



MAS Upgrade Considerations

A large, light beige graphic of the interlocking rings logo is positioned on the right side of the slide, serving as a background element.

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VP, Cloud Services & Support

Interloc Solutions

Why Upgrade Now?

- Why
 - 7.6.1.2
 - No iFixes after 12/05/2023
 - Product usage still supported
 - 7.6.1.3 EOS 9/30/2025
 - Limited upgrade capacity among IBM and MX system integrators
- Support Links
- [Product Lifecycle for Maximo 7.6.1.x](#)
- [End of Interim Fixes for Maximo 7.6.1.2](#)
- [End of Support for Maximo 7.6.1.x](#)
- [IBM Subscription & Support Overview](#)

Why Upgrade Now

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.



Upgrade Readiness

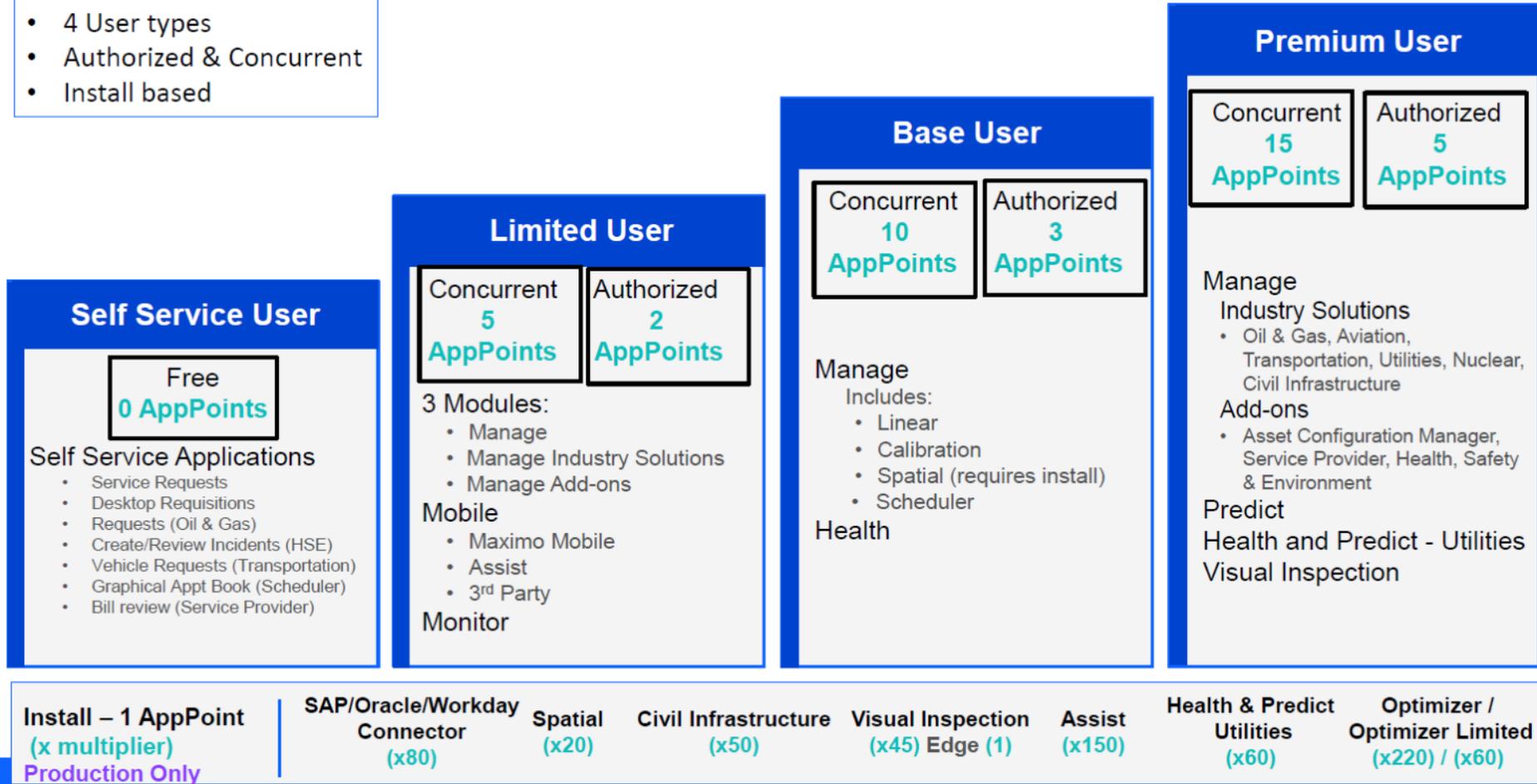
- Perform a MAS Upgrade Readiness Assessment
- What version are you currently on?
 - Cannot upgrade from MX 7.6.0.x , 7.6.1, or 7.6.1.1. Upgrade from either 7.6.1.2 or 7.6.1.3
- Which MAS apps will you implement?
 - Manage? Health? Monitor? Predict?
 - Do you need to replace legacy work centers? Anywhere Mobile?
 - 3rd party solution compatibility
- What license types will you need?
 - Limited? Base? Premium?
 - Concurrent versus Authroized/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 level of effort/plan?
- User training
- Testing scope & effort
- Have a clear, defined upgrade project plan!

