IBM IoT Exchange 2019

Unlock new value from data with AI

Maximo Product Roadmap

- UK/Ireland User Group meeting
- May 22, 2019

Dave Gasdia Program Director IBM Maximo EAM Offering Management



Maximo



TRIRIGA



Engineering



IoT Platform

Please note

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion.

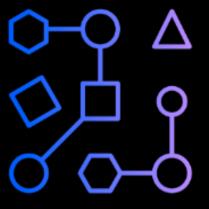
Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision.

The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract.

The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

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

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

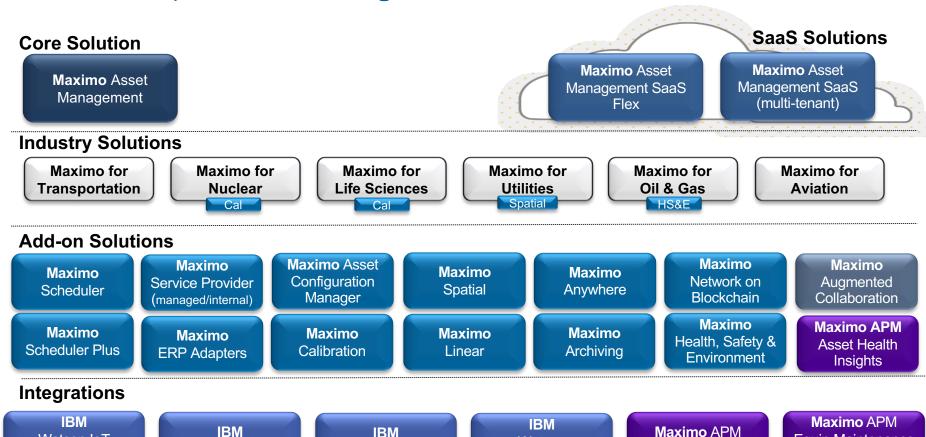


Maximo
Enterprise
Asset
Management

Our expanded portfolio of industry-leading Maximo solutions

IBM Maximo Solutions	Enterprise Asset Management Keep critical assets operating at maximum efficiency.	Asset Performance Management Improve equipment performance with analytics and AI.	Production Optimization Unlock factory equipment data to maximize operations.	Production Quality Insights Identify quality defects sooner, and respond in real time.	Worker Insights Avoid devastating workplace accidents with IoT and analytics.	MRO Inventory Optimization Reduce costs and minimize asset downtime.
Core Components	 Core Enterprise Asset Management (EAM) EAM Industry Solutions EAM Scheduler EAM Anywhere EAM Health, Safety, Environment (HSE) EAM Spatial EAM Blockchain EAM Calibration EAM ERP Adapters 	 Asset Health Insights Predictive Maintenance Insights Equipment Maintenance Assistant APM for Energy and Utilities 	 Production Optimization Process Optimization 	 Visual Insights Acoustic Insights Prescriptive Quality 	- IoT Worker Insights	- Spare Parts Inventory Optimization
Foundations	Watson IoT Platform	Connect, Collect, Analyze, Optimize, Govern and Deliver		red insights from AI and analytic els and algorithms	Trust and tracking within a shared Blockchain ledger	
	IBM Services	Industry, domain and IoT expertise		Industry solutions with pre-integrated AI / Machine Learning capabilities		

Maximo Enterprise Asset Management Portfolio 2019



Cognos Analytics

Watson

Conversation

Equip Maintenance

Assistant

Predictive Insights

5

Watson IoT

Platform

Weather

Maximo EAM Investments and Innovation Building on the foundation of new technology for on-prem and SaaS

















Maximo 7.6.1 - Continuing to deliver on the value of EAM



Accumulation of 7.6.0 Feature Packs and Personal Data Protection app.



Modernizing the Maximo User Experience with innovative Work Centers and a new skin.

