



MAS Upgrade Considerations

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Starting Your Journey to MAS



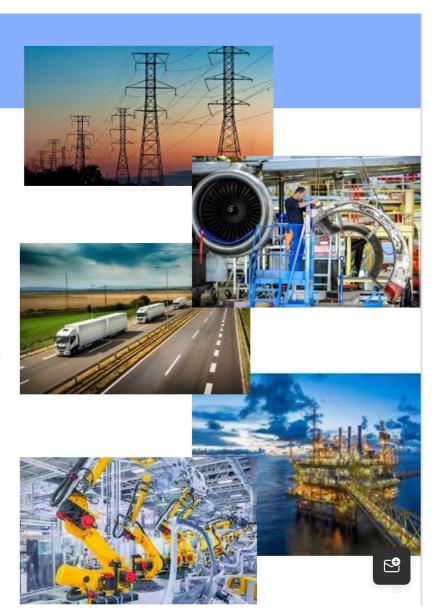
- The future of Maximo 7
- Preparation is the key to a successful upgrade
- New functionality & capabilities
- The Licensing model has changed significantly
- The technology and necessary skills have changed dramatically
- Where to turn for assistance

MAS Capabilities



Why Upgrade Now?

- 1. Maximo Manage (Core EAM) Improvements Reduce Costs
 - AI-infused technologies
 - · User interface, dashboards, scheduling
 - Mobile
 - Reliability Strategies
- 2. Health scoring for critical assets
 - Foundation for condition-based maintenance
 - Reduce asset failures
- 3. Asset Performance Management & Computer Vision Inspections
 - Optimize asset lifecycle & maintenance strategies
 - Reduce inspection costs, while improving the frequency & accuracy
- 4. Access to partner technologies ecosystem that drives time to value.
- 5. New MAS SaaS offerings provide entry level pricing for core maintenance that scales with your business.



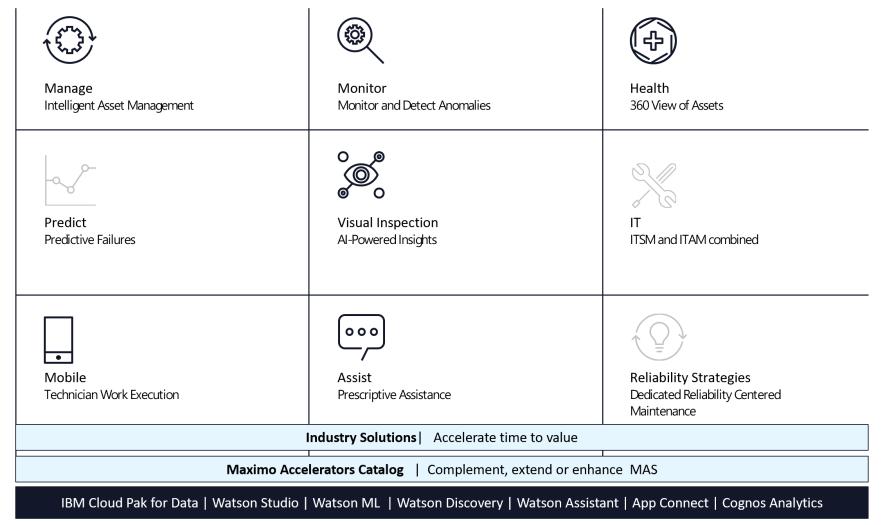
MAS Applications & Technologies



Maximo Application Suite

Best-of-class capabilities to provide complete view of your assets addressing the needs of key personas in your organization.

- **Technicians**
- **Technician Supervisor**
- **Asset Maintenance Manager**
- Plant Manager
- Fleet Manager
- **Operations Manager**
- Reliability Engineer
- **Quality Manager**
- Planners / Schedulers
- Dispatchers
- **Purchasing Managers**





Infrastructure Independent **Common Operating Environment**

Private

Edge















Why Upgrade Now?



