

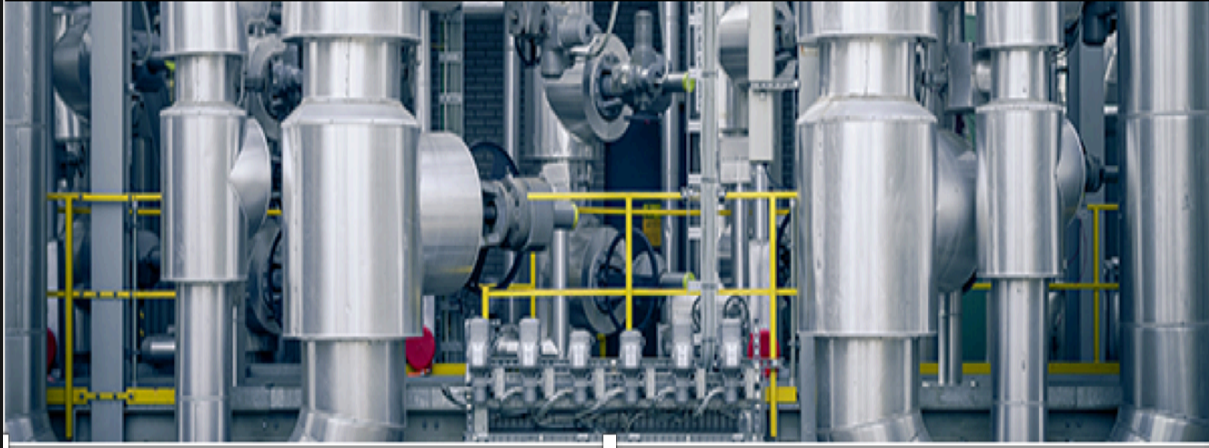
# Maximo Asset Management Scheduler

## What's New in 7.6.8 Release

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# Maximo Wednesday Webinar Series



## Upcoming Topics:

- Migration to Cloud – September 23rd
- Visual Inspections – September 30th
- Mobile Technician - October
- Maximo Application Suite - TBD

## Upcoming Events:



October 6-8 Virtual GOMaximo

<https://www.gomaximo.org/>

IBM AI Academies Re-launch – Oct 14th

Government focused Academy - Oct 15th



# New Release Content Topics

## UX & Data Quality

### New Applications

- Graphical Work Week (GWW)
- Graphical Resource View (GRV)
- Scheduler Data Manager (SDM)

### Existing Applications

- New graphical look for all applications
- Export to Calendar
- Inline Editing
- Rolling Compliance

## Optimization

- Improved performance of optimization models
- New large project optimization model
- Maximo Optimization Framework with embedded ILOG CPLEX  
Optimization Studio replaces previous ILOG technology



# New Release Packaging Topics

## Consolidation of Plus into Scheduler

- Effective v768, features of Scheduler Plus are included into Scheduler license.
- Scheduler license price is unchanged

## Maximo Scheduler Optimization

- Effective v768, separate entitlement is required for Optimization technology
- Entitlement includes optimization models, Maximo Optimization Framework and embedded ILOG CPLEX Optimization Studio
- Scheduler license continues to include scenario management and interaction with optimization solution





# Scheduler 7.6.8

## Graphical Work Week (GWW)



### One application to Schedule and Assign work

- Schedule based on resource load/availability
- Double click to assign work
- Double click to modify availability of labor or crew