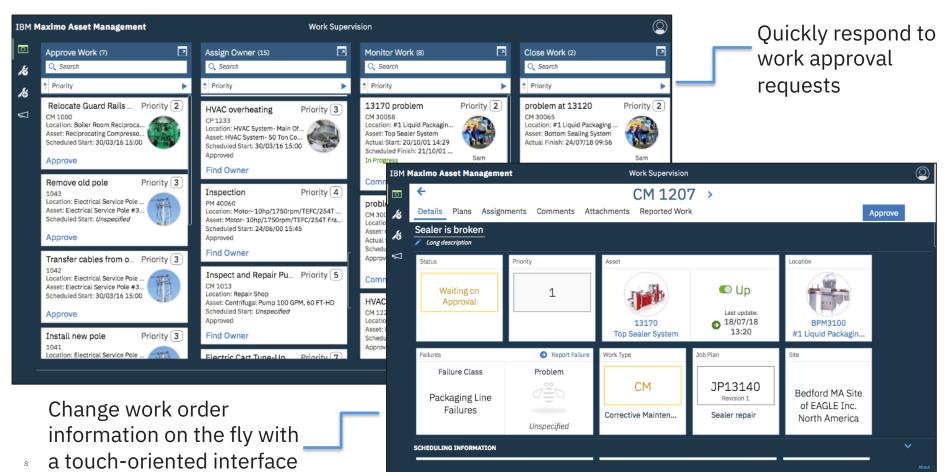


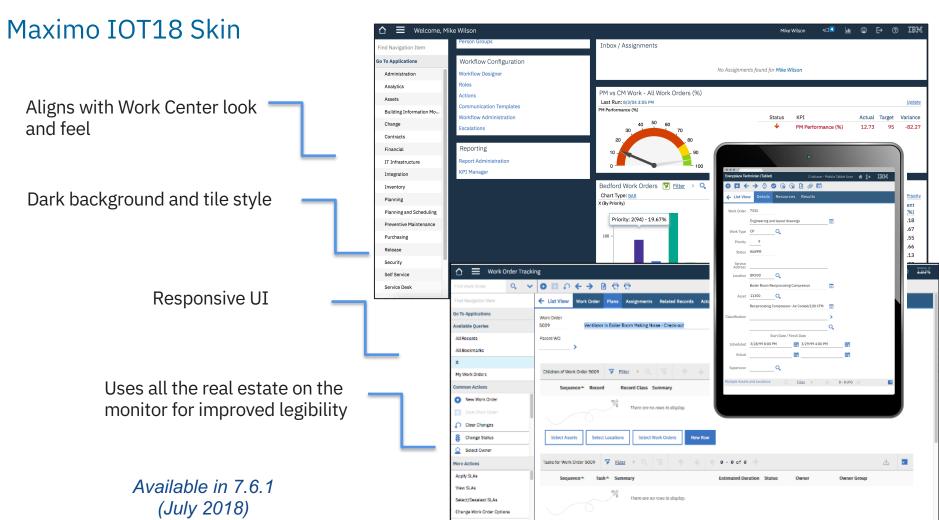
Cognos 11.0.11 Entitlement and SAP adapter support for S/4 HANA onpremise



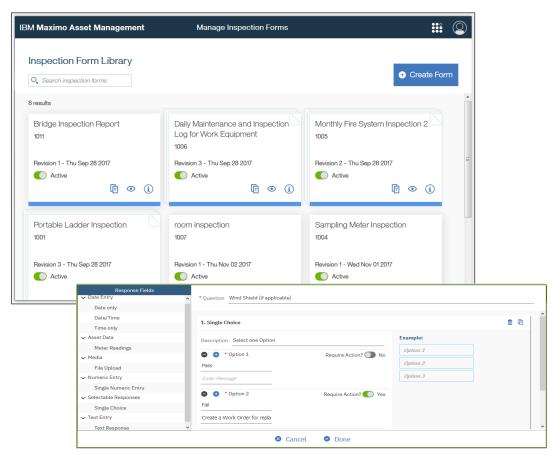
Supporting Program updates and technical improvements - Java 8, WAS 9 / WAS Liberty / DB2 11.1 (AWSE)/ MMI/Docker Containers

Maximo Work Center Examples





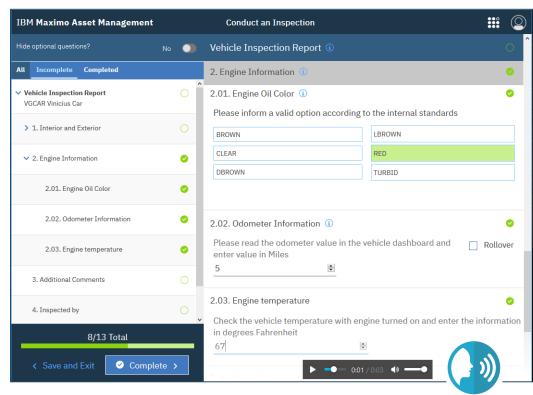
Inspections – Manage Forms



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.

