagnosis and provides guidance to help technicians



Maximo Worker Insights

Insuring safety of work technicians through applications and monitoring

Augmented Reality (AR) for field technicians

Maximo Augmented Collaboration Remote Expert Assistance

A remotely located expert or a peer can instruct a field technician on how to fix a problem, using a variety of AR-tags (annotations) to communicate via an AR-enabled visual session, integrated with Maximo.





Collaborate with an expert

Guide

Annotate, diagnose and get guidance

Fix & Learn

Fix and Learn while saving sessions for training



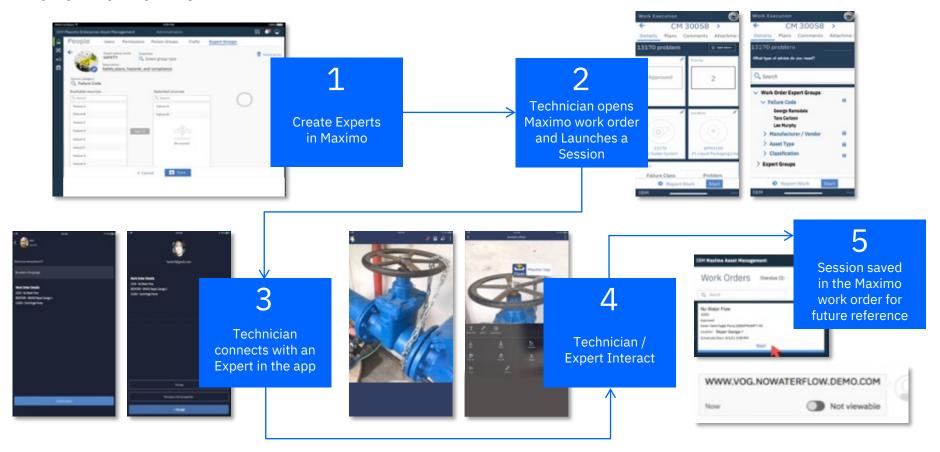






Remote Expert Assistance

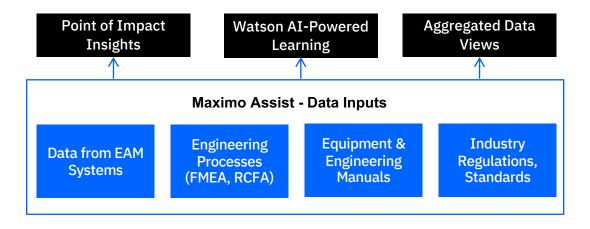
End to End Workflow



Maximo Assist

with Artificial Intelligence(AI) for your field teams

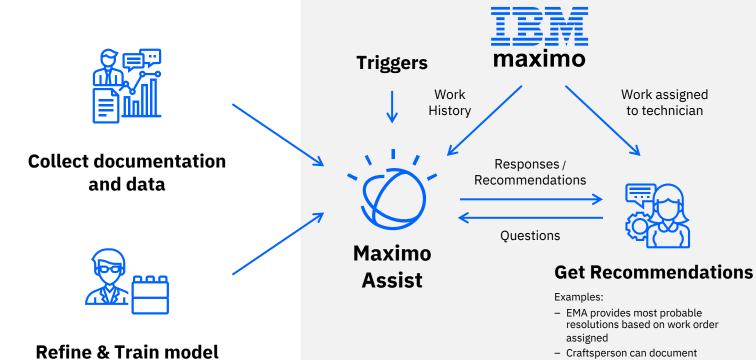
Improve problem diagnosis and provides guidance to help technicians **identify the right action the first time**



Watson learns from trusted sources of information, sharing **expertise to Every Field Technician**



How does Assist work?



Ask questions

Examples:

- How do I check the motor starter overloads on Refiner Pump 1271?
- Cooling Water Pump VFD 57445 is displaying Failure Code FC002
- RTD #3 on Crusher Conveyor Motor #2 is reading 140 degrees C.
 What could be the problem? (Diagnosis)
- How do I change the bearings on High Pressure Compressor #8?

other physical observations to have EMA refresh resolutions

IBM Watson IoT / © 2019 IBM Corporation 35

- Troubleshooting guide

Maximo Worker Insight with integration to Maximo Oil & Gas/HSE

- Combining IoT data from wearables, environmental sensors and other data.
- Real-time insights, putting time and place into context, along with trending and forecasting analyses, and worker information.
- See Hazards and Notifications and trigger Incident processes in Maximo HSE.