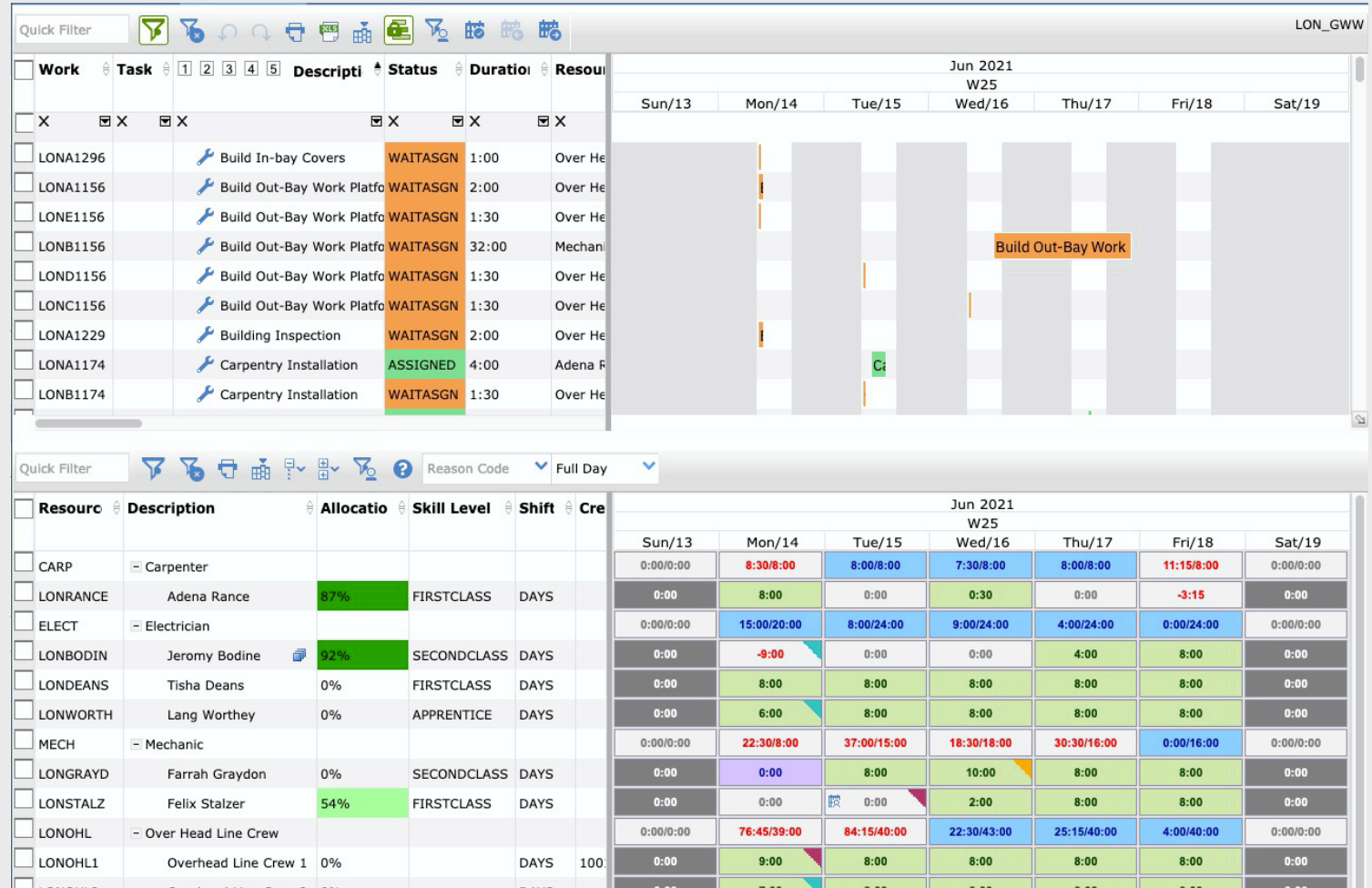
### Based on Assignment Manager Functionality

- Provide only the Calendar/Shift(s) to pull in all work and resources
- Top/Bottom (Work/Resource) view
- Assignments and work/tasks in one flat view



### Capabilities

- Long duration work assigned on double click
- Weekly Labor Allocation values
- Color indicators for modified availability and allocation