Maximo Version	Upgradable to MAS	Date of Last iFix for Release	EOM- End of Market Date*	EOS – End of Support Date**	
Maximo 7.6.1	Not available	October 17, 2021		September 30,	
Maximo 7.6.1.1	Not available	December 11, 2022	April		
Maximo 7.6.1.2	Yes December 2023 - TBD 30,		2025		
Maximo 7.6.1.3	Yes	July 2025 - TBD			

^{*}End of Market means no longer able to purchase licensing of these products

**End of Support means product fixes and support no longer available from IBM

IBM Extended Support: Enables clients continued access to IBM Support for "how to" questions, usage issues, known defects published in IBM Fix Central, and new critical sev1 defects (no security fixes) after IBM standard support ends for 7.6.1.x.

IBM Sustained Support: Enables clients to continue to get support for "how to" questions, usage issues, and known defects published in IBM Fix Central after IBM standard/extended support ends for 7.6.1.x. IBM Sustained Support does not include support for new defects or new security fixes.

Maximo 7.6.1.x Product Life Cycle



DATE

	— DESCRIPTION		
Announce End of Market (EOM & EOS)			
End of Marketing (EOM)	EOM and New Support Parts are available for purchase	April 19, 2024	
End of Support (EOS)	Update Support Plans and Lifecycle page	Sept 30, 2025	
R 7.6.1 GA July 2018	/\nnounced /\nvil 202/ \nable	ed Support Sustained Support Option Option	
	April 2022	ot 2026 Option Sept 2030	

DESCRIPTION

*IBM Extended Support: Enables clients continued access to IBM Support for "how to" questions, usage issues, known defects published in IBM Fix Central, and new critical sev1 defects (no proactive security fixes) after IBM standard support ends for 7.6.1.x.

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Maximo 7.6.1.x product Life Cycle

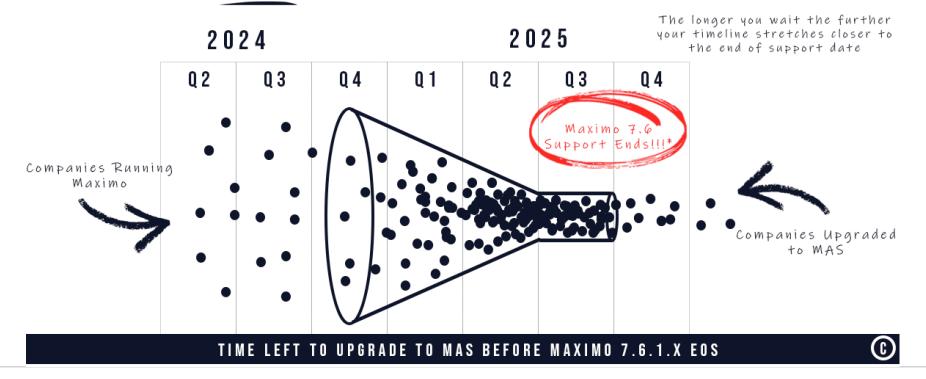


Time is Running Short!



- 18 months left of Standard Support
- Approx. 2500 NA Maximo Clients
- Limited Red Hat Open Shift Container Platform Skill Set/Professionals
- Only a small number of consulting firms have the needed skills and experience- If you're not upgrading yourself, find an IBM Business Partner NOW!

ARE YOU READY TO UPGRADE TO MAS?



Upgrade Readiness



- Perform a MAS Upgrade Readiness Assessment
- What version are you currently on?
 - Cannot upgrade from MX 7.6.0.x , 7.6.1, or 7.6.1.1. Upgrade from either 7.6.1.2 or 7.6.1.3
 - Are you running FedRAMP Authorized version of 7.6??
- Which MAS apps will you implement?
 - Manage? Health? Monitor? Predict?
 - Do you need to replace legacy work centers?
 - Consider your mobility strategy in light of Maximo Mobile and other 3rd party mobility solutions
- What license types will you need?
 - Limited? Base? Premium?
 - Concurrent versus Authorized/reserved
- How many AppPoints are required?
 - Review existing user permissions and access
 - Utilize AppPoint tooling in legacy Maximo to estimate MAS AppPoint requirements



