



# MAS Upgrade Considerations

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EVP, Cloud & Support Services

# Agenda

- Introducing MAS 9
- Legacy Maximo Support
- Upgrade Readiness
- MAS Licensing
- Q&A





# Key Product Life Cycle Dates

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	April 30, 2024	September 30, 2025
Maximo 7.6.1.1	Not available	December 11, 2022		
Maximo 7.6.1.2	Yes	December 2023 – TBD		
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*

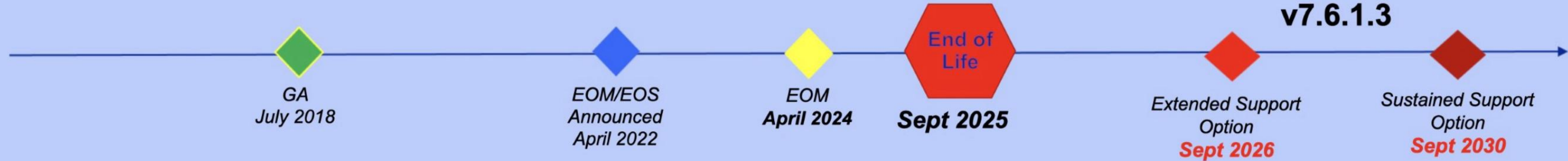
**IBM Extended Support:** Enables clients continued access to IBM Support for "how to" questions, usage issues, known defects published in IBM Fix Central, and new critical sev1 defects (no security fixes) after IBM standard support ends for 7.6.1.x.

**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.



	DESCRIPTION	DATE
Announce End of Market (EOM & EOS)	Announcement Letter published	April 12, 2022
End of Marketing (EOM)	Parts are no longer available for purchase	April 19, 2024
End of Support (EOS)	Update Support Plans and Lifecycle page	Sept 30, 2025

R 7.6.1



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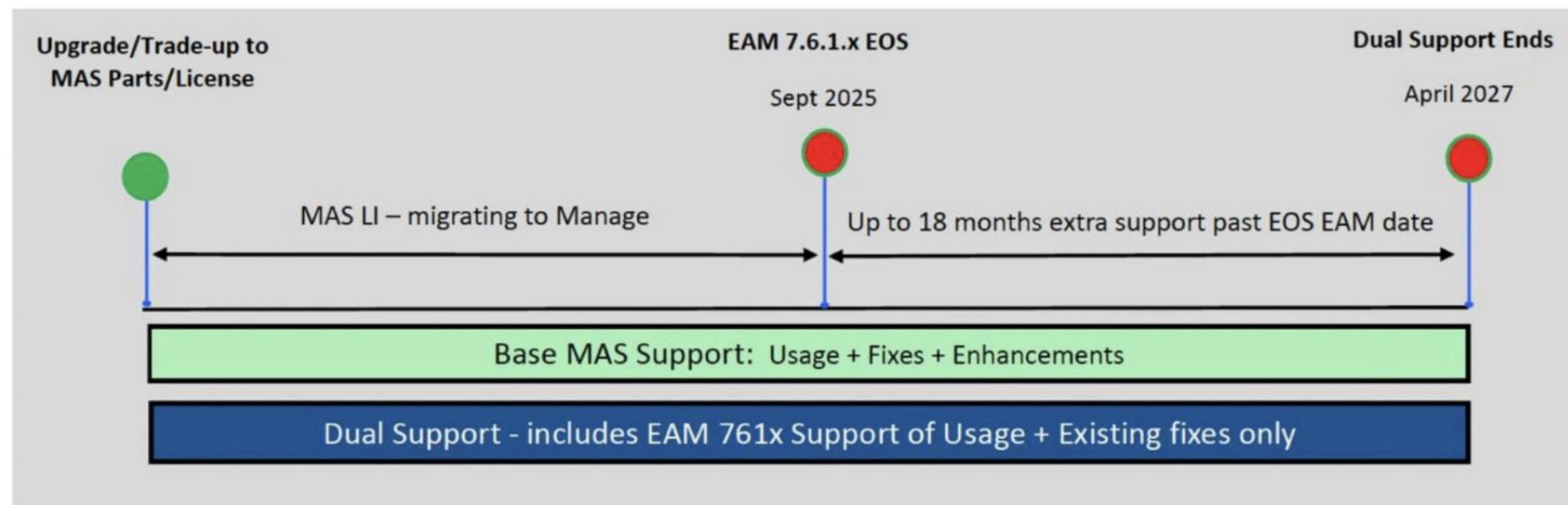
Effective 30 April 2027, dual support under the MAS license for EAM will no longer be available.