# GWW - Scheduling

Sort or Filter to low priority work

Drag and Drop or Set work to Day to move into next week

Collapse to Craft/  
Crew Type Level

Synchronize schedule dates as assignment are made

Resource load/availability

The screenshot displays the GWW Scheduling interface. The top section shows a list of tasks with columns for Work, Task, Description, Status, Duration, Work Order Priority, and Resources. A red arrow points to the 'Work Order Priority' column header. The bottom section shows a resource calendar with columns for days of the week and time slots. A red arrow points to the '22:30/8:00' time slot for the 'ELECT' resource. A red arrow points to the 'Service Build' task in the calendar. A red arrow points to the 'Collapse to Craft/Crew Type Level' button in the top toolbar. A red arrow points to the 'Synchronize schedule dates as assignment are made' button in the bottom toolbar. A red arrow points to the 'Resource load/availability' section in the bottom right.

| Work | Task     | Description                | Status   | Duration | Work Order Priority | Resources |
|------|----------|----------------------------|----------|----------|---------------------|-----------|
| ✓    | LONB1222 | Repair Pneumatic Grapple   | WAITASGN | 1:45     | 9 Over              |           |
| ✓    | LONB1221 | Install Transfer Table     | WAITASGN | 1:00     | 9 Mech              |           |
| ✓    | LONB1213 | Electrical Installation    | WAITASGN | 12:00    | 9 Mech              |           |
| ✓    | LONB1212 | Install Pneumatic Grapple  | WAITASGN | 1:00     | 9 Mech              |           |
| ✓    | LONB1178 | HVAC Inspection            | WAITASGN | 3:00     | 9 Over              |           |
| ✓    | LONB1178 | HVAC Inspection            | WAITASGN | 3:00     | 9 Over              |           |
| ✓    | LONB1175 | Crane Inspection           | WAITASGN | 2:00     | 9 Over              |           |
| ✓    | LONB1170 | Service Building Construct | WAITASGN | 22:00    | 9 Elect             |           |
| ✓    | LONB1170 | Install Pneumatic Grapple  | WAITASGN | 1:00     | 9 Over              |           |

| Resource | Description           | Allocation | Skill Level | Shift | Crew Work Gro |
|----------|-----------------------|------------|-------------|-------|---------------|
| CARP     | + Carpenter           |            |             |       |               |
| ELECT    | + Electrician         |            |             |       |               |
| MECH     | + Mechanic            |            |             |       |               |
| LONOHL   | + Over Head Line Crew |            |             |       |               |

| Jun 2021 W25 |             |             |             |             |            |           |
|--------------|-------------|-------------|-------------|-------------|------------|-----------|
| Sun/13       | Mon/14      | Tue/15      | Wed/16      | Thu/17      | Fri/18     | Sat/19    |
| 0:00/0:00    | 8:00/8:00   | 8:00/8:00   | 8:00/8:00   | 8:00/8:00   | 7:15/8:00  | 0:00/0:00 |
| 0:00/0:00    | 18:00/14:00 | 8:00/24:00  | 9:00/24:00  | 4:00/24:00  | 0:00/24:00 | 0:00/0:00 |
| 0:00/0:00    | 22:30/8:00  | 37:00/15:00 | 9:30/18:00  | 7:30/16:00  | 0:00/16:00 | 0:00/0:00 |
| 0:00/0:00    | 58:30/39:00 | 15:45/40:00 | 22:30/43:00 | 25:15/40:00 | 4:00/40:00 | 0:00/0:00 |



