Smarter Infrastructure: Upgrade Planning



Maximo Email, Workflow and Work Assignments

New features and upgrade considerations from 6 to 7.5

Brian Downey, Maximo Architecture

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Agenda – Theme 1, Email

- Feature 1: SSL email, new in 7.5.0.3
- Feature 2: System for recovery of failed email, new in 7.5.0.3
- Feature 3: Email Interaction Setup, new in 7.5.0.3
 - Demo of 2-way email interactions



Agenda – Theme 2, Workflow

- Feature 1: Parallel Assignments, new in 7.1.1
- Feature 2: Using the current routing memo in workflow, new in 7.5



Agenda – Theme 3, Assignments

- Feature 1: Assignment Tab in Work Order Tracking. New in Scheduler 7.1.1 and included in base 7.5
- Feature 2: Work order and assignment bulk re-schedule. New in Scheduler 7.1.1 and included in base 7.5
- Assignments Demo



Email Feature 1 – SSL Email

7.5.0.3

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Business Drivers

Customer Need

- Enable secure connectivity to mail server
 - Inbound email listener
 - Outbound send mail
- Primary mail servers bulk of our clients use with SSL:
 - Lotus Domino 7.x, 8.x
 - Microsoft Exchange Server 2003, 2007, 2010

Benefit

- Cut IT costs for clients by enabling direct secure connection to mail server
- Avoid workarounds such as re-directing email to nonsecure mail servers

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Improvement Details

Inbound email listener

- Email Listener configuration application
 - Displays POPS, IMAPS protocols in addition to POP and IMAP
 - Defaults secure connection ports
 - Enables setting up STARTTLS command on POP, IMAP
- Email Listener engine
 - Uses secure connection to SSL-enabled mail server ports
- Internal tool TestEmail.bat also enabled for SSL

Outbound email

- System-wide property to enable SSMTP
- System-wide property to set up STARTTLS command

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Handling Digital Certificates

- Mail servers enabled for SSL may present digital trust certificates to clients
- Client must store the certificate and utilize it for all communication with the mail server
- In Tpae 7.5.0.3 digital certificates should be imported into the application server container ahead of configuring email listener or smtp connection
 - WebSphere / WebLogic servers directly manage SSL-connection and apply the certificates
 - No specialized Maximo / Tpae configurations or tools to import SSL certificates

 Customers are responsible for procuring and installing their SSL certificates



Email Feature 2 – Recovery of Failed Email

7.5.0.3

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Problem

- Send Email Notifications from Maximo (JavaMail API)
 - Escalations, Workflows.
 - Create Communications From Tickets, WO, etc.
- Email Notifications are Synchronous (i.e wait for a response from the MailServer).
- MessagingExceptions typically indicate failure to send and are caught and written out to error logs.
- Failed Email Notifications are lost forever.
- Failed Email Notifications impact client's business.



Solution

- Persist failed Email notifications (header and body) in the COMMLOG table whenever an exception or a failure is thrown from the email server so it can be tracked for resend.
- Add a YORN flag to the COMMLOG table to indicate failed notifications.
- Provide a Custom Action out of the box that resends failed messages.
- Gives clients absolute control Apply the Action via an Escalation or Workflow.



Email Failure Tracking

Communication Templ	ates				
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Enabling the Custom Action

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Email Feature 3 – Email Interaction Setup

ISM Library, 7.1.1.7 Base 7.5.0.3



Email Interaction Setup (EIS): The Basics

- New configuration application, defining how users can interact with Maximo records by email
 - Leverages the email listener, escalations, comm templates, roles
- Generates an initial outbound email based on any data condition, using escalations
 - User sends an email reply that can:
 - Change status
 - Accept/reject workflow assignment
 - Update Maximo record attributes
- Uses Maximo security and business objects
- Device independent