# Dual Entitlement

## Customers on Maximo Application Suite License Agreement Maximo EAM 761x Dual Support in MAS

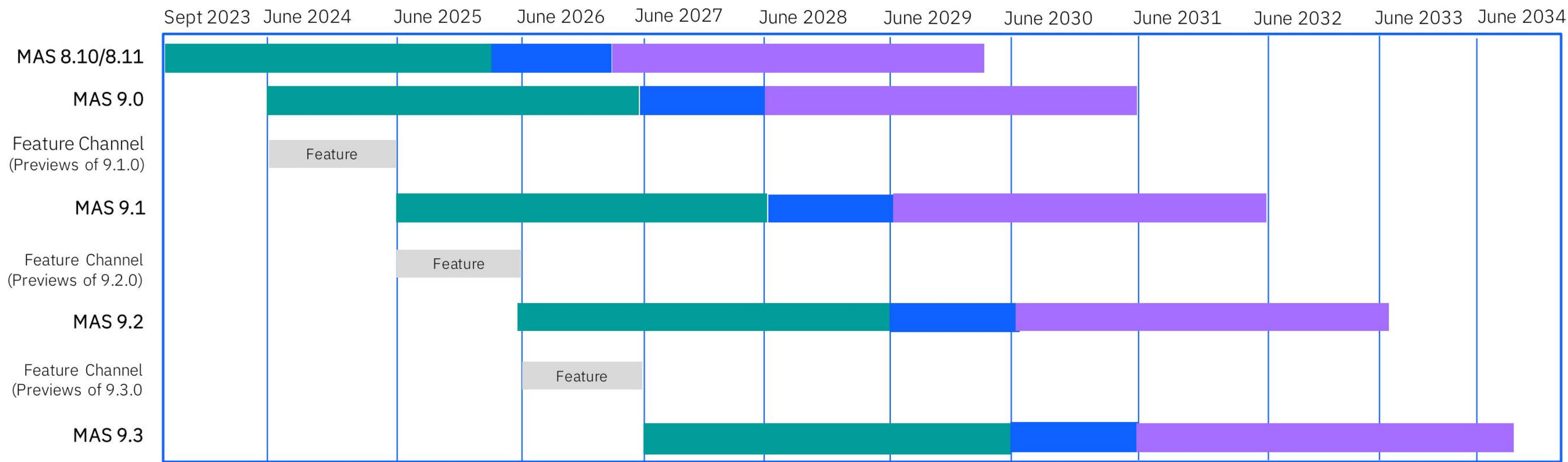
- For customers that have moved to MAS parts and LI commercially and are in the process of migrating to Manage.
- **Dual Support for both EAM 761x and MAS 8.x/9.x up to 18 months past EAM EOS date.**
  - **NOTE: Customers must move to Manage by April 2027 date if support for both platforms is required.**
- EAM 761x Support access is for usage and existing fixes only
  - Available for the last supported version and fix pack
- No new MAS or EAM part purchase is required – IBM is offering this service for our customers to help them during this migration process as part of the S&S of the MAS parts purchased.





# New lifecycle for MAS: 3+1+3 with 12-month release cadence

\*\*Please review MAS SaaS policies for their release cadence



- Follows 3+1+3 lifecycle
- Release every 12 months (9.x)
  - Monthly maintenance updates for 36months (Base Support)
  - Initial Extended Support for another 12 months
  - Ongoing Extended Support for another 36months
- Feature Channel to explore new features in non-production
  - Builds in the feature channel have short term availability and would never be ‘fixed’

\* [Terms and Conditions of Extended Support](#)