Visibility during hazardous conditions



Traceability and notification

Putting compliance at the center of safety, helps to identify and eliminate hazards in the workplace.

Maximo Anywhere

Connected and disconnected apps



Accessible anytime – anyplace (connected and dis-connected mode)



Geo-location and advanced map features thru Spatial technology



Capitalize on device specific features including voice-text, photos, bar codes



Available on Apple and Google play stores



9 applications focusing on Asset, Work and Inventory management

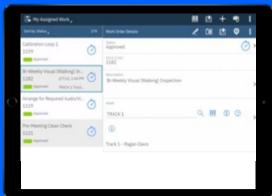


5 Industry Solutions featuring HSE, ACM/Aviation and Nuclear

Work Technician: Sample displays







Maximo Anywhere

Strategic Direction

Simplification | Currency | Growth | Preserve Customer Investment



Address key areas

- Continued updates to Anywhere applications and platform
- Deliver new capabilities and application functionality
- · Improve the end user experience



Evolving mobile technology and platform

- Simplifying the deployment and reducing infrastructure requirements
- Single shell application distribution
- Foundation for off-line work centers
- · Expansion to Windows Store



Plans for initial release of additive capabilities and technology in 2020+



Maximo Anywhere 7.6.x Strategic Direction

Simplification



Architecture

- Ease of install
- Ease of build
- Ease of deployment



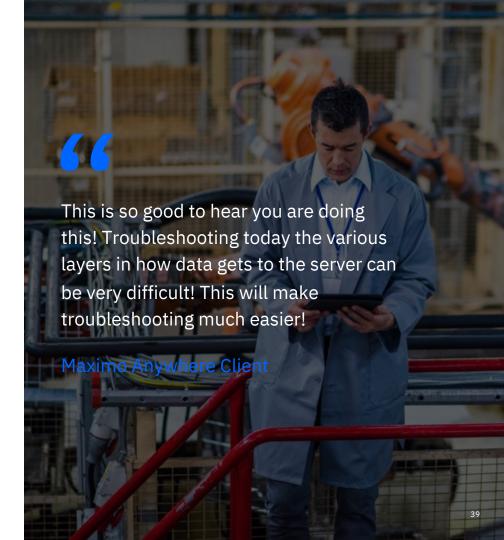
Serviceability

- Direct access to device
- Single support team



Ease of use

- Single Maximo authentication
- Single Administration application



Maximo Anywhere 7.6.x Strategic Direction

Retain Client Investment



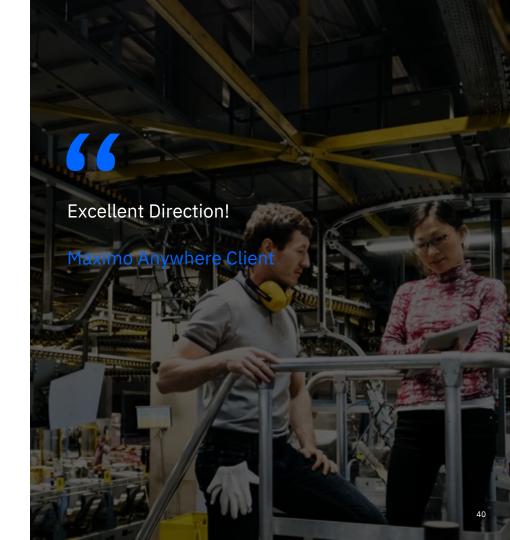
Seamless Upgrade

- Delivered applications and features
- Client Configurations
- Client Customizations



