IBM

IBM Maximo Application Suite Release 9.0

Product Description Guide

This guide is intended to provide you with a description of the modules and applications that are delivered in the IBM Maximo Application Suite (MAS 9.0). This version is a Long term Supported release.

In MAS Release 9.0 several Manage applications and modules have been added or modified to enhance the capabilities, user experience and benefits of the suite.

This guide provides a brief description of each application included in this product, organized by module/sub-module name.
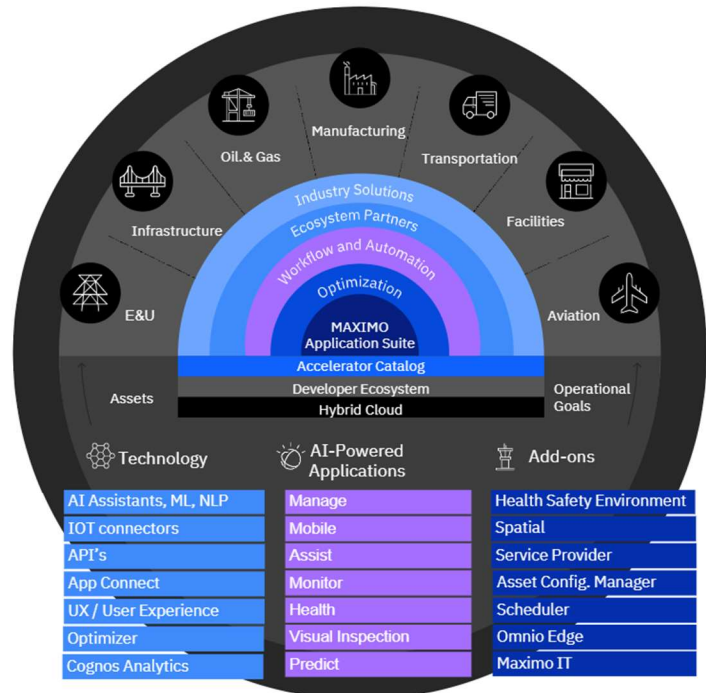
MAXIMO APPLICATION Suite

Powered by AI-based Automation

The next generation of Operational Technology (OT) solutions requires bringing new intelligence that did not previously exist.

Enhancing physical assets operations with rich digital insights helps companies transform their businesses.

Lastly, the solution must be plug and play able to quickly integrate to existing solutions

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Providing intelligent asset management, monitoring, predictive maintenance and reliability in a single platform, Maximo Application Suite provides comprehensive Asset Lifecycle Management capabilities.

Get the most value from your enterprise assets with Maximo Application Suite. It's a single, integrated cloud-based platform that uses AI, IoT and analytics to optimize performance, extend asset lifecycles and reduce operational downtime and costs.

With market-leading technology from IBM Maximo®, you'll have access to configurable EAM, ITSM, and APM applications along with streamlined installation and administration, plus a better user experience with shared data and workflows.

Summary of MAS Manage Modules and Applications

Administration:
- Sets
- Organizations
- Calendars
- Resources
  - Labor
  - Qualifications
  - People
  - Person Groups
  - Crafts
  - Crew Types
  - Crews
  - Work Zones
  - Graphical Crew Management
- Bulletin Board
- Communication Templates
- Report Administration
- Conditional Expression Manager
- Classifications
- Work View
- Service Addresses
- Map Manager
- KPI
  - KPI Manager
  - KPI templates
- Work Queue Manager
- Record Release
- Time Zone Rules
- Scheduler Administration
  - Appointment Book Manager
  - Scheduling Alternate Resources
  - Configure Tooltips
  - Configure Weather Forecast
  - Scheduler Data Manager

Contracts:
- Purchase Contracts
- Lease/Rental Contracts
- Labor Rate Contracts
- Master Contracts
- Warranty Contracts
- Terms & Conditions

Financials:
- Currency Codes
- Exchange Rates
- Chart of Accounts
- Cost Management
- Budget Monitoring

Integration:
- Object Structures
- Publish Channels
- Invocation Channels
- Enterprise Services
- Web Services Library
- End Points
- External Systems
- Logical Management Operations
- Integration Modules
- Launch in Context
- Message Tracking
- Message Reprocessing
- Interactions
  - Create Interaction
  - Interactions
- OSLC Providers
- OSLC Resources
- JSON Resources
- JSON Mapping
- Notifications

Inventory:
- Item Master
- Service Items

Planning:
- Job Plans
- Resource Levels Management
- Routes
- Manage Inspection Forms
- Safety
  - Hazards
  - Precautions
  - Lock Out / Tag Out
  - Safety Plans
- Datasheet Template
- Role Based Applications
  - Inspection Forms

Planning and Scheduling:
- Graphical Work Week
- Graphical Scheduling
- Graphical Scheduling – Large Projects
- Graphical Assignment
- Graphical Assignment – Repair Facilities
- Graphical Crew Management
- Graphical Appointment Book
- Graphical Resource View
- Scheduling Dashboard
- Dispatching Dashboard

Preventive Maintenance:
- Preventive Maintenance
- Master PM

Purchasing:
- Purchase Requisition
- Purchase Orders
- Receiving
- Shipment Receiving
- Invoices
- Requests for Quotations
- Companies
- Company Master

- o Maximo Optimizer Administration
- Push Notifications Administration
- MVI Models
- AI Configuration
- ArcGIS Synchronization

Analytics:
- Cognos Analytics
- Report Viewer
- KPI Viewer

Assets:
- Assets
- Asset Templates
- Locations
- Role Based Applications
  - o Asset Manager
- Meters
- Features
- Relationships
- Meter Groups
- Condition Monitoring
- Failure Codes
- Reliability Strategies
- Manage Assets
- Manage BIM Viewer

Building Information Models:
- BIM Projects

System Configuration:
- Platform Configuration
  - o System Properties
  - o Logging
  - o Domains