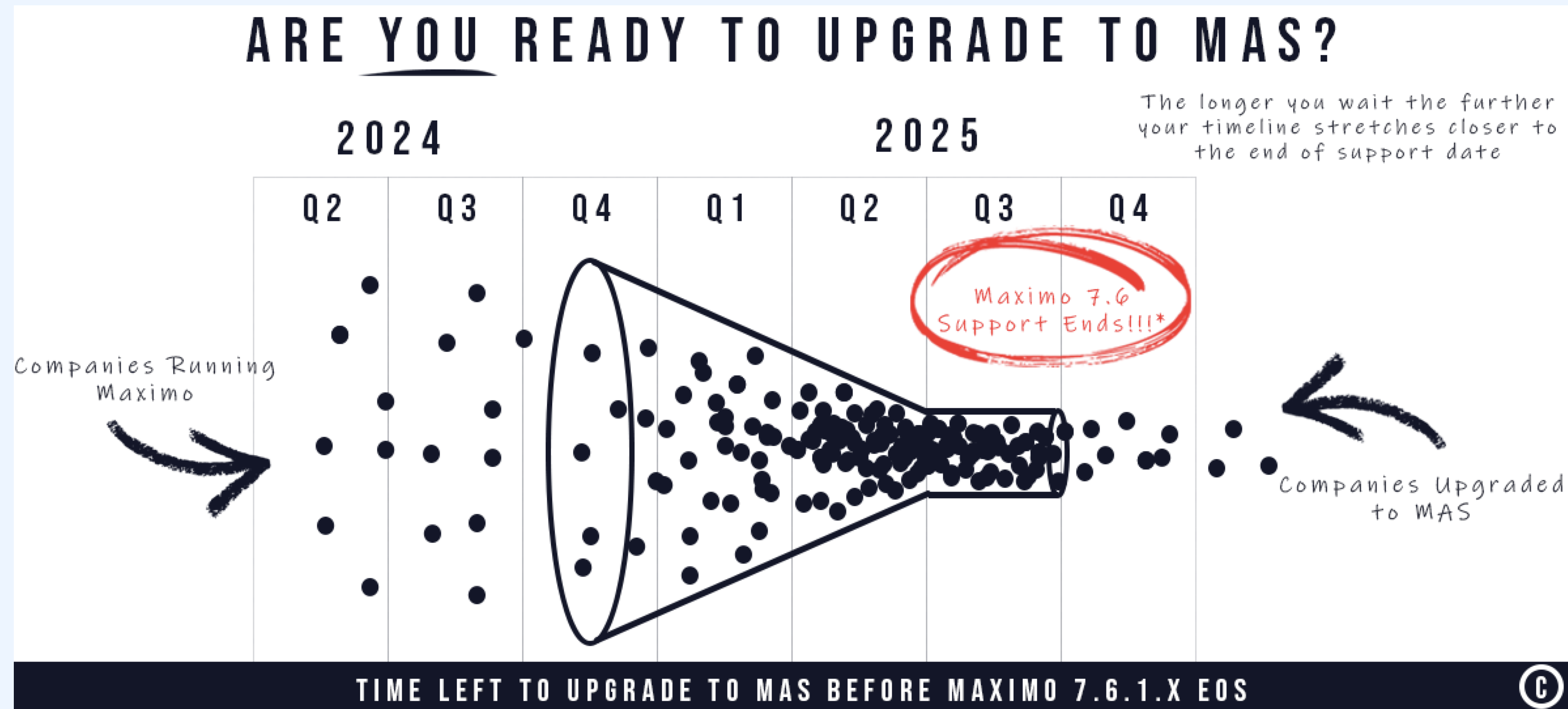
# Time is Running Short!

15 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!





# Upgrade Readiness

Perform a MAS Upgrade Readiness Assessment

What version are you currently on?

- Upgrade from 7.6.0.10, 7.6.1.2 or 7.6.1.3
- Are you running FedRAMP Authorized version of 7.6??
- Run Integrity Checker in REPORT mode, not REPAIR mode

Which MAS apps will you implement?

- Manage? Health? Monitor? Predict? Maximo For IT\*
- Do you need to replace legacy work centers?
- Consider your mobility strategy in light of Maximo Mobile and other 3<sup>rd</sup> 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, Backup, availability, Disaster Recovery offerings
  - Cloud versus Managed Services

## Review Integrations

- MAS uses API keys for web-based interactions-may require changes in integration(s) authentication and construction methods
- Java extensions to Automation scripts?

## Customizations

- Review and determine if need to be modified or replaced with new function or automation scripts

## Reporting

- Start upgrade at 7.6.1.3 if using complex BIRT reports



# Upgrade Readiness

Is this the time to review your data and archive?  
Could a fresh install be more beneficial than upgrading?  
Do you have all the right stakeholders in the room?  
Have you verified all your 3<sup>rd</sup> 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?  
What are your testing & validation requirements/scope?  
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!