End Users

- No Visible Differences
- No additional training



Maximo Anywhere 7.6.x Strategic Direction

Growth



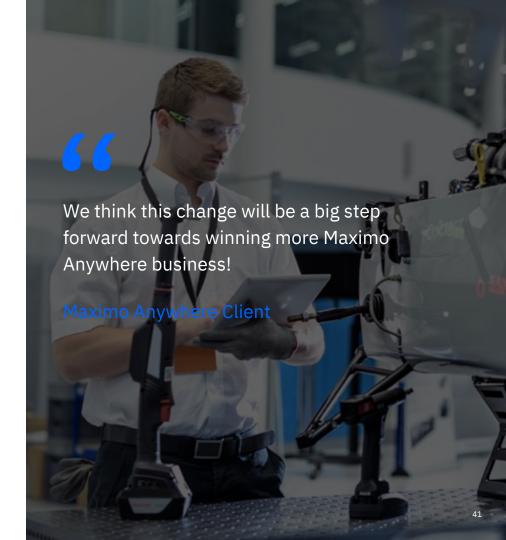
Platform Support

- Maximo platform consistency
- WebSphere 9
- Sql Server



Maximize Value-Add

- Ease of creating new apps via removal of MF license restrictions
- Ease of scaling via reduce middleware administration, maintenance



What's Next....

Maximo for Anywhere & Work Centers

- Configuration
- Personalization
- Offline Capabilities

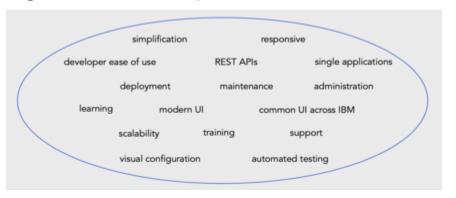
On-going Improvements Modernizing Maximo

Continued focus areas

- Improving the end user experience
- Delivering new capabilities and application functionality
- Workflow enablement

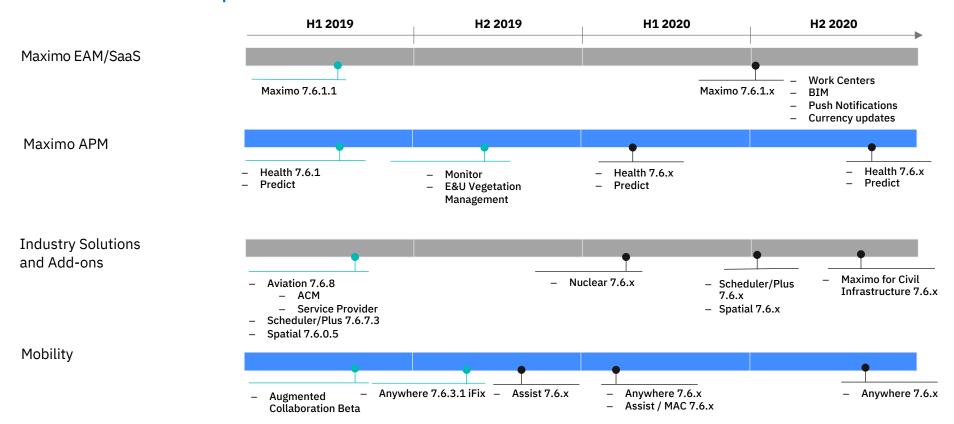
Technical progression

- Ability to configure work centers with a visual configuration tool
- End-user personalization areas built into the work center
- Convergence with Anywhere for offline capabilities
- Fully upgradeable
- Alignment with other IBM products



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Maximo Roadmap



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Maximo Next - 7.6.1.x Planned 3Q2020

Currency Updates

- SqlServer 2017, Oracle 19c, Windows Server 2019, RHEL 8, JDK 11, Ubuntu 18.04 LTS, Firefox 68 LTS, Safari 12, AIX 7.2, DB2 11.1.4.4, WebSphere 9.0.5 (DB2 & WebSphere not bundled in the install, certified only)
- Java 2 Security support

Push Notifications

- Used by Augmented Collaboration and Anywhere.
- Available for core by configuring the User Notification application.
- Support is provided for the following: services:
 - IBM Push Notification Service
 - Google Firebase Cloud Messaging
 - Apple Push Notification Service

BIM Enhancements

- Support for latest FORGE viewer
- Support navigation between Map and BIM view
- Updated Documentation

General enhancements for all Work Centers:

- You can use automation scripts to work with Maximo business objects, attributes, conditions, and actions.
- Work Center users can manage cookie preferences with the Cookies option in the User menu.
- Usability enhancements also include performance improvements for mobile devices, such as tablets and cell phones.
- Enhanced product tour gives the ability to stop or start the tour at any time.