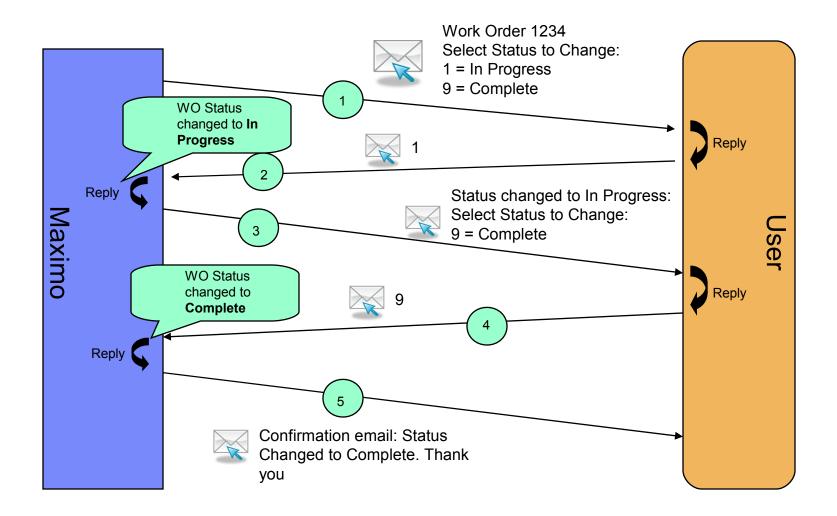


Use case example – WO Status Change

- Mobile worker receives notification of an approved job he is the owner of, based on escalation and comm. template
- Mobile worker replies to email, setting work order in progress, and making other edits e.g. new target dates
- Email listener processes the update, replies to user with a prompt for the next step in the defined chain of events
- Mobile worker replies to the email, choosing to set the work order to complete with a memo
- Maximo sends confirmation email that the email cycle is complete on that record



<u>Work Order Status change</u> - In this example, the expected email exchange between server and user consists of five emails:



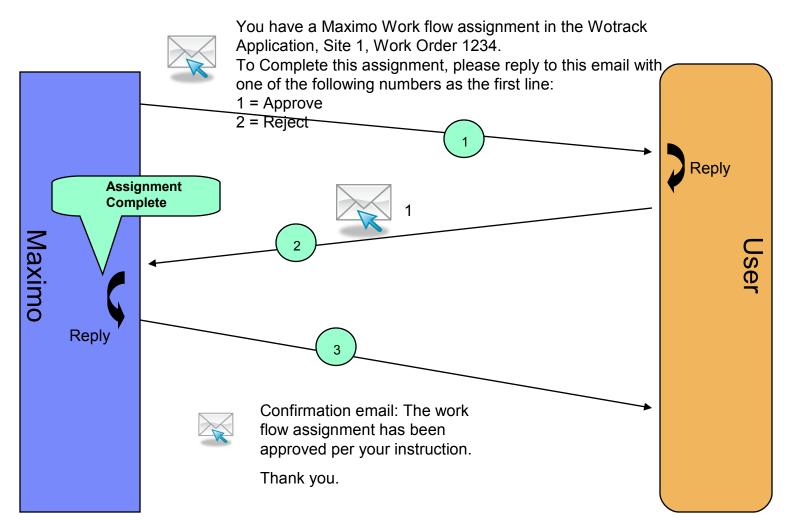


Use case example 2 – Workflow assignment

- A new Service Request enters Workflow
- The 'approval' task is assigned to a supervisor role
- The person acting in that role receives email with information about the SR, and accept/reject actions
- The supervisor accepts the SR for approval
- The E-mail listener processes the update, routing the workflow on its accept action to the next downstream task
- Maximo sends confirmation email to the user that the accept action was processed



<u>Workflow</u> - In this example, the expected email exchange between Maximo for E-mail and user consists of three emails as shown below.



New App sets up messaging rules

🖉 E-m	nail Operation C	Configuration - Wi	ndows Internet Explorer							- 🗗 🗙
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Each step drives a comm template to a role

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Setting up formatted communication templates