Upgrade Readiness



- Where to deploy?
 - On-prem?
 - Do you have necessary Red Hat skills?
 - Review hardware sizing and adjust for increased resource requirements
 - Time to move to the Cloud?
 - Which Cloud?
 - Security considerations if moving to the Cloud
 - Backup, availability, Disaster Recovery offerings
- Review Integrations
 - MAS uses API keys for web-based interactions-may require changes in integration(s) authentication and construction methods
 - JMS queues replaced by Kafka
- Customizations
 - Review and determine if need to be modified or replaced with new function or automation scripts



Upgrade Readiness



- Is this the time to review your data and archive?
- Do you have all the right stakeholders in the room?
- Have you verified all your 3rd party solutions are MAS compatible?
- Have you scoped out the upgrade Level of Effort (LoE)?
- Do you have a plan for user acceptance and training?
- Testing scope & effort?
- Do you need a sandbox environment for users, others?
- Do. You have a Post Go Live Support plan?

Have a clear, defined upgrade project plan!



Technology Shifts



Legacy Maximo















MAS

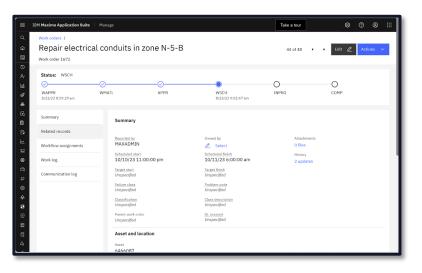






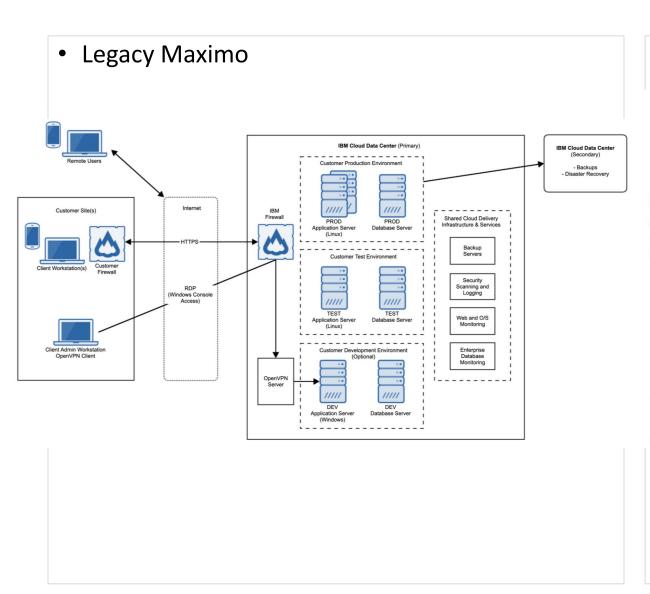




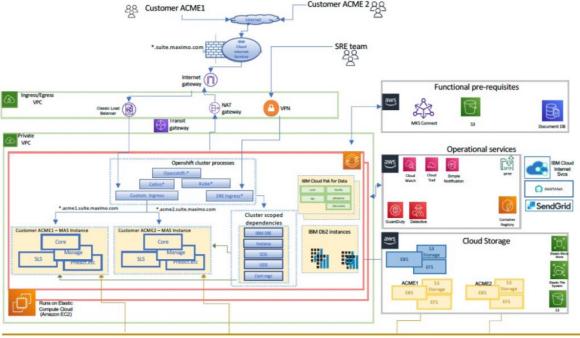


MAS Infrastructure





• Maximo Application Suite



MAS Licensing Model



The Licensing Model for MAS has completely changed

- Your existing licenses convert to a pool of AppPoints
- AppPoints can be Authorized or Concurrent User Licenses
- Real-Time License Usage is now tracked and enforced
 - What do you need? How do you tell?
- Run MAS License Utilities
- Authorized vs. Concurrent Users
- All new Functionality requires AppPoints