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



*IBM or your license provider can provide a quote for your AppPoint conversion*



# MAS AppPoint License Model

USER TYPES	Self Service	Limited	Base	Premium		
Administration Users (Authorized)	N/A	N/A	10 AppPoints	15 AppPoints		
Application Users (Concurrent)	0 AppPoints	5 AppPoints	10 AppPoints	15 AppPoints		
Application Users (Authorized)	0 AppPoints	2 AppPoints	3 AppPoints	5 AppPoints		
Applications	<b>Self Service Applications</b> <ul style="list-style-type: none"><li>• Service Requests</li><li>• Desktop Requisitions</li><li>• Requests (Oil &amp; Gas)</li><li>• Create/Review Incidents (HSE)</li><li>• Vehicle Requests (Transportation)</li><li>• Graphical Appt Book (Scheduler)</li><li>• Bill review (Service Provider)</li></ul>	<b>Manage 3 Modules:</b> <ul style="list-style-type: none"><li>• Manage (Linear/Calibration/Spatial)</li><li>• Manage Industry Solutions</li><li>• Manage Add-ons</li><li>• IT</li><li>• Maximo Mobile</li><li>• 3rd Party Mobile</li></ul> <b>Monitor Assist</b>	<b>Manage</b> Includes: <ul style="list-style-type: none"><li>• Linear</li><li>• Calibration</li><li>• Spatial (requires install)</li><li>• Scheduler</li><li>• IT</li></ul> <b>Health</b>	<b>Manage</b> Industry Solutions <ul style="list-style-type: none"><li>• Oil &amp; Gas, Aviation, Transportation, Utilities, Nuclear, Civil Infrastructure</li></ul> <b>Add-ons</b> <ul style="list-style-type: none"><li>• Asset Configuration Manager, Service Provider, Health Safety &amp; Environment Manager</li></ul> <b>Predict Visual Inspection</b> (requires install)		
Install AppPoints (Production Only)	SAP/Oracle/Wor kday Connectors (80)	Civil Infrastructure (50)	Visual Inspection (45) Edge (1)	Spatial (20)	Optimizer (60) / (220)	Location Service for Esri (150) / (220)



