

Maximo 6.x New Features

This analysis was written on November 6, 2006 by John Reeve, Synterprise Senior Consultant, who has 18 years experience implementing EAM/CMMS projects. Information on the most up-to-date Maximo version can be found at www.mro.com.

SECURITY	<p>Security in 6X is done through security groups. No longer is the default an assumption of total access/availability. There is a Person table which links to a User table which links to security group. This same Person table also relates to Labor record which links to crafts. Any user can have administrative rights – if granted. Each MX UserID can belong to multiple Security Groups, and assumes highest level of permission.</p> <p>Other new terms: SETS – simply a new level higher than ORG (and SITE); applies to ITEMS and COMPANIES. This means an ITEMNUM can be seen by multiple ORGs. Data which can now be stored across sites are: ITEMS, TOOLS, COMPANIES, JOBPLANS, MASTER PMs. An ITEMNUM can belong to different SETs</p>
REPORTING	<p>6X uses ACTUATE8 version for report writing. No longer have to do a separate REQUEST PAGE; MAXIMO will generate the XML page (via a button on screen). It is no longer necessary to create a separate ROD file for the request page when creating a report. REPORT ADMINISTRATION allows you to create REQUEST PAGES and CHANGE LABELS for existing reports. A PREVIEW button allows a preview of the generated requested page to determine if the setup is correct.</p>

REPORTING	<p>ADHOC reporting has a closer relationship with MXES;</p> <ol style="list-style-type: none"> 1) Using ERDPRO, to fire-up EQUERY feature 2) Create a new INFORMATION OBJECT 3) Publish this object (getting it onto the MAXIMO server) 4) Set up permissions 5) Use this information object to create QUERY DEFINITIONS
WORKFLOW	<p>WORKFLOW is now a web-based app Workflow is at the database level. MXES workflow has CONTEXT-BASED design in addition to STATUS-based. Context-based means it is based on properties of the record you are looking at. If a workorder is unapproved, you can “take ownership” of it.</p> <p>WORKFLOW: has new nodes, called WAIT and INTERACTION.</p> <ol style="list-style-type: none"> 1) TASK NODE presents a person a couple of choices 2) CONDITION NODE – not a person making a choice, but a Boolean statement 3) MANUAL INPUT NODE – set of instructions or list of things you should do 4) WAIT NODE – makes the record wait until a condition, ie. Material received against a PO, for a WONUM status change. The process pauses at this point until specified events occur. 5) INTERACTION – guided wizard
WORKFLOW	<p>Other WORKFLOW enhancements are:</p> <ol style="list-style-type: none"> 1) You can “workflow” any “statusable” record within MAXIMO. The STATUS field has been added to many applications – for example, i.e.. Jobplans. 2) Note, you could setup a WF for establishing a NEW ASSET Using Workflow you can make some fields mandatory based on status (point in the life cycle) 3) Broadcast to any dataset 4) Calendar-based assignment due dates 5) Notifications with communication templates Assignment escalations with new escalations application. 6) Escalations send a communication template. 7) A ROLE can be: <ol style="list-style-type: none"> i. A special PERSON ii. PERSON GROUP iii. Set of PEOPLE iv. Email address v. Custom JAVA class 8) In MX 5.2, you could only have one active WORKFLOW process (per module). Now you can

	<p>have multiple.</p> <p>9) The ROUTE WORKFLOW ICON has changed. It has the standard “Y” appearance when not yet inside workflow, but indicates a letter “P” shape when active in workflow.</p> <p>10) ESCALATIONS app can be used for:</p> <ol style="list-style-type: none"> Notifying you before CONTRACTS expire Changing status of a MAXIMO object Changing the owner of a MAXIMO object You can use escalations with any Maximo application <p>11) CRON TASKs are behind the scenes jobs which are set to run automatically on a fixed schedule</p>
EMAIL LISTENER	can receive and process incoming service desk emails and create a work request. It supports POP3, IMAP, and MAPI email protocols
CALENDARs	A BASE calendar is created, as usual – which is applied to a Person record (which applies it to the Labor record). There is a new personal calendar feature which supports adhoc absentee updates.
GUI	User interface in 5X did not have “field level context help” but this has returned in 6X. Able to click DOWNLOAD icon on any VIEW LIST screen; goes immediately to EXCEL
CONDITION MONITORING	a new CRON TASK exists for this app which creates workorders. Note(1): You can have a different PM fire for both WARNING and ACTION limit
WOTRACK	new SERVICES tab
WOTRACK	able to create JOBPLAN from WORKPLAN
WOTRACK	<p>New features:</p> <ol style="list-style-type: none"> new LOG tab – which internally has two sub-tabs, one of which allows you to track “sent-email messages to people”. I believe this could be used as a SHIFT TURNOVER LOG by operations & maintenance. for a workorder about to be closed, MXES will automatically check to see if there are open PO’s within a workorder hierarchy; a CHILD workorder can be marked to say it CAN or CANNOT accept charges (and also permit PARENT level status changes) RELATED WORK: new tab on WOTRACK. This is similar to FOLLOWUP work, but you can have infinite amount of wonum’s. You can create JOBPLAN from work order