- Tools
- Stocked Tools
- Inventory
- Inventory Usage
- Shipment Receiving
- Condition Codes
- Storerooms
- Manage Inventory
- Count Books
- Role Based Applications
  - o Inventory Counting
  - o Inventory Receiving
  - o Issues and Transfers

- Terms and Conditions

Security:
- Security Groups
- Users

Self Service
- Desktop Requisitions
  - o Create Requisition
  - o View Requisition
  - o View Templates
  - o View Drafts
- Service Requests
  - o Create Service Request
  - o View Service Requests
  - o Search Solutions
- Role Based Applications
  - o Service Requests

Service Desk
- Activities and Tasks
- Service Requests
- Solutions
- Ticket Templates

Service Level
- Service Level Agreements
- Service Groups

System Configuration:
- Migration
  - o Object Structures
  - o Migration Manager
  - o Migration Groups
  - o Migration Collections
- Maximo Management Interface
- Formulas

Task Management:
- Activities and Tasks

Work Orders:

- o Database Configuration
- o Application Designer (includes Everyplace)
- o Communication Templates
- o Actions
- o Roles
- o Escalations
- o Workflow Designer
- o Workflow Administration
- o Cron Task Setup
- o E-mail Listeners
- o Web Services Library
- o Launch in Context
- o Instant Messaging Configuration
- o Automation Scripts

- Work Order Tracking
- Labor Reporting
- Quick Reporting
- Activities and Tasks
- Assignment Manager
- Service Requests
- Role Based Applications
  - o Inspections
  - o Technician
  - o Work Approvals
  - o Service Requests

Manage Industry Solutions:
- Transportation
- Utilities
- Oil & Gas
- Aviation
- Nuclear Power
- Civil Infrastructure
- Asset Configuration Manager
- Health, Safety & Environment Manager
- Service Providers

Manage Options:
- Maximo Mobile – included with Manage
  - o Maximo Assist (Remote Guidance)
- Manage Calibration – included in core Manage
- Manage Linear – included in core Manage
- Spatial Asset Management
- ERP Connector for SAP
- ERP Connector for Oracle
- ERP Connector for WorkDay
- Maximo Optimization
- Reliability Strategies

Maximo IT

Maximo Application Suite Applications:

- Monitor
- Health
- Predict
- Visual Inspections
- Accelerator Catalog

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
ADMINISTRATION	Sets	*Used to create a framework for sharing item and company (vendor) data across multiple organizations*
	Organizations	*Used to setup the organizations and sites to be used within Maximo*
	Calendars	*Used to indicate working time for equipment, craft and labor records for an organization and its associated sites*
	Bulletin Board	*Used to create, post and view messages as well as to broadcast information to users of the Maximo system*
	Communication Templates	*Used to create and manage generic communication templates that Maximo users can leverage to standardize frequently used e-mail communications (also known as notifications)*
	Report Administration	*Used to create reports, generate and preview request pages, add parameters, display reports as toolbar icons, email reports, or specify a schedule for running a report*
	Conditional Expression Manager	*Use the Conditional Expression Manager application to create and maintain a library of conditions. In other applications, such as Application Designer and Security Groups, you select from predefined conditions to set up conditional behavior*
	Classifications	*Used to create classifications and establish overall classification hierarchies for Items, Assets, Locations, Work Orders, etc.*
	Work View	*Used to make queries available for display in the Result Set portlet of a Maximo user's Start Center*
	Service Addresses	*Used to organize customer locations and assets by address, enabling a faster search result and mapping.*
	Map Manager	*Used to create and configure maps to provide users with a visual representation of their work.*
	Record Release	*In the Record Release application, you can view the records that users currently have in edit mode. You can also release records from edit mode if they are left in edit mode erroneously.*
	Work Queue Manager	*A work queue consists of a list of potential issues that managers or supervisors can easily review, assign, and address. When creating a work queue, administrators can select applications and*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		predefined queries, associate security groups to the work queue, and select actions. The predefined queries can be Open Services for Lifecycle Collaboration (OSLC) queries or classic saved queries. *Managers and supervisors can use the Work queues card on the Operational Dashboard to review and take quick action on issues.*
	Time Zone Rules	*In this application, you can specify time zone rules to identify the local date and time when records are created for a process, such as generating work orders from a preventive maintenance record.*
	Push Notifications Administration	*You use the Push Notification Administration application to configure push notifications for your mobile apps. IBM® Maximo® Manage supports push notifications on iOS and Android mobile devices.*
	MVI Models	*You can train accurate and efficient AI-based models in Maximo® Visual Inspection.*
	AI Configuration	*As a system administrator, set up and configure artificial intelligence (AI) features in Maximo® Manage to use AI recommendations in the Maximo Manage applications. You can configure AI features by using the AI configuration application.*
	ArcGIS Synchronization	*Used by administrators to configure through a dashboard the synchronization between the GIS Object and Maximo. You can choose to refresh the UI view of the synchronization status never, every 5 seconds, 30 seconds or 1 minute.*
Scheduler Administration	Appointment Book Manager	*Used to create and update appointment books for customer service representatives to use when they schedule customer appointments. An appointment book is a calendar view of the daily time slots in which an appointment for on-premise work can be done.*
	Scheduling Alternative Resources	*Used to define alternate availability for resources in your schedules. You can override resource availability for the entire duration of the project, or for specific dates in the project.*
	Configure Tool Tips	*Used to modify tooltip text for work records and resources in the graphical view. Tooltips are*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		shown when you hover over work or resource bars in the graphical view.
	Configure Weather Alerts	*Configure and enable weather alerts so that work records in the graphical and map views are highlighted when they are at risk because of weather events.*
	Configure Weather Forecast	*Use the Configure Weather Forecast application to enable and configure weather forecast panels in applications.*
	Scheduler Data Manager	*Used to validate a schedule or work list's data before scheduling or assigning work.*
RESOURCES	Labor	*Used to define and maintain labor records*
	Qualifications	*Used to create qualifications and certification requirements for qualifications*
	People	*Used to maintain records of people*
	Person Group	*Used to maintain person groups. A person group consists of people, who may or may not be workers*
	Crafts	*Used to define and maintain craft records*
	Crew Types	*Used to define and maintain the requirements of a Crew*
	Crews	*Used to define and maintain crew records with labor assignments*
	Work Zone	*Used to divide a geographic area into smaller work zones and reduce travel time between work orders. Work is then assigned to resources based on the work zones that they are associated with.*
	Graphical Crew Management	*Used to manage the labor and assets that are assigned to positions in crews visually.*
KPI	KPI Manager	*In the KPI Manager application, you create key performance indicators to track critical performance variables over time. You can view key performance indicators (KPIs) in the start center or in the KPI Manager application.*
	KPI Templates	*Targeting KPIs with multiple variations, the new KPI Template application uses a single KPI SQL statement with a number of variables to allow administrators to seamlessly generate multiple individual KPIs.*
ANALYTICS	Cognos Analytics	*Users can see and access Cognos reports from within applications and Cognos reports are*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		displayed in a separate browser session within the Cognos reporting application.
	Report Viewer	*A user can specify to have a report emailed to a url instead of receiving the file. When they click on the url in their email attachment - it takes them to the 'Report Viewer' application in Maximo where they can see their individual report. Also, a cron task is available to clear out these reports on a regular basis.*
	KPI Viewer	*Users can see the status of the metric, with historical trending. Additionally, communication logs are available so users can collaborate in the tracking and logging actions that are taken to improve the status of a KPI.*
	Design Data Sets	*Building a data set in the Data Set Designer involves selecting an object set and specifying the content or fields that you want to include. You can then configure the content by selecting fields and applying filters and sorting. While you are configuring the data set, you can use the preview feature.*
	Business Analyst	*As a business analyst, you can use the Business Analyst Work Center to analyze information, create reports, and monitor and identify trends. You can use the data that is provided by the Work Center to improve operation and user performance.*
	Map	*Work center for viewing maps, working with Spatial.*
ASSETS	Assets	*Used to store asset numbers and corresponding information such as parent, location, vendor, up/down status, and maintenance costs for each asset*
	Asset Templates	*You can specify common asset information in an asset template that you can then apply to multiple assets. Asset templates can be used to create multiple assets or to update multiple existing assets*
	Locations	*Used to enter and track locations for assets and organize these locations into logical hierarchical systems or network systems*
	Meters	*Used to add or modify meter definitions. Meter definitions include names for the meters as well as sets of attributes that describe the meters*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
	Relationships	*A relationship describes the dependency or connectivity between assets or configuration items. A relationship can be unidirectional or bidirectional. Rules exist for changing or deleting relationships.*
	Meter Groups	*Used to define a logical grouping of meters that will exist in a meter group. Meter groups represent a collection of meters that will be used together multiple times*
	Condition Monitoring	*Used to define unlimited measurement points for assets, and to specify alarm limits and associated work to be performed after reaching those limits*
	Failure Codes	*Used to build and display failure hierarchies, which help you construct accurate histories of the failures that affect your assets and operating locations*
	Features	*A feature is a physical object, such as a guard rail or a mile marker, that you associate with one or more linear assets. Features are not tracked with unique identifiers. You apply costs associated with a feature to the linear asset that has a unique identifier.*
	Role Based Applications	*Asset Manager-mobile app. You can now create and edit assets in the app and change the status of the asset.*
	Manage BIM Viewer	*Use to view imported building model data in the assets and locations of the buildings and also view the import session details. You can also use a building model viewer to view a 3D version of the building and assets.*
	Reliability Strategies	*Provides a library of asset-specific failure details and mitigation activities. Developed by industry and domain experts, the library contains hundreds of assets and tens of thousands of possible failures across all known operating contexts. You can also create your own custom strategies that reflect your organization's reliability studies and maintenance practices.*
BUILDING INFORMATION MODELS:	BIM Projects	*Building information modeling (BIM) is a 3D digital representation of a building and a set of process that use that representation for construction projects, such as buildings, roads, and bridges. Use this application to configure and manage the import of Construction-*