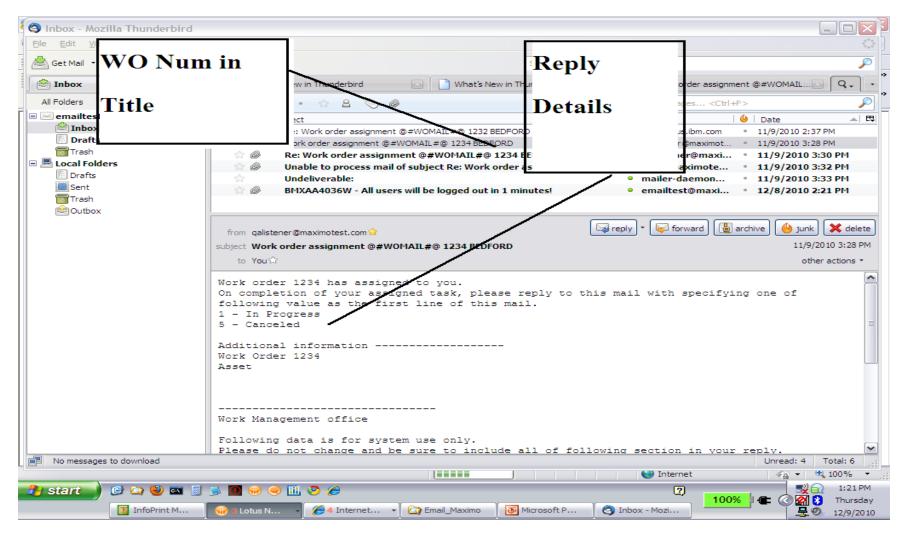
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List Communication Template Recipients Attachment Folders		-
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Email cycle is triggered by escalation

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Email received by mobile worker





Mobile worker replies with updates

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Archi	*#@ If you want to change status, use one of following num #@ 1 - In Progress #@ 2 - Waiting on Material #@ 3 - Completed ; WONUM=E10022 ; SITEID=LTLETN ; DESCRIPTION=Car Maintenance ST
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Email Listener processes inbound reply

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Integration with Workflow

 For the workflow scenario, the comm template is specified on the task node properties in Workflow Designer. The email is sent to the task's role.

🛡 Task Node Properties	🗄 i ? i 🗵
Title APPROV1 First stage approval 🗐 Time Limit	0:00
Application WOTRACK 🔎 Work Order Tracking Display One? 🗸	
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- APPROLEWO A Work order approval owner.	0:00 👕
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Application WOTRACK 🔑 Work Order Tracking	Priority
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Integration with Workflow

In the E-mail Operation Configuration, select an active workflow process for the object. Then the appropriate nodes may be chosen for notification in the email cycles.

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Emailing workflow tasks

- The first table specifies which tasks in the workflow process will support the email operation.
 - Node = NodeID in the workflow process.

Work	flow Assignm	ent Configura	tions 🜗 Filter > 🚳 📋 🗍 🗍	🔶 4 - 2 of 2	÷		E/ Download	? =
	Node	Title	Attribute to store value			Attributes		
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Workflow selection values

- The second table builds the email prompts seen by the recipient.
 - Selection value : The number to be selected by the user in email.
 - Only 1 Accept is allowed.
 - Multiple Rejects are allowed, with a differentiating data value.
 - Response Template : Used as acknowledgement message in response to user's operation.

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Conclusion: configurable email scenarios allow record updates from any device by email

- Simple status changes by numeric replies
 - A single number on the first line of the reply triggers the update
 - Style is chosen on person record, defaults to Advanced
- Advanced status changes, allowing attribute updates
 - Examples: WO description, priority, target dates
 - Edited in the body of the email response
- Simple workflow approve or reject by numeric replies
- Advanced workflow updates, allowing attribute updates



Email Interaction Setup - Demo











Workflow Feature 1 – Parallel Assignments

7.1.1

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Parallel Assignments

- Requirement: specify a workflow task to require one representative from each of several groups to accept the assignment in order for it to move down the accept action line.
- Delivered via Assignee Relationship (to person, person group or role) on task node, mutually exclusive of traditional assignment role.
- Each relationship becomes a group, for assignment purposes.
- Enhances the concept of "any one assignee may accept" vs. "all assignees must accept."



Workflow Feature 2 – Current Memo

7.5.0.3

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Current Memo

- Requirement: capture the workflow routing memo immediately preceding the action that sends a communication template.
- Gets an important piece of routing information onto the notification that is reporting on its action performed.