MAS Application License Model

- 4 User types
- Authorized & Concurrent
- Install based

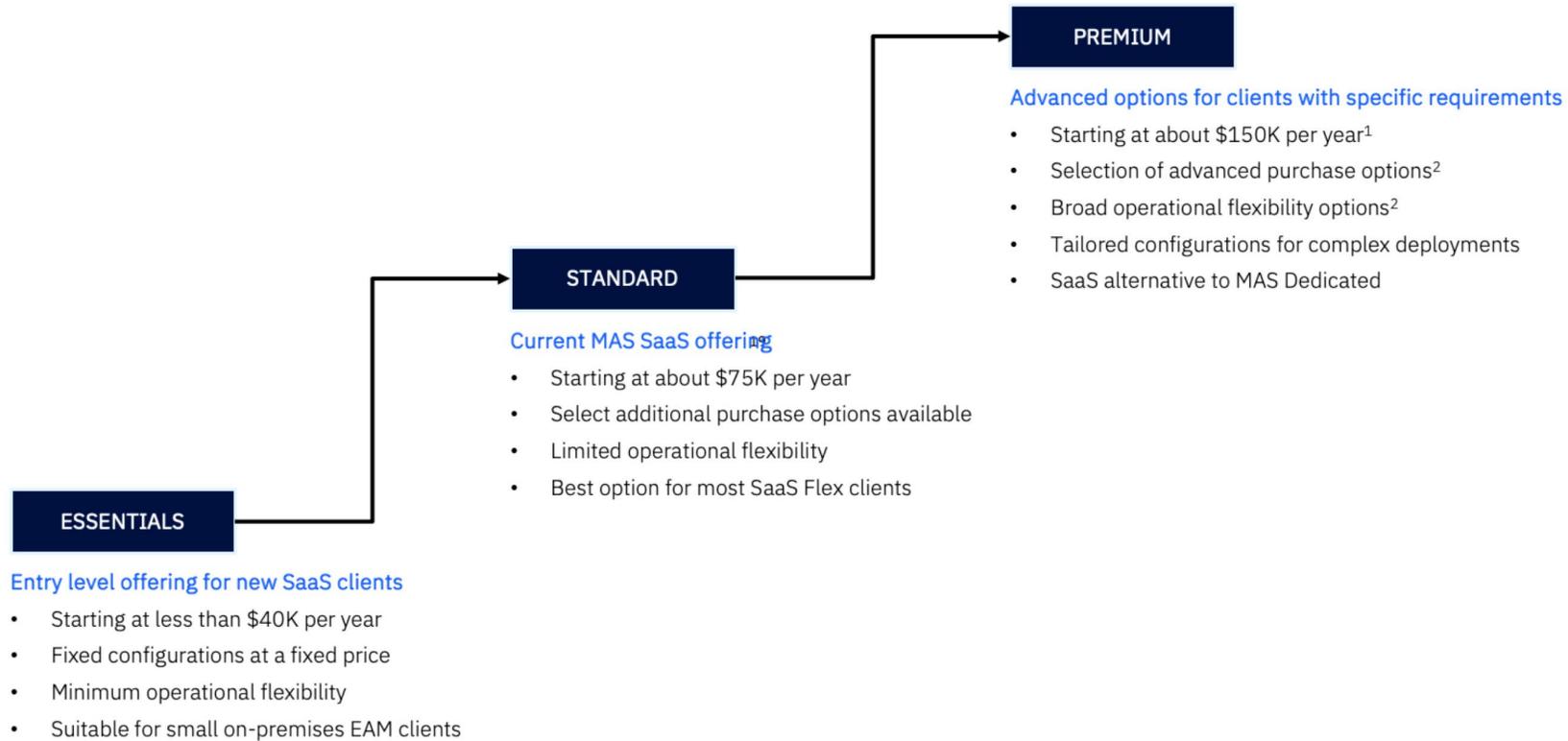


MAS Deployment Options

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	<ul style="list-style-type: none"> • Maximum operational flexibility
Hyperscalers Customer Managed	Now AWS 1Q22 Azure 2Q22	BYOL 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"> • Simplifies procurement and deployment • Allows client to select their Hyperscalers • Flexibility for clients to manage and operate their environment
	Now AWS 3Q22 Azure 4Q22	Paid (Marketplace listing) Client purchases software and infrastructure from Hyperscalers		
SaaS IBM Managed	Now AWS 3Q22	Client purchase single part (includes software, infrastructure, and operations) from <u>either</u> IBM or AWS Marketplace	IBM provisions, manages, and operates Client's MAS environment on AWS Cloud using IBM's AWS cloud account	<ul style="list-style-type: none"> • Reduced time-to-value • Reduced operational costs • Allows clients to focus on business priorities