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		Operations Building information exchange (COBie) data. In order to import the data and view the building models, you must set up server directories, configure system properties, and create security groups using this application.
CONTRACTS	Purchase Contracts	*Used to create, modify, and view contracts with outside vendors*
	Lease Rental Contracts	*Used to define the overall terms and conditions of the lease or rental agreement between a vendor and a customer regarding one or more assets*
	Labor Rate Contracts	*Used to define multiple labor rates for specific crafts and skills, and optionally labor records. Within the Labor Rate Contract application, you can manage outside labor and the corresponding rates.*
	Master Contracts	*Used to associate many contract types for a particular vendor. A Master Contract defines the relationship with a vendor and contains terms and conditions that apply to the contracts created and listed under it*
	Warranty Contracts	*Used to maintain one or more assets for an outside service provider for a fixed fee, or regularly scheduled payment over a time period; or to track warranty information for multiple assets or locations by time or meter*
	Terms and Conditions	*Used to maintain a library of terms and conditions that can be added to a purchasing document or contract. These terms can contain information such as liability concerns, shipping and handling details, or delivery time expectations.*
FINANCIAL	Currency Codes	*Used to define currency codes and to specify which codes can be used in Maximo*
	Exchange Rates	*Used to set up exchange rates used for converting currencies in Maximo*
	Chart of Accounts	*Used to establish general ledger (GL) account fields in Maximo with definitions equivalent to those used with the rest of your financial data processing system.*
	Cost Management	*Used to generate project cost information to track the financial resources required to complete a project and manage budgets more effectively*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
	Budget Monitoring	*This application allows you to create budget records to monitor transactions in a financial period. Monitoring budget costs can help to ensure that projects or activities are completed within an agreed budget and can improve estimation of the costs of future projects.*
INTEGRATION	Object Structures	*Use the Object Structures application to create, view, modify, and manage the processing logic of an object structure.* *An object structure is the common data layer that the integration framework uses for all outbound and inbound application data processing. An object structure consists of one or more sub-records that develops their XML content from a particular object.*
	Publish Channels	*Use the Publish Channels application to create, view, modify, or delete publish channel records.* *A publish channel is the pipeline for exporting data from the integration framework to an external system*
	Invocation Channels	*Use the Invocation Channels application to create, view, modify, and delete invocation channel records.* *A Service Oriented Architecture (SOA) environment enables the use of external services for the purposes of data processing from multiple data sources. Invocation channels support this generic SOA capability by enabling the integration framework*
	Enterprise Services	*Use the Enterprise Service application to create, view, modify, or delete enterprise service records.* *An enterprise service is the pipeline for importing data to the integration framework from an external system*
	Web Services Library	*Use the Web Services Library application to create, modify, and delete web services. You also can generate schema and Web Service Description Language (WSDL) files for any web service that you deploy.* *External applications can use web services to query or to send transactions to the integration framework.*
	End Points	*Use the End Points application to create, view, modify, or delete endpoint records.* *An endpoint identifies a location and the processing logic of data publication and service invocations. Through the defined end point handler, you can identify how to route outbound*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		data to a specific location. You also can define which data format the integration framework, or deployment manager component will use through the handler
	External Systems	*Use the External Systems application to create, view, modify, or delete external systems.* *Any business application that sends data to the system or receives data from the system is an external system. External systems let you synchronize external data through an endpoint (location), and internal data through an external source.*
	Logical Management Operations	*Use the Logical Management Operations application to create, modify, and delete logical management operations.* *A logical management operation is the common data layer that defines an action the system takes on operational management product.*
	Integration Modules	*Use the Integration Modules application to create, modify, and delete integration modules.* *The Integration Module application provides a mechanism for a process management product, such as "Change" or "Release," to invoke an external operational management product.*
	Launch in Context	*Use the Launch in Context application to create, view, modify, or delete launch entry records.* *A launch entry lets you open an application that is external to the system in the same or a different browser session*
	Message Tracking	*Use the Message Tracking application to track and view the processing history of queue-based inbound (Enterprise Services), and queue-based outbound (Publish Channels) messages.* *When you enable message tracking, the integration framework writes all processed messages to the system database.*
	Message Reprocessing	*Use the Message Reprocessing application to manage and view integration transaction messages that have been flagged with an error*
	OSLC Providers	*Maximo can be configured as an OSLC (open services for lifecycle collaboration) Consumer where UI-based interactions could be configured between Maximo and an OSLC Provider application*