Current Memo

nt Memo		
	List Canvas Process	
	Process: MEMO DEMO	
	Object: WORKORDER	
	Process Revision: 2	
	START 1 TASK 3	TASK 4
Action Properties		
Action: WO CANCEL >> Work orde	r cancel action	
Instruction: Cancel work order		
Positive?	8	
Custom Class?		
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Communication Template Send To		
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		OK Cancel

Current Memo (vs. Last Memo)

* Send From:	om: bdownlist@maxdev002.swg.usma.ibm.com	
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	Work order was rejected.	
	Work: :description	
	Last memo: :WFASSIGNMENT.lastmemo	
	Rejection memo: :WFASSIGNMENT.currentmemo	
Message:	ge:	•

Current Memo – result of substitutions

☆	Workflow assignment for WILSON @@WFMAIL@@ Work order 1239	bdownlist@maxdev002.swg.usma.ibm.com bdownlist@maxdev002.swg.usma.ibm.com	
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Rejection	memo: too expensive, try again		



Assignments Feature 1 – Assignments Tab in Work Order Tracking

Scheduler 7.1.1 Base 7.5



Assignments Tab

- Requirement: allow labor and crew assignments to be made without leaving Work Order Tracking.
 - Note, crews are now in base Maximo
- Finds available labor or crews by date and shift matching the work plan labor requirements



Assignments Tab

Work Order Tracking									🏠 🔹 🔝 👻 🖃
Work Order Tracking									<u>B</u> ulletins: (0) 🛛 😿 <u>G</u> o To <u>R</u> epor
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Task Description	a								heduled Start
Electric Cart Tune-Up	To find lab	or available during a specific date range, enter th	ne dates in the From and To fi	ields. To include la	bor who are alre	ady assigned to	o other jobs, select	Include Fully Assigned.	17
		* From: 7/25/12			Location:	SHIPPING	0		Available
		* To: 7/26/12			Vendor:		0		
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	SILIKI	Jim Siliki	MECH	FIRSTCLASS		EVENING	7/25/12 3:00 PM		
	SNYDER	Kevin Snyder	MECH		NEEDHAM	NIGHT	7/25/12 11:00 PM		
	CALMS	Mark Calms	MECH	FIRSTCLASS	NEEDHAM	NIGHT	7/25/12 11:00 PM	A 8:00	
								Cancel	



Assignments Feature 2 – Bulk Re-schedule

Scheduler 7.1.1 Base 7.5



Bulk Re-schedule

- Requirement: move all selected work orders on the list tab of Work
 Order Tracking to a new date
- Including an option to re-schedule labor assignments starting at the new date, or un-assign them



Bulk Re-schedule

Work O	rder Tracking										
Bedford Work Orders 💌 Find: 📉 🔍 💌 Select Action 🔍 📜 🔚 🥒 🧼 🖘 💱 🆓 🖳 🚛 🔽 📖 🥥 🛛 🗟 🖓 🚭 🥞											
List	Work Order Plans Assignme	ents Related Records Actu	uals Safety Plan	Log Data Sheet	Failure Reporting	Specifications					
🔍 Adv	vanced Search 🐨 🛛 🔚 Save Query	Bookmarks									
Work Orders 👔 🕨 Filter > 🔍 🖞 🦧 🖞 🏠 🦺 🛊 🧶 🖞 🗇 1 - 10 of 10 🐟											
	Work Order	Description				Location	Asset	Status	Scheduled Start		
	7330	Fuel handling tools				NEEDHAM		WAPPR	3/28/99 7:00 PM		
	7331	Engineering and layout drawing	ngs			BR300	11300	WAPPR	7/25/12 2:34 PM		
	7332	Install latches and dowels				NEEDHAM		WAPPR	7/25/12 2:34 PM		
	7333	Install turntable				NEEDHAM		WAPPR	7/25/12 2:34 PM		
V	7334	Install transfer table				NEEDHAM	Reschedule/	Reschedule/Unassign Assignments			
V	7335	Build out-bay work platform				NEEDHAM					
V	7336	Install tool rack				NEEDHAM					
	7337	Build/install in-bay covers	Build/install in-bay covers			NEEDHAM		Reschedule Date: 7/30/12 3:35 PM			
	7338	Install manual grapples			NEEDHAM	Reschedule	Reschedule the assignments?				
	7339	Install pneumatic grapples				NEEDHAM					
✓ Select Records OK Cance								OK Cancel			



Assignments - Demo











Thank You!

Questions?