# GWV – Assigning

Work over multiple days  
with automatic splits  
opens a dialog

Select one or more assignment records

Assign Labor

| Filter > 1 - 7 of 7 |      |          |            |             |        |          |                  |       |
|---------------------|------|----------|------------|-------------|--------|----------|------------------|-------|
| WO Group            | Task | Craft    | Labor      | Skill Level | Vendor | Contract | Scheduled Start  | Hours |
| LONA1152            | MECH | LONSTALZ | FIRSTCLASS |             |        |          | 6/14/21 9:00 AM  | 8:00  |
| LONA1152            | MECH | LONSTALZ | FIRSTCLASS |             |        |          | 6/15/21 12:00 PM | 4:00  |
| LONA1152            | MECH | LONSTALZ | FIRSTCLASS |             |        |          | 6/16/21 9:00 AM  | 2:00  |
| LOND1163            | MECH | LONSTALZ | FIRSTCLASS |             |        |          | 6/16/21 11:00 AM | 1:00  |
| LONB1214            | MECH | LONSTALZ | FIRSTCLASS |             |        |          | 6/16/21 12:00 PM | 1:00  |
| LONE1163            | MECH | LONSTALZ | FIRSTCLASS |             |        |          | 6/16/21 1:00 PM  | 1:00  |
| LONC1163            | MECH | LONSTALZ | FIRSTCLASS |             |        |          | 6/16/21 2:00 PM  | 1:00  |

OK Cancel

Modify Availability  
on Double click

## Filter work on top view

## Select craft and Labor

Double click person/day

# Scheduler 7.6.8

## Graphical Resource View(GRV)



### Calendar Availability view

- Labor by Craft
- Crews by Crew Type
- Double click to edit one or more resources modify availability



### Modified Availability tables were time consuming

- Same tables
- Graphical interface
- Remove a customer pain point managing the availability



### Capabilities

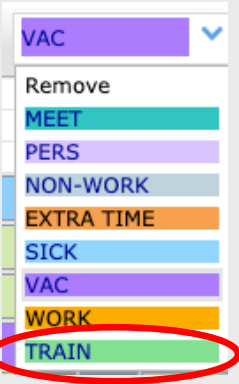
- Clear view of resource availability by craft and crew type
- Easy to work out vacation schedules
- Clear view of resource sick time

Quick Filter

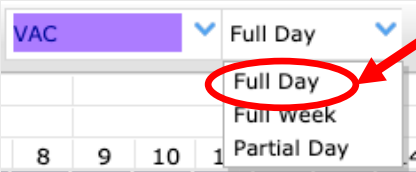


# GRV – Modified Availability – Double Click

Select a Reason code



Select Time Period



Color coded for time off and changed hours for craft

| Quick Filter  |         | TRAIN Full Day       |    |    |    |   |              |    |    |    |    |    |              |    |    |    |    |    |    |
|---|---------|----------------------|----|----|----|---|--------------|----|----|----|----|----|--------------|----|----|----|----|----|----|
| Description   | Shift   | ... Sep 2020 ... W36 |    |    |    |   | Sep 2020 W37 |    |    |    |    |    | Sep 2020 W38 |    |    |    |    |    |    |
|   |         | 1                    | 2  | 3  | 4  | 5 | 6            | 7  | 8  | 9  | 10 | 11 | 12           | 13 | 14 | 15 | 16 | 17 | 18 |
| <input type="checkbox"/> Electrical Technician      |         | 72                   | 72 | 72 | 72 | 0 | 0            | 72 | 72 | 72 | 72 | 72 | 0            | 0  | 72 | 72 | 72 | 72 | 72 |
| <input checked="" type="checkbox"/> Tanya Acosta    | SHIFT_A | A                    | A  | A  | A  | - | -            | N  | N  | N  | N  | N  | -            | -  | D  | D  | D  | D  | D  |
| <input type="checkbox"/> Judah Garrison             | SHIFT_B | N                    | N  | N  | N  | - | -            | D  | D  | D  | D  | D  | -            | -  | A  | A  | A  | A  | A  |
| <input type="checkbox"/> Alex Head                  | SHIFT_C | D                    | D  | D  | D  | - | -            | A  | A  | A  | A  | A  | -            | -  | N  | N  | N  | N  | N  |
| <input checked="" type="checkbox"/> Erin Montgomery | SHIFT_A | A                    | A  | A  | A  | - | -            | N  | N  | N  | N  | N  | -            | -  | D  | D  | D  | D  | D  |
| <input type="checkbox"/> Paula Oneil                | SHIFT_B | N                    | N  | N  | N  | - | -            | D  | D  | D  | D  | D  | -            | -  | A  | A  | A  | A  | A  |
| <input type="checkbox"/> Lauren Pham                | SHIFT_C | D                    | D  | D  | D  | - | -            | A  | A  | A  | A  | A  | -            | -  | N  | N  | N  | N  | N  |
| <input checked="" type="checkbox"/> Seb Ryan        | SHIFT_A | A                    | A  | A  | A  | - | -            | N  | N  | N  | N  | N  | -            | -  | D  | D  | D  | D  | D  |