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	OSLC Resources	*Maximo data can be made accessible as OSLC resources which can be accessed using REST following the OSLC standard. Data access uses the JSON data format.*
	JSON Resources	*This application supports the configuration needed to enable Maximo to consume external RESTful (JSON based) services/apis. Once done the external REST api can be consumed as a Maximo mbo.*
	JSON Mapping	*This application will be leveraged as part of the integration framework for data transformation - XML to JSON (outbound) and JSON to XML (inbound). This can be leveraged from Publish Channel (outbound) and Enterprise services (inbound).*
	Notifications	*Application for defining objects, attributes and conditions that are used to communicate information directly to one or more users, possibly through a template when a condition is met. An example would be to send an email when the requestors service request has been closed.*
INTERACTIONS	Create Interaction	*An interaction can start a web service and send data to it from an application. The interaction can then display data returned from the web service and save this data to the application database.*
	Interactions	*Used to view the interaction and modify mapping information in the Interactions application.*
INVENTORY	Item Master	*Used to define items that will be stocked in your storerooms. You group these items in an item set, which can then be shared by the organizations using that item set*
	Service Items	*Used to define and manage purchased services*
	Tools	*Used to manage information about the tools used to perform work. Tools are typically non-consumable items for which you charge an hourly rate for their use*
	Stocked Tools	*Used to manage existing tools in storerooms.*
	Inventory	*Used to enter, display and update information on each inventory item*
	Inventory Usage	*Replaces the Issues & Transfers application. Use the Inventory Usage application to create inventory usage records that track the issue,*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		transfer, and return of inventory items within and across organizations.
	Shipment Receiving	*In a large organization, you can transfer inventory items or tools between storerooms within the same site or across sites and organizations and track their delivery. You create shipment receipt records to acknowledge the receipt of transferred items and update inventory balances at the destination storeroom.*
	Condition Codes	*Used to create and maintain a master list of condition codes for a particular item set.*
	Storerooms	*Used to add and maintain information about storeroom locations, as well as view the items stocked within a storeroom.*
	Role Based Applications	• Inventory Counting • Inventory Receiving • Issues and Transfers
IT INFRASTRUCTURE	Configuration Items	*Use the Configuration Items application to define, create, and manage CI's.* *A configuration item (CI) is any component of an information technology infrastructure that is under the control of configuration management.*
	Relationships	*A relationship describes the dependency or connectivity between assets or configuration items. A relationship can be unidirectional or bidirectional. Rules exist for changing or deleting relationships.*
	Collections	*Use the Collections application to group configuration items (CIs), assets, and locations in ways that make them easier to access and handle in other applications. Instead of selecting from a list of all CIs, assets, or locations, a user specifies a collection and obtains the list of records in the collection.*
PLANNING	Job Plans	*Used to create a detailed description of how a job is to be performed*
	Routes	*Used to list related work assets that are considered "stops" along an inspection or maintenance route*
	Manage Inspection Forms	*This application allows you create inspection forms by adding questions and defining responses. The inspection forms that you create*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		are then available to inspectors in the Conduct an Inspection.
	Resource Levels Management	*You can create threshold levels that are used to calculate resources for dynamic job plans.*
PLANNING & SCHEDULING	Graphical Work Week	*Use the application to schedule and assign work while you manage resources over a short period of time.*
	Graphical Scheduling	*Use application to manage and schedule work and resources at your organization. The schedules you create are based on work record, asset, or location hierarchy. You can view the schedules in the graphical view to manage them visually.*
	Graphical Scheduling – Large Projects	*Use application to manage schedules that are too large for the Graphical Scheduling application.*
	Graphical Assignment	*You view upcoming work and assign the work graphically to the appropriate labor or crew resource, and respond to dynamic work situations.*
	Graphical Assignment – Repair Facilities	*You can assign work directly to your facilities based on their availability. For example, you can assign work directly to an aircraft hangar.*
	Graphical Crew Management	*You assign labor and assets to crews in the Graphical Crew Management application.*
	Graphical Appointment Book	*You use the Graphical Appointment Book application to schedule appointments in appointment windows that you defined in the Appointment Book Manager application.*
	Graphical Resource View	*You use the Graphical Resource View application to manage resource hours over a period of time. You can choose to see one week or one month at a time.*
	Scheduling Dashboard	*You can see all your schedules at a glance and view upcoming work. You can update work records, view resource allocation, fix scheduling problems, and run optimization from one convenient location. You can publish your changes when your adjustments are complete.*
	Dispatching Dashboard	*You can add your schedules to the Dispatching dashboard and then promptly see key information*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		about your schedules in the dashboard. Also, from the dashboard you can open a schedule to see further schedule information and make changes.
SAFETY	Hazards	*Used to define hazards that exist in the workplace and associate related safety precautions*
	Precautions	*Used to define precautions that can be taken against hazards in the workplace*
	Lock Out / Tag Out	*Used to create a detailed description of how to take work assets out of service or how to place them back in service, to ensure a safe work environment*
	Safety Plans	*Used to create a detailed plan of how to service assets or locations safely*
PREVENTIVE MAINTENANCE	Preventive Maintenance	*Used to create, modify and view preventive maintenance plans for work assets. PM records are templates for work orders or for other PMs*
	Master PM	*Used to create and modify master PMs, which are templates for other PM records*
PURCHASING	Purchase Requisitions	*Used to ask the purchasing department to order materials or services*
	Purchase Orders	*Used to purchase materials or services from an internal supplier or an external vendor*
	Receiving	*Used to receive materials into inventory and record the receipt of services*
	Shipment Receiving	*A shipment record is used to transfer a shipment between two storerooms when an intermediary, such as a shipper, is used. Shipment records are created using the Inventory Usage application and receipts are created against these records using the Shipment Receiving application.*
	Invoices	*Used to record invoices and match against purchase orders and receipts for approval*
	Request for Quotations	*Used to request and manage vendor quotations*
	Companies	*Used to manage data on manufacturers, vendors, and other companies that do business with you*
	Company Master	*Used to create company master records that belong to a particular company set*
	Terms and Conditions	*Used to maintain a library of terms and conditions that can be added to a purchasing document or contract. These terms can contain information such as liability concerns, shipping*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
		and handling details, or delivery time expectations.
SECURITY	Security Groups	*Used to grant access to sites, applications and menu options. A user is assigned to one or more groups to gain access to the system.*
	Users	*Used to add and manage Maximo users*
SELF SERVICE		
DESKTOP REQUISITIONS	Create Requisitions	*Used to create a new desktop purchase requisition*
	View Requisitions	*Used to view existing purchase requisitions*
	View Templates	*Used to view a requisition that was previously saved as a template.*
	View Drafts	*Used to view a requisition that was previously saved as a draft during the create requisition process.*
SERVICE REQUESTS	Create Service Request	*Used by self-service users to create new service requests*
	View Service Request	*Used by self-service users to view existing service requests.*
	Search Solutions	*The solutions library stores predefined solutions that you can use to resolve an issue related to a service, problem, or incident in your work environment. You use the Search Solutions application to search the library for a solution that you can use to resolve an issue yourself, or that you can associate with a ticket so that the ticket owner or requestor can use the solution. Tickets are considered to be Service Requests, Problems, and Incidents.*
ROLE BASED APPLICATION	Service Request	*Mobile - Users who create service requests can now search through a hierarchy to find the correct location, capture their GPS location on the service request, and can add service address information.*
SERVICE LEVEL	Service Level Agreements	*You can use the Service Level Agreements application and escalation functionality to manage and meet the commitments in a service level agreement. An escalation is a function that automatically monitors critical processes. A service level agreement can have one or more commitments, each having their own escalation points.*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
	Service Groups	*You use the Service Groups application to define all services that you provide or procure. You create a service group for each type of service that you define.* *You can group tickets, work orders, and contracts by service group or by individual service. You can create service level agreements for a service group or for a service group and service combination. You can also associate a specific asset, asset type, or location with a service or service group.*
SERVICE DESK	Activities and Tasks	*Use the Activities and Tasks application to plan, review, and manage activities and tasks. When you create an activity, you initiate the work process and create a historical record of work being performed.*
	Service Requests	*Used to create, view, and resolve service requests from customers*
	Ticket Templates	*Used to create and manage generic ticket templates that Service Desk environments can leverage to standardize common or high-volume service requests.*
	Role Based Application	*Workflow Assignment - You can use application to monitor your workflow assignments and take advantage of time-saving features.It shows all of the workflow assignments that are assigned to you.*
SYSTEM CONFIGURATION		
PLATFORM CONFIGURATION	System Properties	*Use the System Properties application to manage system properties and their values used by various product components.*
	Logging	*Use the Logging application to manage log settings and configure log files. The application is part of the System Configuration module of the product.*
	Domains	*Used to maintain lists of defined values that appear in drop-down lists (sometimes referred to as value lists)*
	Database Configuration	*Used to create or modify the objects and attributes used by Maximo applications*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
	Application Designer	*Used to create new applications (clones and custom applications) or to tailor the pages of an existing Maximo application. Includes Maximo Everyplace and its predefined applications.*
	Communication Templates	*Used to create and manage generic communication templates that Maximo users can leverage to standardize frequently used e-mail communications (also known as notifications).*
	Actions	*Used to manage the administrative functions of creating actions and action groups within Workflow, Escalation, and Service Level Agreement (SLA) processes. Actions are scheduled events that occur when a record leaves a Workflow node*
	Roles	*Used to mange roles within Maximo*
	Escalations	*Used to automatically monitor critical processes across your enterprise. The primary goal of Escalation Management is to ensure that critical tasks are completed on time, such as those defined in SLAs*
	Workflow Designer	*Graphical application that is used to create a series of paths for records to flow through, called a workflow process*
	Workflow Administration	*Used to view and modify assignments within Workflow, Escalation and SLA processes*
	Cron Task Setup	*Used to manage cron tasks. Cron tasks are behind-the-scene jobs set to run automatically and on a fixed schedule*
	E-mail Listeners	*Used to receive and process incoming e-mail messages*
	Web Services Library	*Use the Web Services Library application to create, modify, and delete web services. You also can generate schema and Web Service Description Language (WSDL) files for any web service that you deploy. External applications can use web services to query or to send transactions to the integration framework.*
	Launch in Context	*Use the Launch in Context application to create, view, modify, or delete launch entry records.* *A launch entry lets you open an application that is external to the system in the same or a different browser session*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
	Instant Messaging Configuration*	*Use the System Properties application to configure the connection to an instant messaging server. Examples include Google Talk, Jabber, Microsoft Office communication server or Sametime.*
	Automation Scripts	*With the Automation Scripts application, you can implement scripts to automate routine tasks without having to recompile Java files or restart the server. Wizard applications are provided to guide you through configuring scripts to launch in different contexts. After you add scripts to the data base, you can reuse them for different purposes.*
MIGRATION	Object Structures	*Use the Object Structures application to create, view, modify, and manage the processing logic of an object structure.* *An object structure is the common data layer that the integration framework uses for all outbound and inbound application data processing. An object structure consists of one or more sub-records that develops their XML content from a particular object.*
	Migration Manager	*Use the Migration Manager application to define, create, distribute, and deploy packages. Packages are used to transfer and deploy the many configuration changes possible with Maximo's configuration tool set from one environment to another (i.e. Dev, to Test, to Production...).*
	Migration Groups	*Use the Migration Groups application to create groups of configuration objects and link related (dependent) groups to the objects that you create. You group configuration objects ensure that all related configuration data is collected from source environments and distributed to target environments*
	Migration Collections	*Use migration collections to simplify the creation of package definitions. The groups of configuration records that you migrate to another environment are migration collections. A migration collection can contain one or more configuration records of many types.*
	Maximo Management Interface	*A set of REST APIs that enable HTTP-based clients to access information that is related to the current state of a Maximo deployment.*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
TASK MANAGEMENT	Activities and Tasks	*Use the Activities and Tasks application to plan, review, and manage activities and tasks. When you create an activity, you initiate the work process and create a historical record of work being performed.*
WORK ORDERS	Work Order Tracking	*Used to plan, review, and approve work orders for assets and locations*
	Labor Reporting	*Used to report the type and total number of hours of work that was performed by external contractors or internal employees*
	Quick Reporting	*Used to report work on open work orders or small jobs*
	Activities and Tasks	*Used to plan, review, and manage activities that can initiate the maintenance process and create a historical record of work being performed*
	Conduct an Inspection	*Allows users to execute an inspection form against an asset or location. This can be scheduled using PM's and Job plans as it is fully integrated with work processes in Maximo.*
	Work Supervision	*Allows a supervisor to manage the workload of a team of technicians and assign work to them by using the Work Supervision Work Center on a desktop computer or mobile device. They can monitor work that is in progress and review the details of completed work as well as take actions against those records.*
	Work Execution	*Allows technicians access to information about work that is assigned to them and update that work as progress is made throughout their shift.*
	Assignment Manager	*Used to dispatch urgent work and schedule Labor to planned work requirements*
	Service Requests	*Used to create, view, and resolve service requests from customers*
START CENTER	Layout and Configuration	*Used by an administrator to modify and configure the layout of the portlets displayed on the Start Center*
	All Custom Applications	*Allows access to all User created custom applications*
	Favorite Application Setup	*Used by an administrator to define/edit the list of applications displayed in a Favorite Application portlet*
	Forgotten Password	*Action from Login page used to e-mail a User what their current password is.*