MAS Application License Model

- 4 User types
- Authorized & Concurrent
- Install based

Self Service User

Free 0 AppPoints

Self Service Applications

- Service Requests
- **Desktop Requisitions**
- Requests (Oil & Gas)
- Create/Review Incidents (HSE)
- Vehicle Requests (Transportation)
- Graphical Appt Book (Scheduler)
- · Bill review (Service Provider)

Limited User

AppPoints

Concurrent Authorized **AppPoints**

3 Modules:

- Manage
- · Manage Industry Solutions
- Manage Add-ons

Mobile

- Maximo Mobile
- Assist
- 3rd Partv

Monitor

Base User

Concurrent Authorized **AppPoints**

AppPoints

Manage

Includes:

- Linear
- Calibration
- Spatial (requires install)
- Scheduler

Health

Premium User

Concurrent **AppPoints**

Authorized **AppPoints**

Manage

Industry Solutions

· Oil & Gas. Aviation. Transportation, Utilities, Nuclear, Civil Infrastructure

Add-ons

· Asset Configuration Manager, Service Provider, Health, Safety & Environment

Predict

Health and Predict - Utilities Visual Inspection

Install – 1 AppPoint (x multiplier) **Production Only**

SAP/Oracle/Workday Connector (x80)

Spatial (x20)

Civil Infrastructure (x50)

Visual Inspection (x45) Edge (1)

Assist (x150) **Health & Predict** Utilities (x60)

Optimizer / **Optimizer Limited** (x220) / (x60)

FedRAMP



- MAS 8.11 is now FISMA compliant
 - Allows for 3rd party hosting path forward
- MAS SaaS FedRAMP 1H2025
 - On AWS Gov Cloud
 - Support for MAS Manage only on initial launch



- End of Market (EOM) planned announce in April 2024, effective July 2024
- End of Support (EOS) moved to 2027, giving time for existing customers to move to the future MAS FedRAMP offering
- IBM Development to support 7.6.x for Maximo SaaS FedRAMP through 2027