Inventory:

- Reconcile inventory balances after a count of physical inventory and associate inventory with the storeroom GL accounts if item is not already linked to a control and shrinkage GL account.
- Reduce manual data entry by scanning bar codes.
- More places to scan a bar code to locate a record when reviewing an item list, storeroom balances, storeroom physical counts, counts to reconcile, and reservations.
- New items are auto-numbered but editable, and seeds and prefixes are configurable.

Work Supervision/Work Execution:

- · Add crews to work order assignments.
- View multiple assets and locations that are associated with work orders.
- Ability to report downtime and up time for one or more assets using a toggle switch.
- Technicians can add or update scheduled start, scheduled finish, work type, and priority information on a WO.
- Supervisors and technicians now see an Inspections tab only if inspections are associated with a work order.
- When technicians report work, the work order number is now displayed on the Report My Work page.
- Update meter readings for multiple assets
- Additional signature options for Work Execution and Work Supervision Work Centers

Service request configuration for guest users

3 Take Away's...

- Continued Investment in Maximo
- Expanding beyond EAM
- ❖ Modernization & Innovation



IBM IoT Exchange 2020

March 17-19, 2020 Hilton Orlando



After successful events in the US, Europe and Australia, the IBM IoT Exchange will hit the road again in 2020 with the latest AI and IoT innovations.

Experience the event that brings IBM, Watson IoT™ clients, and Business Partners together to solve some of IoT's most critical challenges. It will start in Orlando, FL on March 17-19, 2020 at the Hilton Orlando Resort and Orange County Convention Center.

Stay tuned for global cites and dates coming soon.

In the meantime, you can get started here. Sign up for exclusive access to early registration, early bird pricing and call for speakers.

Sign up for exclusive access







August 4 - 6, 2020 • Walt Disney World Swan and Dolphin • Orlando, Florida



Maximo Asset Management 7.6.x Feature Packs

7.6.0.1 – Inventory Reports / minimize downtime when you upgrade (updatedblite) reprocessor and updatedblite)

7.6.0.2 –reconcile purchase order and invoice costs, Federated MBO

7.6.0.3 – SAML Support, Asset Depreciation Schedules

7.6.0.4 – JSON Mapping, Remove Direct Printing Applet

7.6.0.5 – Work Center Introduction (Supervisor, Technician, Business Analyst), Object Structure Authorization

7.6.0.6 – SR Work Center, BA Data Set Designer, BIM Applications, License usage Monitor, Workflow Applet Removal

7.6.0.7 – reset passwords without restarting the server.

7.6.0.8 –Time Zone app, Budget Monitoring app, WC Authorization, WC Landing Page, Inspections

7.6.0.9 – Work Center Enhancement

7.6.1 - Inspection Form WC, Cognos 11, New Skin, WAS Liberty Support, Token Licensing

7.6.1.1 – API Keys, Sync Message Tracking, WC Configuration (queries), Dynamic JP, Inventory / Admin WC

Maximo EAM with OpenShift

Documentation

- How to deploy and run IBM®Maximo®Asset Management on Red Hat®OpenShift®.
 - https://supportcontent.ibm.com/support/pages/node/536449
- OpenShift is the RedHat enterprise product for Kubernetes container platform.
- The minimum version of Maximo required to using OpenShift containers is Maximo 7.6.1.1
 with the current Interim Fix pack.
- Only runs on RedHat Linux, but the administrative workstation to create the docker images can be Microsoft Windows server.

Maximo Anywhere architected for future growth

Next-generation mobile platform utilizes REST APIs - setting it apart from the competition

1. REST APIs are stateless.

Their fault tolerant features prevent a user from losing their connection or unsaved data in cases of server crashes.

2. REST APIs are efficient.

They directly communicate to the Maximo Server and do not utilize a RMI layer. Bypassing RMI improves resource utilization and minimizes network traffic.