MODULE/SUB-MODULE	APPLICATION	DESCRIPTION
	Inbox / Assignments Setup	*Used by an administrator to define/edit which columns will be displayed in the Workflow assignments inbox displayed on the Start Center*
	KPI Graph Setup	*Used by an administrator to define/edit a KPI Graph style portlet to be displayed on the Start Center*
	KPI List Setup	*Used by an administrator to define/edit a KPI List style portlet to be displayed on the Start Center*
	Change Password	*Used to change the user's Maximo password*
	Quick Insert Setup	*Used by an administrator to define/edit the list of applications displayed in a Quick Insert portlet*
	Result Set Setup	*Used by an administrator to define/edit the query used and columns displayed in a Result Set portlet displayed on the Start Center*
	Start Center	*Initial page displayed once logged in to Maximo. Dashboard like starting point that can display various portlets including KPI's, Result Sets, Quick Insert, Favorite Applications, & Inbox/Assignments.*
	User Self Registration	*Used by new users to Register themselves as Maximo users with a temporary password.*
MULTITENANCY	Tenants	*Used by the Multitenancy Manager to on-board and configure tenants, as well as monitor the overall system health by connections and user sessions by tenant or server.*
	Database Information	*Used by the tenant Maximo Administrator to add or modify attributes or relationships within the constraints of the Multitenancy rules.*

IBM MAS Manage - Options:

Maximo Mobile - is a next-generation mobile application platform that allows users to securely access Maximo Manage functionality from a mobile device. The Maximo Mobile app is available for download from Google Play and the Apple App Store. After a mobile user installs the app on their device and connects to the Maximo Manage server, the Technician and Inspections apps, which are deployed on the server, are set up on the user's device. From the Maximo Mobile app, users can use the features in the Technician and Inspections apps to manage work and conduct inspections both when the apps are connected and disconnected.