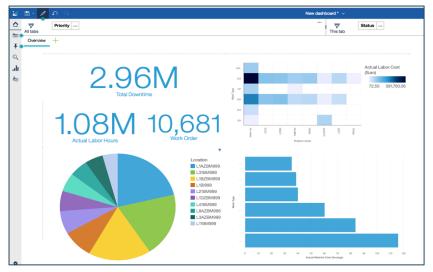
Inspections – Conduct an Inspection

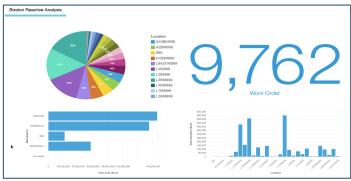


Leverages Watson services to conduct a hands free inspection by just using voice responses.

- 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.

Cognos 11 Analytics





- 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.
- Sign up for a free trial of Cognos
 Analytics today https://ibm.co/2zFQU2U
- Demo Videos: Google Maximo 761 Cognos Analytics

What's new in Maximo 7.6.1.x

Coming 2Q 2019

Work Centers

- Supply Chain
 - Item Master
 - · Storeroom balances
 - Reservations
 - Physical Count
- Supervisor/Technician
 - Configuration
 - Tools & Services
 - Quick Reporting
 - Map support
 - Barcodes/QR Codes
- Inspections
 - Cascade Q&A
 - Color/icon indicators
- Administration
 - SR Classification config., REST Configuration for API keys
- Service Requests
 - SR Classification config., REST Configuration for API keys

Improving the user experience

Dynamic Job Plans

- Automatically create resource requirements using
 - 4 new methods
 - Static
 - Proportional
 - Level
 - Attribute

Offering new options for managing complex work

Value-add Items

- Scripting Editor plugin for developing Automation Scripts
- Everyplace CSS updates
- .xlxs download default
- View Health scores from APM in WOAsset/Location

Provides an improved experience for users

Flexible Licensing

- Introduce Token Model for Maximo portfolio
 - Support Express/Limited
 - Industry Solution Add-ons
 - Self Service
- Continue to expand and improve License Tracking

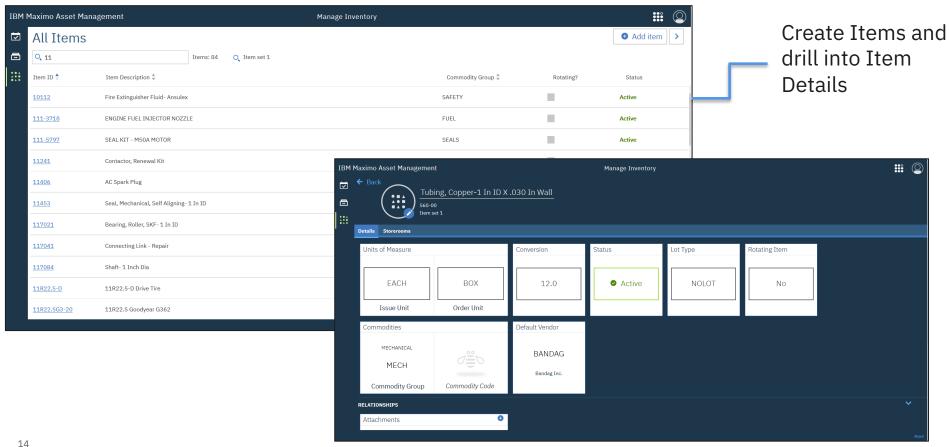
Currency Updates

- Oracle 18c
- DB2 11.1.4.4
- WAS 9.0.0.10
- WebLogic 12.2.1.3

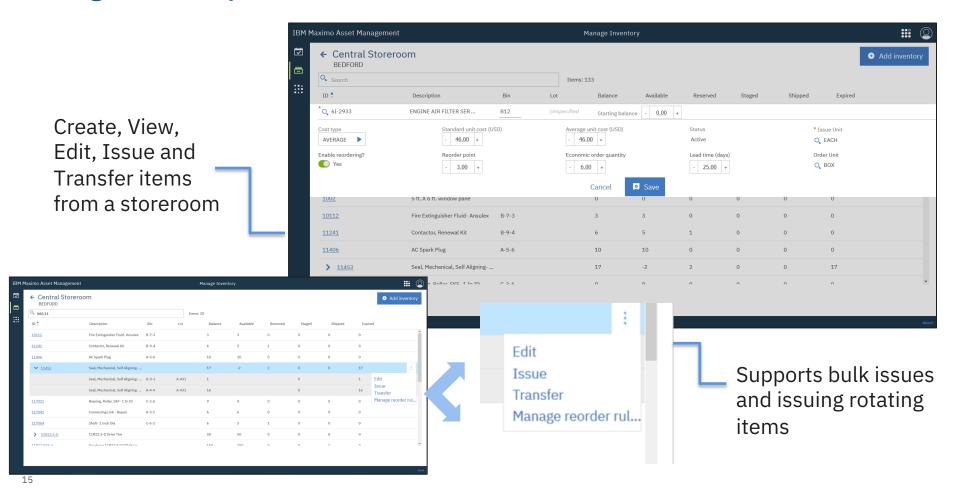
New options for procuring and monitoring licenses