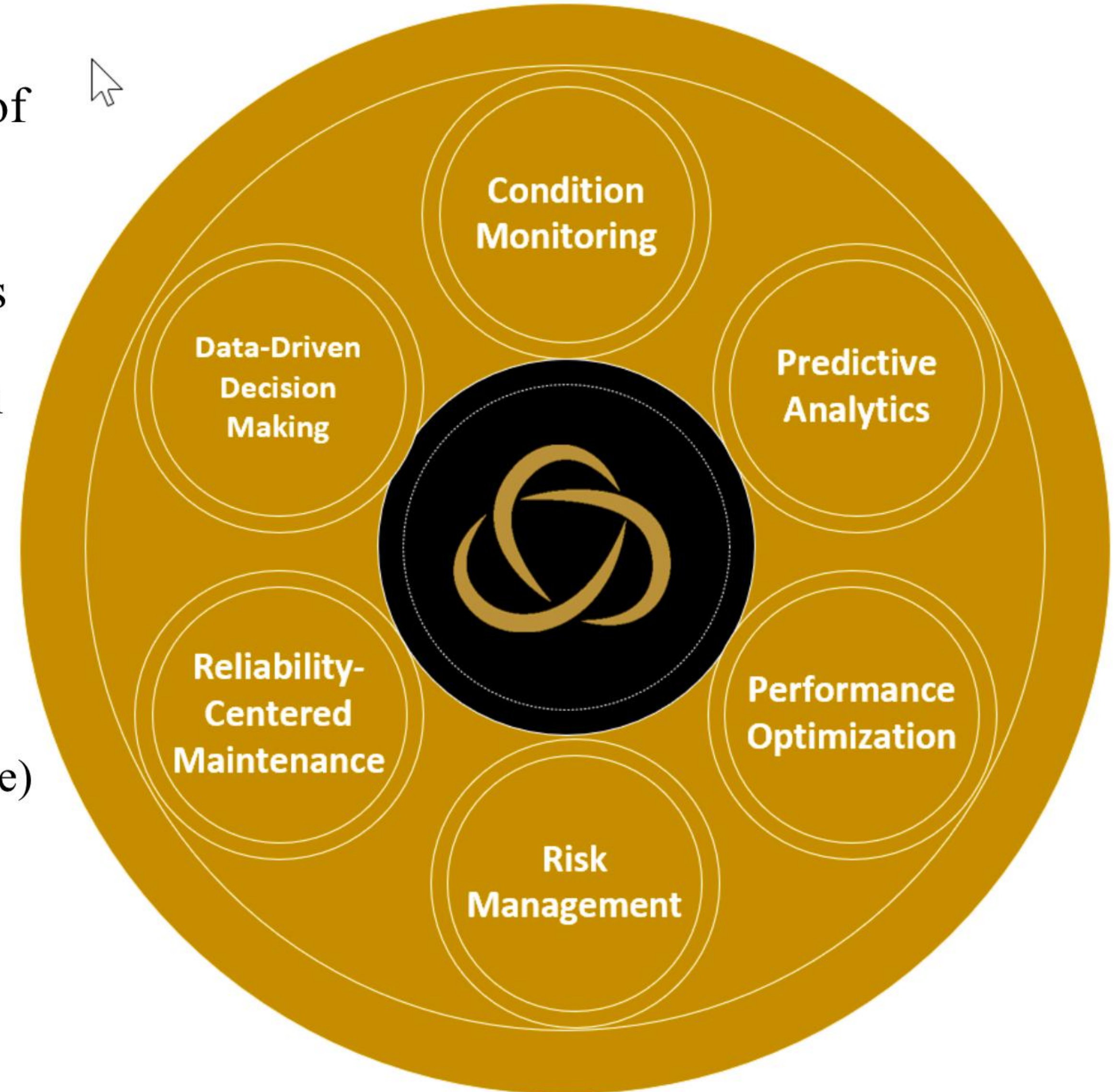
## MAS Deployment Options

Deployment	Availability	Procure	Provision & Operate	Client Benefits
<b>On Premise</b> Customer Managed	Now	Client purchases MAS from IBM Client provides infrastructure	Client provisions, manages, and operates full stack	<ul style="list-style-type: none"> <li>•Maximum operational flexibility</li> </ul>
<b>Hyperscalers</b> Customer Managed	Now AWS Azure IBM Cloud	<b>BYOL</b> Client purchases software from IBM and infrastructure from Hyperscalers	Client runs IBM-provided automation scripts to deploy MAS on Hyperscalers' cloud  Client manages and operates both software and infrastructure	<ul style="list-style-type: none"> <li>•Simplifies procurement and deployment</li> <li>•Allows client to select their Hyperscalers</li> <li>•Flexibility for clients to manage and operate their environment</li> </ul>
	Now AWS Azure	<b>Paid (Marketplace listing)</b> Client purchases software and infrastructure from Hyperscalers		
<b>SaaS Editions</b> IBM Managed	Now  AWS	Client purchase single part (includes software, infrastructure, and operations) from <u>either</u> std IBM sales/channels or AWS Marketplace  Essentials  Standard  Premium	IBM provisions, manages, and operates Client's MAS environment on AWS Cloud using IBM's AWS cloud account  Provides a base implementation of Manage or MVI. Limited configuration.  Provides full MAS Capability, with limited options and operational options  Full MAS with more flexibility.	Reduced time-to-value Reduced operational costs Allows clients to focus on business priorities Entry Level for small implementations.  Targeted at most clients requiring MAS and wanting to focus on standard capabilities. For clients wanting more operational features and flexibility.






# What is APM?

- Asset Performance Management (APM) refers to a set of practices and technologies aimed at improving the performance, reliability, and lifespan of critical assets
- APM integrates various strategies, tools, and techniques to monitor and manage the health of assets throughout their lifecycle, from design and installation to operation and decommissioning
- Key Aspects of APM:
  - Condition Monitoring (sensors, diagnostic tools)
  - Predictive Analytics (data and AI to predict failure)
  - Performance Optimization (analysis for inefficiencies)
  - Risk Management (assess risk for repair, replace, upgrade)
  - Reliability-Centered Maintenance (determining maintenance approach based on the reliability of each asset)
  - Data-Driven Decision Making (IT/OT data to make decisions)