IBM Maximo Health, Safety and Environment Manager - Provides key extensions to Maximo Asset Management in the mission critical areas of incident management, investigations, change management, non-conformance management, and regulatory compliance and becomes the common thread between safety, production and quality.

Maximo Linear Asset Manager – Included as base functionality in Manage. Used to manage Assets as continuous with dynamic segmentation (i.e. Railways, Roads, and Pipelines etc.).

Maximo Calibration – Included as base functionality in Manage. Used to manage the calibration of test and measurement instrumentation.

Maximo Spatial Asset Management- GIS integration enables users to visualize all assets and work in a geospatial context to optimize resources and work management decisions.

Maximo ERP Connector (Oracle, SAP or WorkDay) – Used to integrate Maximo to Oracle, SAP or WorkDay systems.

IBM Maximo for Service Providers – Used to support clients who deliver Maintenance and Asset Management Services as a business. Includes support for multiple Customers, Response Plans and Billing.

IBM Maximo Asset Configuration Manager – Used to maintain complex assets such as Aviation, Rail and Weapon Systems.

Maximo Asset Management Scheduler - Included as base functionality in Manage. Adds Gantt Chart capabilities providing Maximo Planners an intuitive graphical user interface for the planning and scheduling of all types of work (work orders and PM Forecasts). Introduces all industry standard planning constraints to Maximo such as Start to Finish, Finish to Start, as well as Lead and Lag Times, allowing a Work Planner to accurately schedule work orders while optimizing craft utilization.

Maximo Assist - Provides technicians with remote access to experts for assistance. Using an intuitive mobile interface, users can collaborate with experts to resolve problems. It provides Remote Human assistance; the technician connects to an expert and the two parties can use audio and video during a remote collaboration session. Experts can visually annotate the technician's image stream and provide highly accurate, step-by-step instructions, helping resolve issues faster and more efficiently. This allows the technician to have expert "over the shoulder" guidance and on-the-job training.

Maximo Scheduler Optimization - Includes IBM Maximo Optimization Framework for data and application management of optimization jobs and embeds IBM ILOG® CPLEX® Optimization Studio for solving optimization models. The framework delivers a new scalable and higher performance optimization engine specific to the enterprise asset management domain. It also includes upgraded Java™ versions of models for optimization.

Reliability Strategies - In Reliability Strategies, you can access a library of asset-specific failure details and mitigation activities. Developed by industry and domain experts, the library contains hundreds of assets and tens of thousands of possible failures across all known operating contexts.
Link to video: https://ibm.ent.box.com/s/g9s3rx3yaw671j47pqq7bq1rqiy4f05f

Maximo IT - IBM Control Desk is now known as Maximo IT. Maximo IT is one of the many add-ons to the Manage application in Maximo Application Suite. You get both ITAM and ITSM capabilities into one platform, a single point of user support and enterprise service management of IT/OT assets and processes. ** Sold as an Add-on to MAS Manage **

IBM MAS Manage - Industry Solutions:

Maximo for Oil & Gas - provides enterprises with applications that support integrated processes for improving safety, reliability, environmental, and operational performance in compliance with regulations. The key objectives are to reduce operational risk and to increase the return on assets.

Maximo for Transportation (Fleets, Cars, Trucks, Locomotives, rolling stock, Buses, Ships) - Incorporates features to extend asset life, optimize parts management, reduce road calls, and increase planned maintenance. It introduces Consist management for railway assets. And it has advanced asset management capabilities for asset status, meter change-out and history, meter import, component and position codes, serial number changes, and warranty recovery.

Maximo for Utilities (T&D) - Provides organizations with greater productivity through the use of a multi-level compatible unit library and compatible unit estimating. The product helps you manage resources with enhanced crew type and crew composition, so that you can track skills and certifications. You can also manage and assign qualifications to positions or labor resources on a crew. With the IBM Maximo Asset Management Scheduler add-on, you can view tasks in a Gantt view that uses the task dependencies and duration defined on the work order.

Maximo for Nuclear Power - Provides enterprises with best practices for managing all types of nuclear equipment, tracking regulatory requirements, and enhancing operational and work management practices.

Maximo for Aviation - Aviation companies can efficiently schedule and manage aircraft maintenance to maintain regulatory compliance and minimize periods when an aircraft is grounded. The efficient maintenance, repair, and overhaul (MRO) of aircraft increases flight availability and extends the life of airframes, engines, and other components of an aircraft. Airlines can manage MRO services internally, purchase some or all of these services from MRO providers and offer MRO services to other airlines.

Maximo for Civil Infrastructure (Bridges, roadways, railways, tunnels) - An extension of IBM Maximo® Application Suite, merges digital intelligence with engineering know-how. It helps operators safely monitor, manage and maintain infrastructure assets, predict failures, and prioritize repairs.

IBM Maximo Monitor

Maximo Monitor is an application in Maximo Application Suite. It provides a monitoring solution for real-time visibility, root-cause troubleshooting, anomaly detection, and AI-driven alerts at scale.

With Maximo Monitor, business users visualize current and historical trend data for their devices and devices in customizable dashboards.