|   |   |    |    |    |    |    |
|---|---|----|----|----|----|----|
| 0 | 0 | 48 | 72 | 72 | 72 | 72 |
| - | - | D  | D  | D  | D  | D  |
| - | - | A  | A  | A  | A  | A  |
| - | - | N  | N  | N  | N  | N  |
| - | - | D  | D  | D  | D  | D  |
| - | - | A  | A  | A  | A  | A  |
| - | - | N  | N  | N  | N  | N  |
| - | - | D  | D  | D  | D  | D  |

Optionally select multiple labor

Partial day indicator



Select a Day

# Scheduler 7.6.8

## *Scheduler Data Manager (SDM)*



### Is your data ready for Scheduler?

- There are many elements to the data required to Schedule and/or Assign work
- Does your data follow the best practices for Scheduling and Assigning work?



### Time to Productivity

- No need to call support, find and fix the data elements for hundreds of records yourself
- Work Order Tracking allows user to update one record at a time
- Data elements required; duration, planned craft/crew types, resource availability, calendar/shifts



### Capabilities

- Validation and reporting
- In line table editing
- Related table dialog editing without having to go to applications and back

The screenshot shows the Scheduler Data Manager (SDM) interface. At the top, there's a navigation bar with tabs: List View, Schedule, Calendar, Queries, Work, Dependencies, and Assignments. Below the tabs, there's a search bar and a 'Find Scenario' dropdown. The main area displays a table of work order assignments. The table has columns: WO Group, Task, Description, Craft, Skill Level, Crew Type, Crew, Labor, Hours, Status, Scheduled Start, Crew Work Group, and Work Zone. The table is filtered to show 11 records. The first record is highlighted in yellow.

| WO Group | Task | Description                  | Craft | Skill Level | Crew Type | Crew    | Labor   | Hours | Status   | Scheduled Start | Crew Work Group | Work Zone |
|----------|------|------------------------------|-------|-------------|-----------|---------|---------|-------|----------|-----------------|-----------------|-----------|
| SDMW002  | >    | SDM Longer Work              | ELECT | >           | >         | >       | >       | 10:00 | WAITASGN |                 |                 |           |
| SDMW001  | >    | SDM Work No Duration         | ELECT | >           | >         | >       | >       | 2:00  | WAITASGN | 7/16/20 1:54 AM |                 |           |
| SDMW004  | >    | SDM Work SNL                 | ELECT | >           | >         | >       | >       | 2:00  | WAITASGN |                 |                 |           |
| SDMW005  | >    | SDM Work FNL                 | ELECT | >           | >         | >       | SCHAFER | 2:00  | ASSIGNED | 7/15/20 2:00 AM |                 | WORKZONE  |
| SDMW007  | >    | SDM Work Location Assignment | ELECT | >           | >         | >       | >       | 2:00  | WAITASGN |                 | CREWWG          |           |
| SDMW008  | >    | SDM Work No resources        | ELECT | >           | >         | >       | >       | 1:00  | WAITASGN |                 |                 |           |
| SDMW008  | >    | SDM Work No resources        | ELECT | >           | >         | >       | >       | 2:00  | WAITASGN |                 |                 |           |
| SDMW009  | >    | SDM Work Resources           | CARP  | FIRSTCLASS  | >         | >       | ADAMS   | 2:00  | ASSIGNED | 8/10/20 7:00 AM |                 |           |
| SDMW009  | >    | SDM Work Resources           | >     | >           | SCHWATER  | SCHWAT1 | >       | 2:00  | ASSIGNED | 8/10/20 7:00 AM |                 |           |
| SDMW016  | >    | SDM Parent                   | ELECT | >           | >         | >       | >       | 2:00  | WAITASGN |                 |                 |           |