# Key differences between EAM and APM

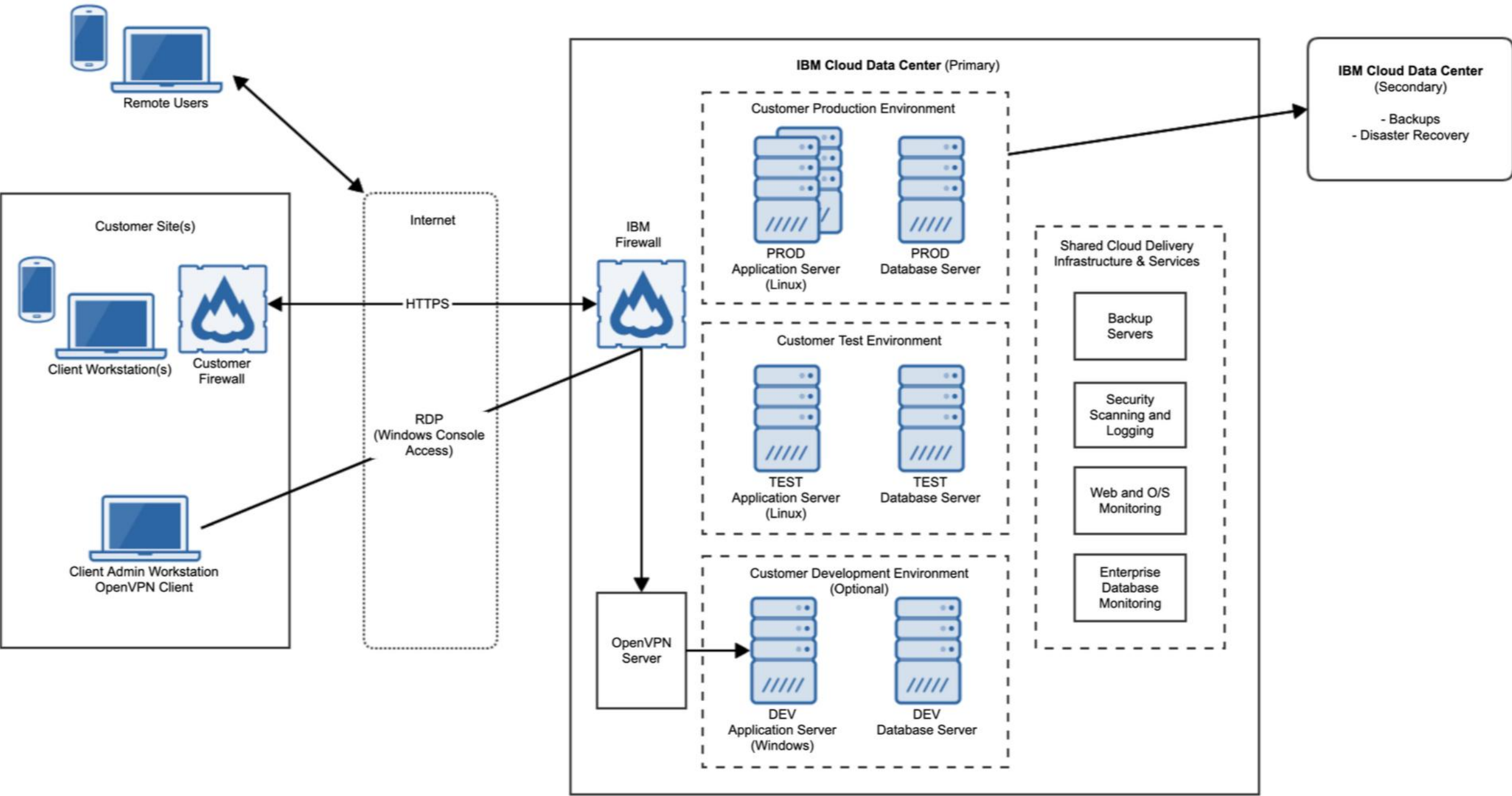
	EAM	APM
<b>Focus</b> 	Broader, covering the entire asset lifecycle and focusing on maintenance and operations management	More focused on optimizing asset performance, preventing failures, and improving efficiency using real-time data and analytics
<b>Data Usage</b> 	Uses historical data and maintenance records to manage assets effectively	Relies heavily on real-time data, condition monitoring, and predictive analytics to improve asset performance
<b>Objective</b> 	Aims to ensure assets are properly maintained and managed throughout their life	Aims to maximize asset performance by preventing unplanned downtime and improving operational efficiency

[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](#)