3. REST APIs are built for growth.

The REST API architecture is built solidly on a foundation supporting containers – enabling continued technology growth.



Back up – APM



IBM Maximo Asset Monitor

Monitoring at Enterprise-Scale



Solution

- Consolidated global view of operational data
- Data visibility and analysis
- AI-based anomalies
- Enterprise scale monitoring



Capabilities

- Configurable dashboards & drill down
- Enterprise wide view of operations
- Rapid data integration
- Hierarchical data filtering and management



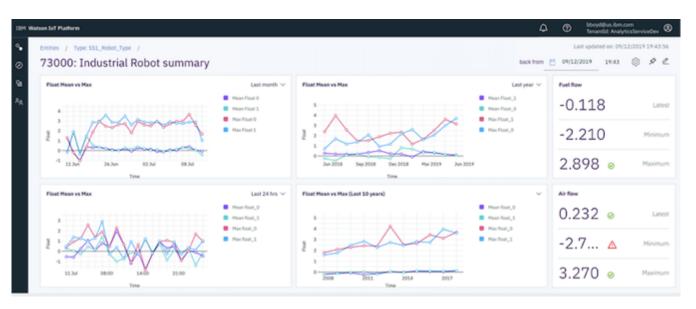
Benefits

- Enterprise level data aggregation & visibility
- Scale operations across processes and sites
- AI-based detection of issues
- Enable drill down analysis for resolution team
- Extensible IoT foundation



Monitor provides a customizable dashboard for your operations and systems

Pre-built widgets, analytics, and visualizations







IBM Maximo APM – Health

IBM Maximo APM - Asset Health Insights



Solution

- Consolidated global view of assets
- Health Visibility and Analysis
- Condition based actions
- Replacement Planning



Capabilities

- Dashboard with cards, map view, spreadsheet view
- Fleet-wide view and health drilldown
- Health based notifications and actions
- Flexible health scoring by asset type or groups
- Sensor data integration
- Job plan efficacy analysis
- Refurbish / replace prioritization



Benefits

- Reduce fleetwide operational risk by focusing on the right assets
- Increase asset availability
- Reduce unnecessary preventive maintenance
- Reduce time to make capital replacement planning decisions

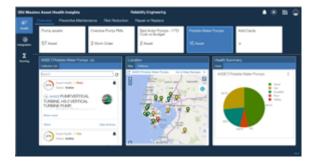


IBM Maximo Asset Performance Management

Maximo APM – Health How it Works

1

Find which assets require attention



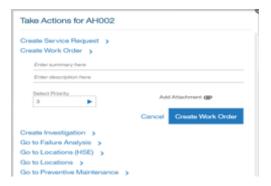
Investigate problems with your assets





3
Take action or plan
for replacement





IBM Maximo APM – Predict

IBM Maximo APM - Predictive Maintenance Insights



Solution

- Build asset failure models
- Predict failures
- Determine factors that contribute to failure
- Score models with current sensor data



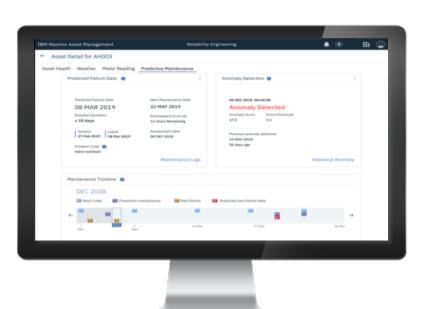
Capabilities

- Templates provided to build 5 common predictive models
- Score predictive models using Watson ML
- View pre-built visualizations for the 5 common models
- Use model scores to asses asset health with Maximo Monitor



Benefits

- Reduced failures
- Reduced maintenance costs
- Improved asset utilization
- Extended life of asset
- Increased production output



Maximo APM – Predict How it Works

Define asset groups for modeling

Develop and train models

5 templates included with PMI

- 1. Failure Probability Prediction
- 2. Failure Contribution Breakdown
- 3. Predicted Failure Date
- 4. Anomaly Detection
- 5. Failure Probability Curve
- 3 Register the model
 - Schedule/score the model
 - View results of models on "card" in dashboard