# SDM – General

## Validations

- Calendar – Dates, Work Periods, Shift Patterns
- Queries – Best Practices, Record Counts
- Work – Duration, Interruptible(shift), Schedule Windows, Milestones, Location Assignments, Planned resources, Resource Qty
- Dependencies – Circular, Actuals, Status, Lead/Lag
- Resources – (GS, GS-LP) – Resource Load above Resource Availability for entire Schedule
- Assignments – (GA, GWW) – Duration, Schedule Date, Required Craft/Crew Type, Work Zones, Crew Work Group

## Fixing

- Editable fields in the table
- Go To Application
- Dialogs for related tables
- Mini Gantt for dependencies

ListScheduleCalendarQueriesWorkDependenciesResources

Schedule: 761\_SCHED761 Scheduling for GA demo dataSelected Validation Date:Last Validation Date: 7/19/20 7:52 PM

Zero Duration?Non-interruptible Work that is Longer than Shifts?Interruptible on Missing Shift?Start No Earlier Than?Finish No Later Than?Milestones?

Location Assignment?No Planned Resource?Priority?Task without Parent?Craft Quantity?Crew Type Quantity?Rotating Tool Quantity?

Validate WorkShow All Work Errors/Warnings

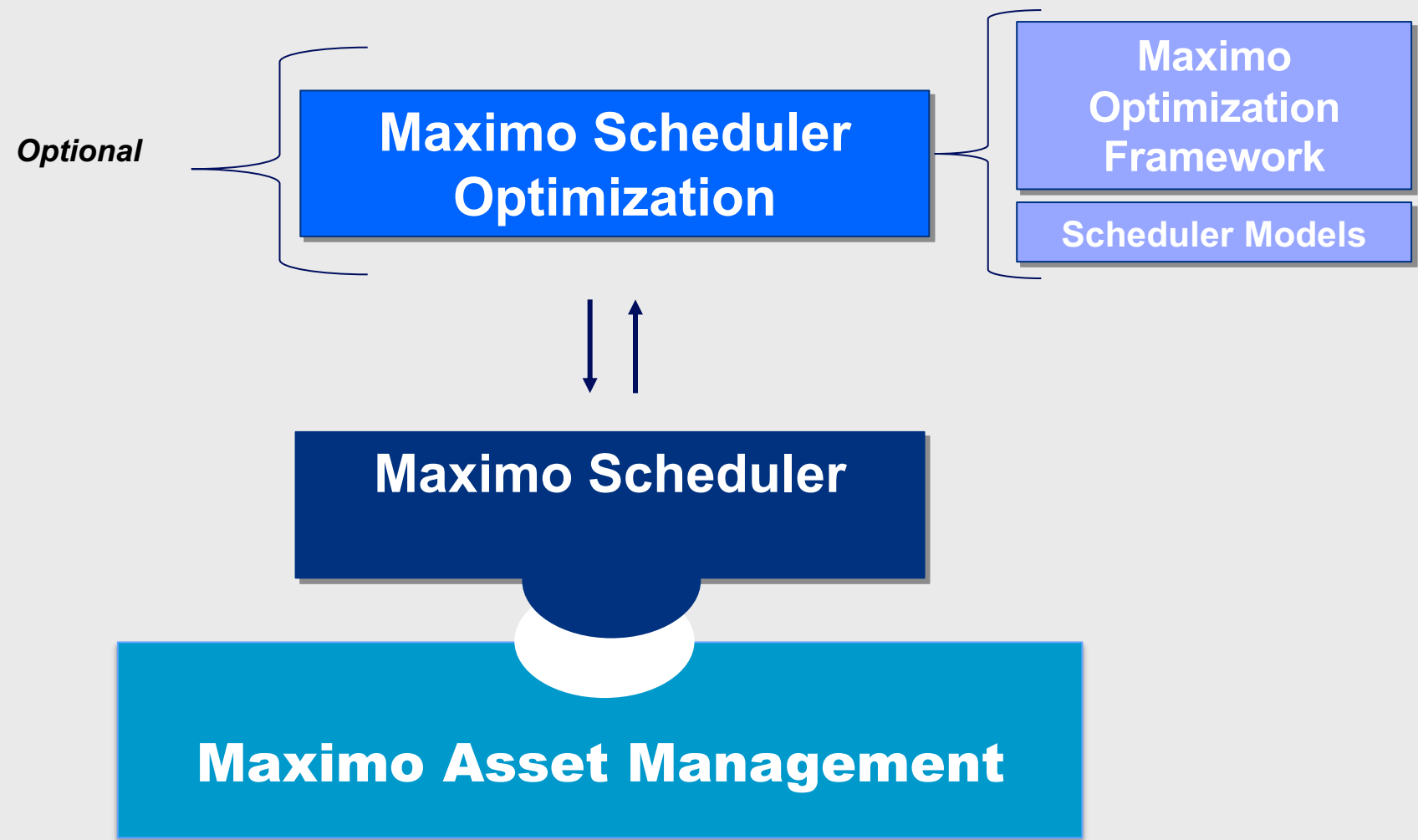
Filter By Error/Warning:Show Errors/Warnings Only?