Continuing to deliver on the latest middleware

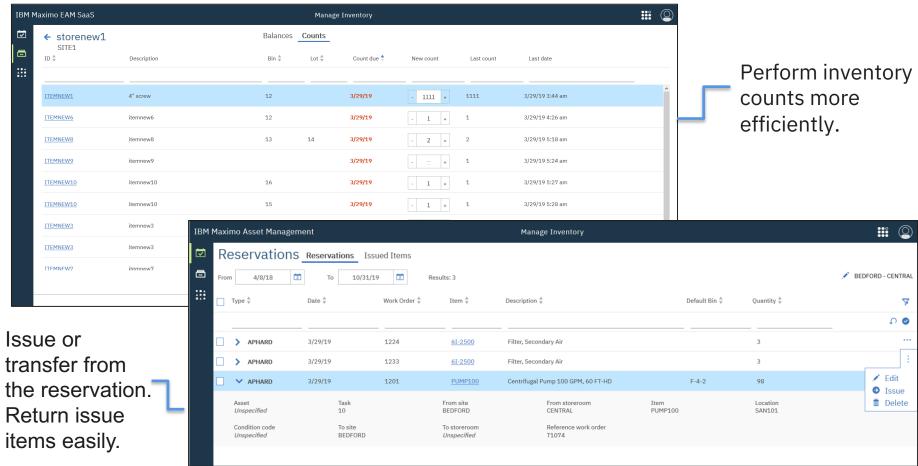
New Work Center - Manage Inventory supports Supply Chain processes



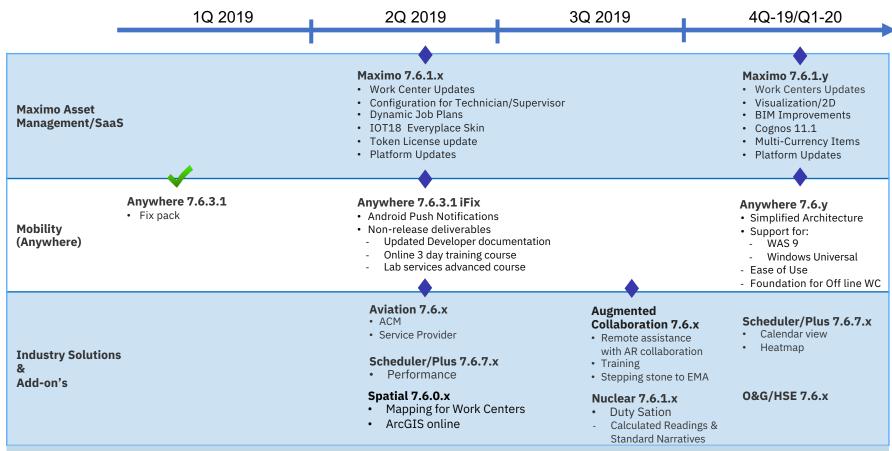
Manage Inventory – Issue and Transfer Items from Storeroom



Manage Inventory - Perform Physical Counts and Manage Reservations



Maximo Enterprise Asset Management 2019 Roadmap



Notice: IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

IBM IoT Worker Insights Integration to Maximo O&G/HSE



- Visibility during hazardous conditions
- Traceability and notification

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

22 / 970

- 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.