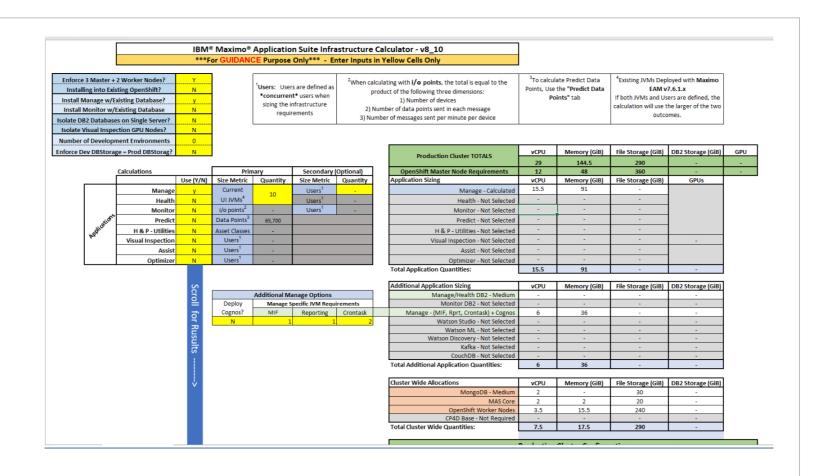




Upgrade Tooling

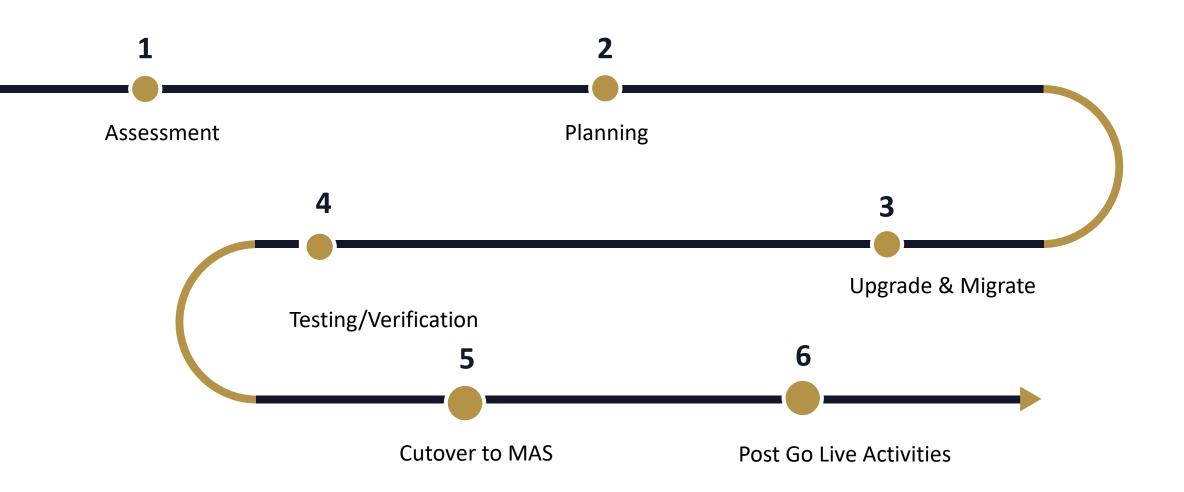


- MAS Infrastructure Sizing
- Customization Tool
- Integrity Checker
- AppPoint calculator utility
- AppPoint 'Magic' scripts



MAS Upgrade Overview





Useful Links



- Product Lifecycle for Maximo 7.6.1.x
- End of Interim Fixes Maximo 7.6.1.2
- End of Support for Maximo 7.6.1.x
- IBM Subscription & Support Overview
- Upgrading from Maximo Asset Management to Maximo Application Suite
- IBM Community for Asset & Facilities Management
- Maximo Application Suite product Documentation
- MAS Installation, Upgrade, and Deployment
- MAS and Red Hat OpenShift
- New IBM Support Offerings
- IBM Licensing Terms



Thank You



Backup

Key RedHat Concepts & Terms

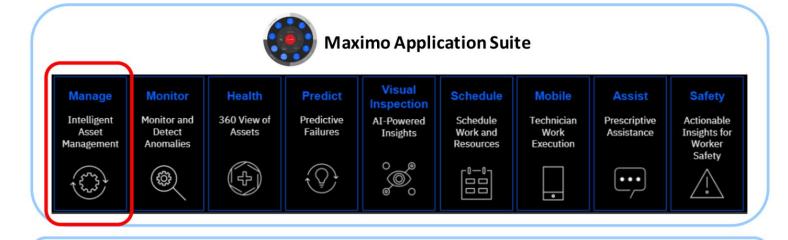


- Node
 - A node is a bare-metal or virtual server in a Kubernetes cluster
 - Worker nodes host the application containers (grouped in Pods)
 - Control plane node runs the services required to manage the Kubernetes cluster
- Single Node OpenShift (SNO)
 - A single-node cluster with no high availability and limited resources/user size
 - For MAS, SNO is only for Maximo Manage application
- Pod
 - A pod is a collection of one or more application containers with shared storage and networking resources
- Deployment
 - A collection of pods that make up individual application workloads for user consumption
- Cluster
 - A cluster is a collection of nodes/hosts associated with a specific deployment
 - At minimu, clusters have 2 worker nodes and 3 control plane nodes
- Project
 - Delineation of content within OpenShift Container Platform

RedHat Architecture







Cloud Paks







Foundation











Infrastructure















RedHat Architecture



OpenShift Architecture Diagram **Application Lifecycle** Red Hat OpenShift Management Kubernetes Orchestration Red Hat Enterprise Linux/Linux CoreOS(v4)/Centos **Operating System** Infrastructure Bare Metal/VMs/Cloud Provider

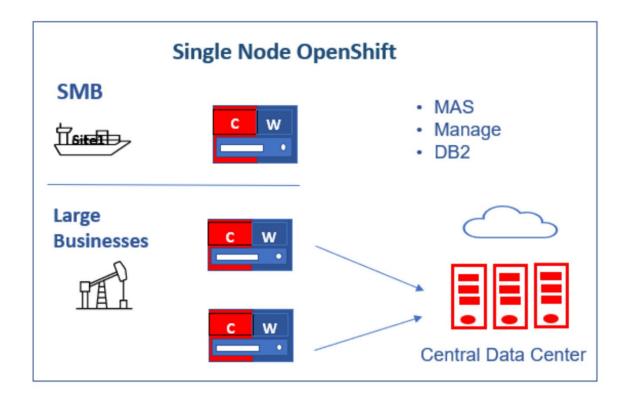
Single Noden OpenShift (SNO)