IBM MAS SaaS Options

New MAS SaaS Tiers



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				

¹Users: Users are defined as ***concurrent*** users when sizing the infrastructure requirements

²When 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

³To calculate Predict Data Points, Use the "Predict Data Points" tab

⁴Existing 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)	
		Size Metric	Quantity	Size Metric	Quantity
Applications	Manage	Y	Current UI JVMs ⁴	10	Users ¹
	Health	N			Users ¹
	Monitor	N	I/O points ²		Users ¹
	Predict	N	Data Points ³	65,700	
	H & P - Utilities	N	Asset Classes		
	Visual Inspection	N	Users ¹		
	Assist	N	Users ¹		
	Optimizer	N	Users ¹		

Additional Manage Options

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

Scroll for Results ----->

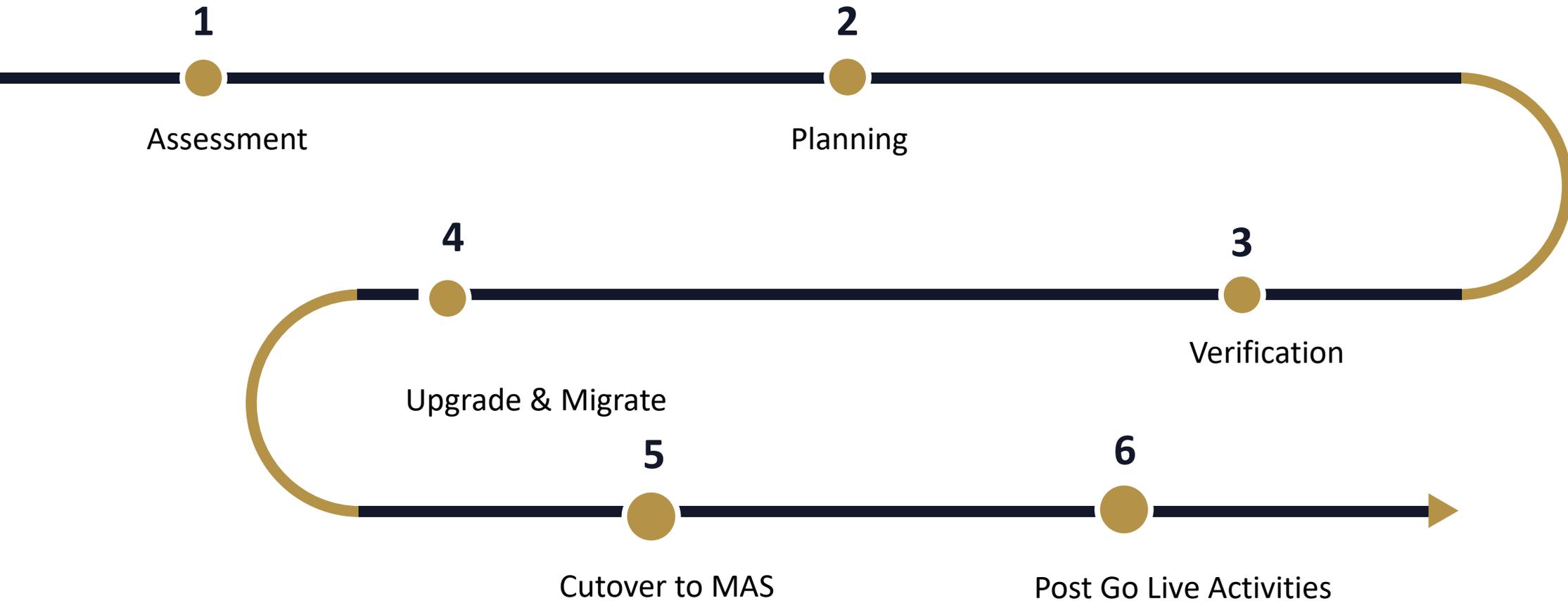
Production Cluster TOTALS	vCPU	Memory (GiB)	File Storage (GiB)	DB2 Storage (GiB)	GPU
Production Cluster TOTALS	29	144.5	290	-	-
OpenShift Master Node Requirements	12	48	360	-	-

Application Sizing	vCPU	Memory (GiB)	File Storage (GiB)	DB2 Storage (GiB)	GPUs
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)
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)
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	-

MAS Upgrade Overview



MAS Upgrade Links

- [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](#)



Thank You