GitHub link - Adapter for Maximo O&G/HSE

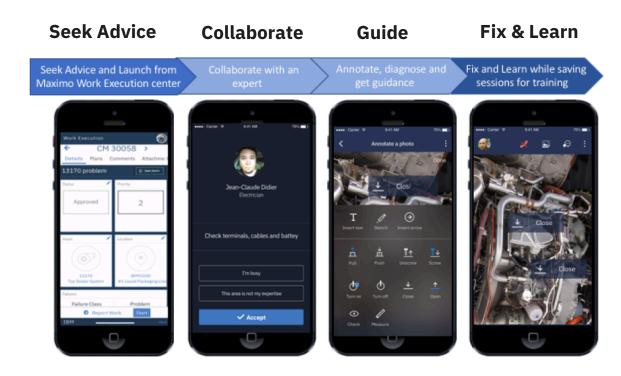
Augmented Reality enabled communication between a technician and an expert.

- Provides training and operational guidance on premodeled 3D objects.
- Technician can send a scene model and images to an expert for additional guidance.
- Supports a variety of use cases promoting better asset maintenance practices.
- Complimentary and steppingstone to Equipment Maintenance Assistant (EMA)

Coming 2H 2019

Maximo Augmented Collaboration

Provide the Technician with more tools in their tool box to help them do their job.



IBM Maximo Asset Performance Management

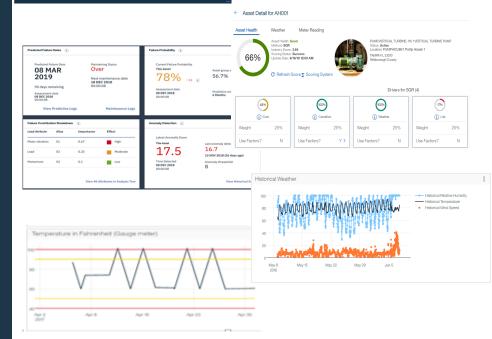
IBM Maximo APM

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

- Asset Health Insights Provides asset health assessments using asset records, sensor data, and other external data to inform maintenance and replacement decisions
- Predictive Maintenance Insights Predicts asset health using statistical models and machine learning. Includes failure date/probability, key drivers, degradation curves, and anomaly detection
- Equipment Maintenance Assistant Delivers prescriptive repair guidance to technicians/reliability engineers
- Asset Strategy Optimizes asset maintenance and replacement strategies based on asset risk and criticality







IBM Maximo MRO Inventory Optimization

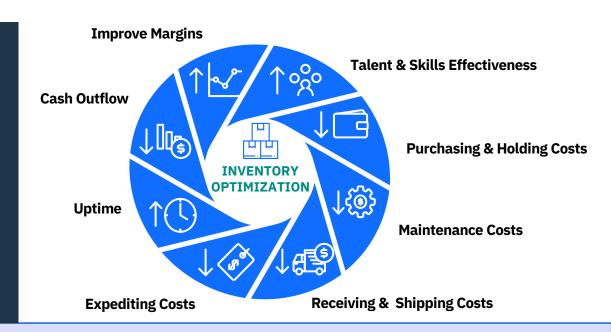


Addressing key operational challenges



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



3 Take Away's...

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



Thank you

David Gasdia Program Manager, Maximo drgasdia@us.ibm.com





Work Center Roadmap			2019		
	Configuration	—	Configuration details (work mgmt) – Card content - labels, fields, queries	Configuration enhancements	
	Inspections		Cascade Q&A, Color/Icon indicators	Multi-selection response , *Offline support	
X	Service Requests	· —	Effected User, Asset/Location QR/Barcode support, Guest users	'follow' SRs, Location/Assets using maps	
	Administration		SR Classification config., REST Configuration for API keys	Additional enhancements	
	Supply Chain		Add inventory, issues and transfers, manage reservations, physical counts	Reconciliation, Barcode/QR Scanning, Picking and staging	
	Technician and Work Supervision		Barcode/QR Scanning, ESRI WO Mapping, Tools & Services as Plans/Actuals, Task WO's, Bulk SR mgmt	Assigning work to crews, Multi assets/locations, Extended Mapping	

Notice: IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Maximo Anywhere Strategic Direction

Simplify

Preserve Investment

Grow Platform



Anywhere is a Critical component of the Maximo portfolio and strategic direction

Address key areas

- ✓ Continued updates to Anywhere applications and platform
- ✓ Support the increasing demand for off-line Maximo Work Centers (e.g. Inspections)
- ✓ Deliver new capabilities and application functionality
- ✓ Improve the end user experience

Evolving mobile technology and platform

- ✓ Simplify Remove dependency on MobileFirst
- ✓ Extended architecture to support current Anywhere application
- ✓ Off-line Work Centers will be supported with Anywhere
- ✓ Deliver Anywhere UI Configuration features

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