Single Node OpenShift (SNO) is a configuration of a standard OpenShift cluster that consists of a <u>single</u> control plane <u>node</u> that is configured to run workloads on it.

This configuration offers both control and worker node functionality, allowing users to deploy a smaller OpenShift footprint and have minimal to no dependence on a centralized management cluster.

No high-availability and only supports **Manage** at the moment.



IBM MAS Deployment Options

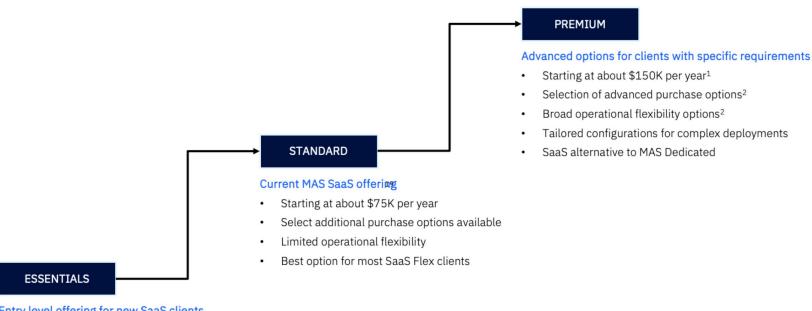


Deployment	Availability	Procure	Provision & Operate	Client Benefits
On Premise Customer Managed	Now	Client purchases MAS from IBM Client provides infrastructure	Client provisions, manages, and operates full stack	Maximum operational flexibility
Hyperscalers Customer Managed	Now AWS 1Q22 Azure 2Q22 Now AWS 3Q22 Azure 4Q22	Client purchases software from IBM and infrastructure from Hyperscalers Paid (Marketplace listing) Client purchases software and infrastructure from Hyperscalers	Client runs IBM-provided automation scripts to deploy MAS on Hyperscalers' cloud Client manages and operates both software and infrastructure	 Simplifies procurement and deployment Allows client to select their Hyperscalers Flexibility for clients to manage and operate their environment
SaaS IBM Managed	Now AWS 3Q22	Client purchase single part (includes software, infrastructure, and operations) from either IBM or AWS Marketplace	IBM provisions, manages, and operates Client's MAS environment on AWS Cloud using IBM's AWS cloud account	 Reduced time-to-value Reduced operational costs Allows clients to focus on business priorities