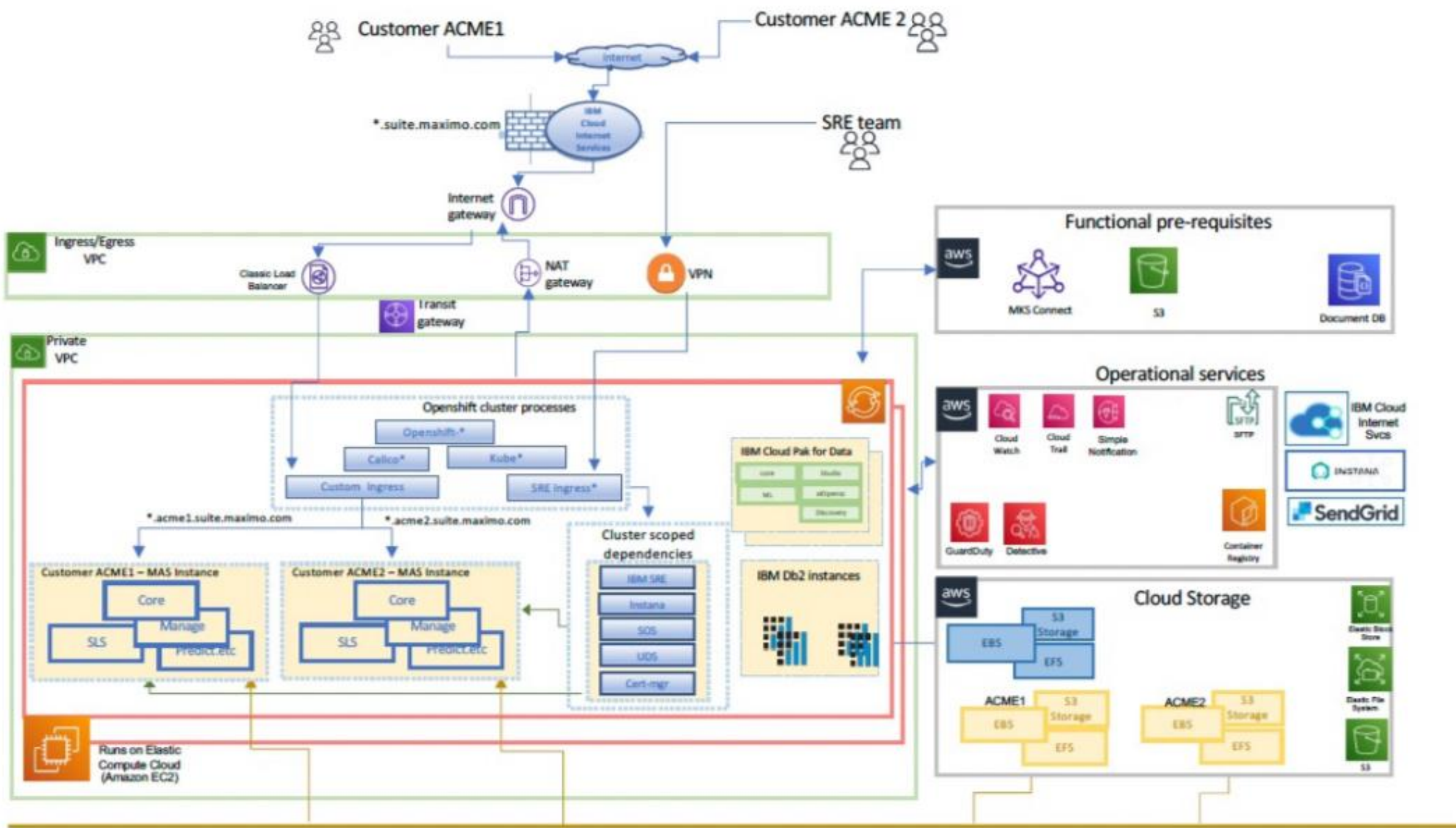


# Backup

Legacy Maximo



Maximo Application Suite





# Upgrade Tooling

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

IBM® Maximo® Application Suite Infrastructure Calculator - v8\_10

\*\*\*For GUIDANCE Purpose Only\*\*\* - Enter Inputs in Yellow Cells Only

Enforce 3 Master + 2 Worker Nodes?	Y
Installing into Existing OpenShift?	N
Install Manage w/Existing Database?	Y
Install Monitor w/Existing Database	N
Isolate DB2 Databases on Single Server?	N
Isolate Visual Inspection GPU Nodes?	N
Number of Development Environments	0
Enforce Dev DBStorage = Prod DBStorage?	N

1

Users:

Users are defined as  
\*concurrent\* users when  
sizing the infrastructure  
requirements

2

When calculating with i/o points, the total is equal to the  
product of the following three dimensions:  
1) Number of devices  
2) Number of data points sent in each message  
3) Number of messages sent per minute per device

3

To calculate Predict Data  
Points, Use the "Predict Data  
Points" tab

4

Existing JVMs Deployed with Maximo  
EAM v7.6.1.x  
If both JVMs and Users are defined, the  
calculation will use the larger of the two  
outcomes.

Calculations

Use (Y/N)

Primary

Secondary (Optional)

Applications	Manage	Y	Current	10	Users <sup>1</sup>	-
	Health	N	UI JVMs <sup>4</sup>		Users <sup>1</sup>	-
	Monitor	N	i/o points <sup>2</sup>	-	Users <sup>1</sup>	-
	Predict	N	Data Points <sup>3</sup>	65,700		
	H & P - Utilities	N	Asset Classes	-		
	Visual Inspection	N	Users <sup>1</sup>	-		
	Assist	N	Users <sup>1</sup>	-		
	Optimizer	N	Users <sup>1</sup>	-		

Scroll for Results >

Additional Manage Options

Deploy Cognos?	Manage Specific JVM Requirements		
	MIF	Reporting	Crontask
N	1	1	2

Production Cluster TOTALS

vCPU	29	Memory (GiB)	144.5	File Storage (GiB)	290	DB2 Storage (GiB)	-	GPU	-
OpenShift Master Node Requirements	12	48	360	-	-	-	-	-	-