From hierarchies, users can drill down through layers from a system-wide view to individual devices.

With over 1000 prebuilt Edge connectors, the challenge of understanding device manuals and coding, and testing integrations has been replaced with an interface that is designed to provide a simplified user experience. This middleware acquires device data and unifies that data into a single, normalized format. With Edge Connectors, your organization can quickly connect device and Open Platform Communications (OPC) sensors.

Analytic functions are applied to input data, and the output is displayed on value cards, tables, images, line graphs, and alert tables.

Anomaly detectors run on the input data to detect outliers, gaps, and flat lines in the data and fire alerts. The anomalous data points are highlighted on line graphs.

To handle the alert, you can open a service request in Maximo Manage directly from the alert table in Maximo Monitor.

Link to How it Works video: https://www.youtube.com/embed/IyQgRwAseLU

IBM Maximo Health

IBM® Maximo® Health is an application in IBM Maximo Application Suite that you can use to improve your assets' and locations' reliability. By using the IBM Maximo Predict application or the IBM Maximo Health and Predict - Utilities industry solution, you can enhance Maximo Health and use artificial intelligence (AI) to predict asset and location degradation and failure.

What is Maximo Health?

By using Maximo Health, you can consolidate operation, asset, location, and maintenance data to gain insight into asset and location performance and to optimize preventive maintenance and, for assets, complete replacement planning. You can increase trust in your data by reviewing assets that have potential data quality issues, and you can configure asset and location scores to drive efficiency, optimize cost, and reduce risk.

IBM Maximo Predict

Maximo Predict and Maximo Health and Predict - Utilities include predictive modeling options and all of the features that are available in Maximo Health.

By using Maximo Predict, you can use artificial intelligence (AI) and your performance data, maintenance records, inspection reports, and environmental data to predict downtime, degradation, and failures and to track imminent failures and maintenance schedules. Maximo Predict includes all the features that are available in Maximo Health and the features that are described in the following sections.

Predict your assets' future

You can create groups of assets and then work with your data scientist to generate different types of predictions for those assets, such as current failure probability or failure dates. Your data scientist can use the group ID and the default notebooks to build and train instances of a predictive model. After a model is trained and deployed, for each asset, a Predictions section is populated with predictions and related data for the asset. For example, asset records might contain the current probability of different failure modes, the number of days until a specific failure mode might occur, or if detected anomalies signal a probable failure. You can also detect operating context-specific anomalies.

The following notebook types are available. All the notebooks are IBM Watson® Studio notebooks and use Python.

- WS notebooks. Use these notebooks for testing machine learning pipelines. These notebooks do not connect to a data lake or Maximo system.
- Data Quality Learn (DQLearn) notebooks. Use these notebooks for determining data quality for a data set.

- PMI notebooks. These notebooks use Maximo Predict pipelines. After the WS and DQLearn notebooks are used to test and determine data quality, use the PMI notebooks to build models for Maximo Predict.

Additionally, your data scientist can configure custom notebooks that are either extensions of default notebooks or completely custom, but the models must be deployed in Watson™ Machine Learning (which is included with MAS via Cloud Pak for Data)

IBM Maximo Visual Inspections

IBM® Maximo® Visual Inspection platform, built on cognitive infrastructure, is a new generation of video and image analysis platforms. The platform offers built-in deep learning models that learn to analyze images and video streams for classification and object detection.

IBM Maximo Visual Inspection includes tools and interfaces for anyone who has limited skills in deep learning technologies. You can use IBM Maximo Visual Inspection to label images and videos that can be used to train and validate a model. The model can then be validated and deployed in customized solutions that demand image classification and object detection.

Main features of IBM Maximo Visual Inspection

Streamlined model training

You can use existing models that are already trained as a starting point to reduce the time that is required to train models and improve trained results.

Single-click model deployment

After you create a training model, you can deploy an API by using one click. You can then develop applications based on the model that you deployed.

Data set management and labeling

You can manage both raw and labeled data.

Video object detection and labeling assistance

Videos that you import can be scanned for objects, and the objects can be automatically labeled.

IBM Maximo Visual Inspection Mobile on iOS

IBM Maximo Visual Inspection Mobile, part of the IBM Maximo Application Suite, is a native iOS/iPadOS mobile app designed to enhance the capabilities of IBM Maximo Visual Inspection by rapidly enabling and scaling visual inspections to achieve lightning-fast ROI. It helps make AI more accessible and simplifies the process of training, deploying, running, and managing computer vision models.

Maximo Visual Inspection Mobile delivers agility with point-and-click ease though the footprint of a mobile app while providing a powerful real-time AI-powered inspection point and data management platform. In a matter of hours, you can train complex computer vision models and deploy the trained model to the device to perform inferencing. The result is a dramatic improvement in production quality inspection and speed to help you spot defects in assets in the field and error-proof your manufacturing.

Introduction video: https://mediacenter.ibm.com/media/IBM+Maximo+Visual+Inspection/1_0j4hxfh0 .

MAS Accelerator Catalog

Accelerators are solutions that are provided by IBM® and IBM partners that extend Maximo® Application Suite capabilities. These accelerators are hosted on the Red Hat® Marketplace that you can integrate and access from the catalog in IBM Maximo Application Suite.

IBM MRO Inventory Optimization

IBM MRO Inventory Optimization can help you optimize your maintenance, repair and operations (MRO) inventory by providing an accurate, detailed picture of performance.

The MRO IO closed-loop solution integrates with EAM and ERP applications, automating day-to-day manual tasks. Machine-learning algorithms gain knowledge from new transactions and movement records coming from the ERP, and use data to determine, in real time, if the current stocking strategy is still appropriate. Considering past material usage and future demand, the solution helps balance the costs of holding inventory against new orders.

Introduction video: https://mediacenter.ibm.com/media/t/1_73e2lq1t