IBM MAS SaaS Options



New MAS SaaS Tiers

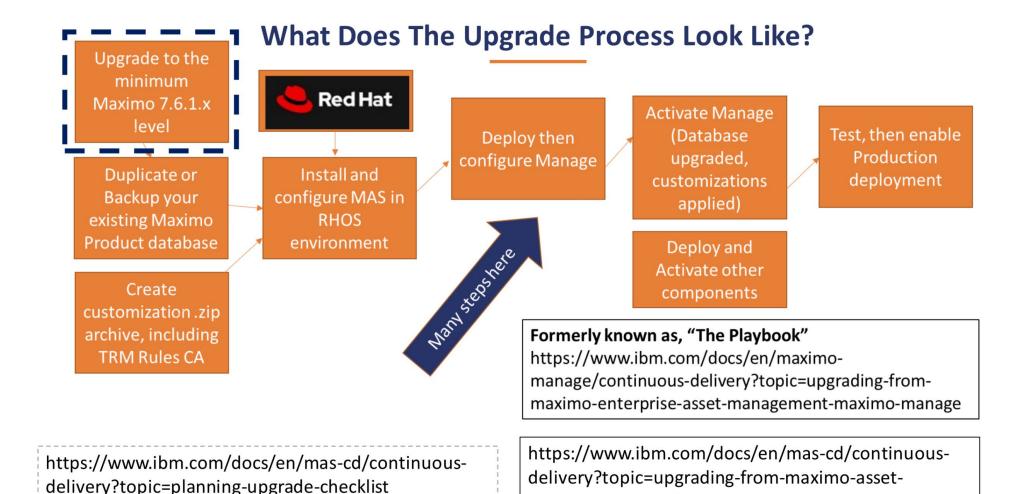


Entry level offering for new SaaS clients

- Starting at less than \$40K per year
- Fixed configurations at a fixed price
- Minimum operational flexibility
- Suitable for small on-premises EAM clients

Upgrade Process

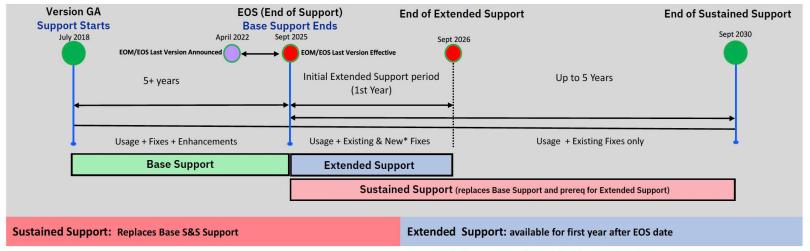




management-maximo-manage

Maximo 7 Parts & Licensing Agreements





- Available up to 5 years after EOS date ends Sept 30, 2030.
- Available for the last supported version and fix pack.
 - EAM 7613 and latest IS/Add-on releases/fix pack
- Support access for usage and existing fixes only, no security fixes.
- · New PassPort Advantage part purchase required

- Extended Support is be sold with Sustained Support.
- Available for 1 year after EOS date ends Sept 30, 2026.
- Available for the last supported version and fix pack.
 - EAM 7613 and latest IS/Add-on releases/fix pack
- Support access for usage, existing and new critical Sev1 bug fixes, no proactive security fixes.
- New PassPort Advantage part purchase required

Maximo 7 Extended Support Year 1

(9/30/25-9/30/26)





Support for routine Usage and How-to questions



Access to documentation, technotes & other online product material



Basic Troubleshooting

IBM Sustainability Software / © 2023 IBM Corporation



Provide existing code patches and fixes



Unlimited number of technical support incidents



Standard SLO's apply (example 24x7 severity 1)



Critical/Severity 1 defects in the first year (cumulative fix)



No new proactive security fixes will be provided



No new development analysis of new defects (excluding Sev1 in 1st year)



No new patches will be provided



No new features or enhancements



No support for Supporting Programs and 3rd part components

Maximo 7 Sustained Support 5 Years

interloc maximo mobility. cloud.

(Through 9/30/30)



Support for routine Usage and How-to questions



Access to documentation, technotes & other online product material



Provide existing code patches and fixes



Unlimited number of technical support incidents





No Critical/Severity 1 defects



No new proactive security fixes will be provided



No new development analysis of new defects



No new patches will be provided



No new features or enhancements



No support for Supporting Programs and 3rd part components

761x Parts and Licensing - Comparison Chart interloc



Customers on EAM 761x Parts and Licensing - Comparison Chart

	NEW Extended Support (1st year – Sept 30, 2025 to Sept 30, 2026)	NEW Sustained Support (5 years up to Sept 30, 2030)
Support for routine Usage and How-to questions	✓	✓
Basic Troubleshooting	✓	✓
Access to documentation, technotes & other online product material	✓	✓
Standard SLO's apply (i.e., 24/7 severity 1)	✓	✓
Unlimited number of technical support incidents	✓	✓
Provide existing code patches and fixes	✓	✓
Critical Sev 1 defect fixes in first year (delivered via cumulative ifix)	✓	X
New patches or ifixes	X	X
Proactive security fixes	X	X
New features or enhancements	X	X
New development analysis of new defects (excluding Sev1 in 1st year Extended)	X	X
New support for Supporting Programs and 3 rd part components	X	X