Application Sizing

vCPU	Memory (GiB)	File Storage (GiB)	DB2 Storage (GiB)	GPUs
Manage - Calculated	15.5	91	-	
Health - Not Selected	-	-	-	
Monitor - Not Selected	-	-	-	
Predict - Not Selected	-	-	-	
H & P - Utilities - Not Selected	-	-	-	
Visual Inspection - Not Selected	-	-	-	-
Assist - Not Selected	-	-	-	
Optimizer - Not Selected	-	-	-	
Total Application Quantities:	15.5	91	-	-

Additional Application Sizing

vCPU	Memory (GiB)	File Storage (GiB)	DB2 Storage (GiB)
Manage/Health DB2 - Medium	-	-	-
Monitor DB2 - Not Selected	-	-	-
Manage - (MIF, Rprt, Crontask) + Cognos	6	36	-
Watson Studio - Not Selected	-	-	-
Watson ML - Not Selected	-	-	-
Watson Discovery - Not Selected	-	-	-
Kafka - Not Selected	-	-	-
CouchDB - Not Selected	-	-	-
Total Additional Application Quantities:	6	36	-

Cluster Wide Allocations

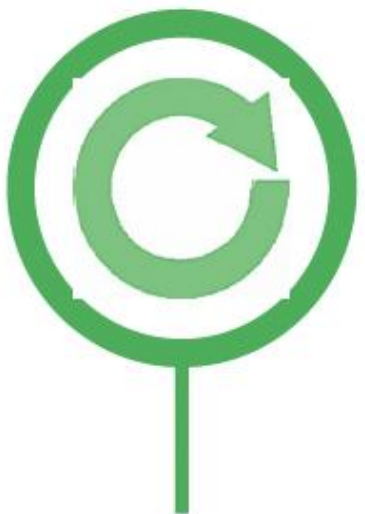
vCPU	Memory (GiB)	File Storage (GiB)	DB2 Storage (GiB)
MongoDB - Medium	2	-	30
MAS Core	2	2	20
OpenShift Worker Nodes	3.5	15.5	240
CP4D Base - Not Required	-	-	-
Total Cluster Wide Quantities:	7.5	17.5	290



# Maximo 7 Extended Support Year 1 (9/30/25-9/30/26)



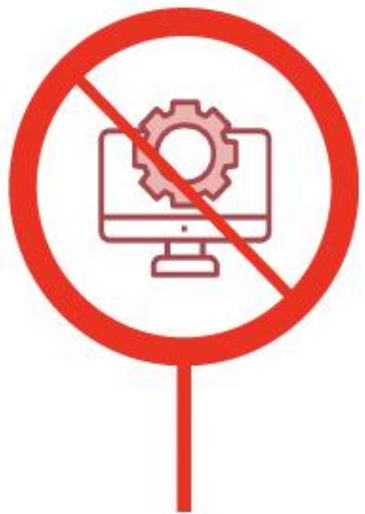
Support for routine Usage  
and How-to questions



Provide existing code  
patches and fixes



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



No new patches will be  
provided



Access to documentation,  
technotes & other online  
product material



Unlimited number of technical  
support incidents



No new proactive security  
fixes will be provided



No new features or  
enhancements



Basic Troubleshooting



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



No new development analysis  
of new defects  
(excluding Sev1 in 1<sup>st</sup> year)



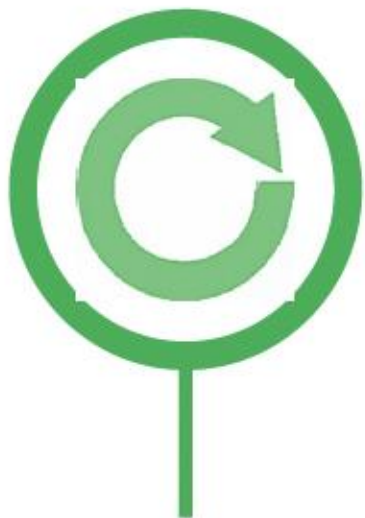
No support for Supporting  
Programs and 3<sup>rd</sup> part  
components



Maximo 7 Sustained Support 5 Years (Through 9/30/30)



Support for routine Usage  
and How-to questions



Provide existing code  
patches and fixes



No Critical/Severity 1 defects



No new patches will be  
provided



Access to documentation,  
technotes & other online  
product material



Unlimited number of technical  
support incidents



No new proactive security  
fixes will be provided



No new features or  
enhancements



Basic Troubleshooting



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



No new development analysis  
of new defects



No support for Supporting  
Programs and 3<sup>rd</sup> part  
components