SERVICE REQUEST	Replaces Work request but this has a separate table. You can create a work order from this service request.
PM	<p>New features:</p> <ol style="list-style-type: none"> 1) can now assign frequency to DAY of the WEEK, and/or multiple SEASONAL entries 2) PM's are statusable. 3) PM-FREQUENCY tab: Option>> GENERATE WO WHEN METER VALUE IS REACHED - - doesn't have to wait for WOKEN CRON task 4) new ALERT field – allows advance checking of PM's for potential creation of WO's before the anticipated frequency. This field will cause MAXIMO to check a certain number of days PRIOR TO when the indicated time-based frequency will be reached, and create a workorder. 5) STOREROOMS: can be location records which can be referenced by the WORKORDER. This means you can write a PM against a rotating asset, currently stored in the storeroom. STOREROOMS can have the same name, if they belong to different SITES.
LABOR and CRAFT	<p>LABOR record can have multiple CRAFTs – however one is default. And CRAFTs have SKILL LEVELS.</p> <p>Also, a given LABOR record can have multiple CRAFTs.</p> <p>Also, PEOPLE/person can be deactivated</p>
ASSETS and METERS	<p>New features:</p> <ol style="list-style-type: none"> 1) Used to be EQUIPMENT table. 2) METERS: there are 3 kinds of meters –GAUGE, CONTINUOUS, and CHARACTERISTIC. METER HISTORY can be updated (read, update and delete) 3) ASSETS: can be moved across ORGs. You can also do a mass move. 4) There is a MAINTAIN HIERARCHY y/n field. This affects sub-assemblies. You mark the PARENT ASSET as YES. Able to do ASSET SWAPs – all in one go 5) You can link an ASSET to a PRIMARY, USER and CUSTODIAN 6) You can DECOMMISSION an asset. This will (if desired) automatically de-link the CHILDREN, PMs, SAFETY PLAN references. 7) CLASSIFICATIONS means ASSET CATALOG 8) Each ASSET can have infinite meters; and you are able to SWAP assets on one screen

JOBPLANS	can be setup ORG or SITE specific, as well as their STEPS and MATERIALS and LABOR estimates. Note: the ORG & SITE fields are optional.
CONTRACTS	<p>New features:</p> <ol style="list-style-type: none"> 1) REVISION concept of PURCHASE ORDERs and CONTRACTs 2) You must authorize at least one site to use a contract; able to do percent price adjustments. 3) PURCHASE CONTRACTS – (similar to PRICE AGREEMENTS and BLANKET AGREEMENTS with RELEASES) - 20% down, and 80% on receipt 4) LEASE/RENTAL – identify rotating items that will be rented or leased when requisitioned; pay over time; you can define a set schedule (weekly or monthly) 5) LABOR RATE CONTRACTS – setup contractor individual pay rates; also, you can setup a LABOR record that can have multiple pay rates depending on how this labor/craft record is used 6) MASTER CONTRACTS – relate multiple contracts to one vendor; could be extendable 7) WARRANTY CONTRACTS – for service or warranty contracts for the maintenance of assets 8) TERMS AND CONDITIONS – new app which stores wording helpful to creating a Purchase Order
TAILORING	<p>DATABASE CONFIGURATION -- is now a web app. This means you can do a SAVED QUERY to find all field names like 'STATUS%' or whatever. Example of this: where OBJECTNAME in (select OBJECTNAME from MAXATTRIBUTECFG where ALIAS like 'STATUS%' or ATTRIBUTENAME like 'STATUS%').</p> <p>Think of an OBJECT as a MODULE (in previous versions). Objects which should not be changed thru this app, are marked as INTERNAL=1</p> <p>The step to RUN D/B CONFIG however is done from DOS CMD, meaning server should be down. Look for file: CONFIGDB.BAT There will be switches that you can turn on/off</p> <p>DOMAIN is VALUELIST. And(!) the choices of this domain can be ORG/SITE specific – which is really neat.</p> <p>AUTOSEED can be a SITE or ORG level or SYSTEM level</p>

INVENTORY	KITS: Items can be part of a KIT. The storeroom can issue a KIT. The balances are automatically handled. You can ASSEMBLE or DISASSEMBLE kits
GENERAL	BULLETIN BOARD – new app which allows message sending within MAXIMO user community, and controllable to who gets the message. Bulletin board capability; you can set who sees issued Bulletin based on PersonGroup
GENERAL	COMMUNICATION TEMPLATES – used to store standard messages/phrases with embedded control variables
INVENTORY	CONDITION CODES – new field on ITEM record which describes condition this part is in. For example: if it is a TIRE, it may be new, or used, and depending on tread depth, it may be used on tractor (front, back) or trailer.
INVENTORY	ITEM: the UNIT OF CONVERSION is now upper case, AND it optionally can be tied to specific ITEMNUM
INVENTORY	TOOLS: there is a TOOLS app and a STOCKED TOOLS app. The STOCKED TOOLS has a balance - linked to a storeroom. Tools can be issued. Note: I did not see ability to track calibration dates on these tools (this might be the CALIBRATION PS add-on product). You should be able to see a list of all staff who have been issued a tool. Perhaps you could add an extra field with certification date, and then run a CRON TASK against this which sends an email to user of issued tool to say that rotating asset is NOT IN CALAIBRATION.