WorkFilter

No required resources to determine Schedule dates  
Work Order must have priority  
Duration incorrect - non-interruptible task longer than shifts  
Labor should be planned at the task or WO level but not both

|                          | WO Group | Duration                                  | Start No Earlier Than | Finish No Later Than | Priority        | Interruptible? | Interruptible shift                 | Error/Warning                 |
|--------------------------|----------|---|-----------------------|----------------------|-----------------|----------------|-------------------------------------|-------------------------------|
| <input type="checkbox"/> | 761A1202 | Cabin Food Heating System replacemen      | 1:00                  | 9/14/20 7:00 AM      | 9/15/20 3:00 PM |                | <input type="checkbox"/>            | Work Order must have priority |
| <input type="checkbox"/> | 761A1205 | Engineering Job Plan 1 - no tasks - inter | 15:00                 | 9/14/20 7:00 AM      | 9/15/20 3:00 PM |                | <input checked="" type="checkbox"/> | Work Order must have priority |

# Maximo Scheduler Architecture



| Maximo Scheduler Optimization  |
|--|
| <ul style="list-style-type: none"><li>• New Optimization solution integrated with Maximo Scheduler 7.6.8. Requires separate license purchase</li><li>• Maximo Optimization Framework with embedded ILOG CPLEX Optimization Studio</li></ul>            |
| Scheduler 7.6.8  |
| <ul style="list-style-type: none"><li>• Add-on product to Maximo EAM, code embedded in core Maximo therefore a single install</li><li>• Requires a separate license purchase</li><li>• Includes integration to Maximo Optimization Framework</li></ul> |
| Maximo   |
| <ul style="list-style-type: none"><li>• 7.6.1.2 fix pack level</li></ul>   |



# IBM Maximo Scheduler Optimization 7.6.8



## Maximo Optimization Framework

- New Optimization solution
- Models available out of box
  - GS-LP (Large project scheduling)
  - GS (Capacity planning, Resource leveling)
  - GA (Labor assignment, Spatial Scheduling)
- Pre-integrated with Maximo Scheduler



## Model Extensions and Changes

- Incorporate new business constraints, objectives
- Define pre/post processes
- Model customizations
- Model deployment automation (outside of UX)



## Capabilities

- GA/GS/GS-LP models
- Dynamic report and results
- Support model customizations via OPL & Java

Welcome to  
**IBM Maximo**  
Optimization Framework

Administration Console

Username

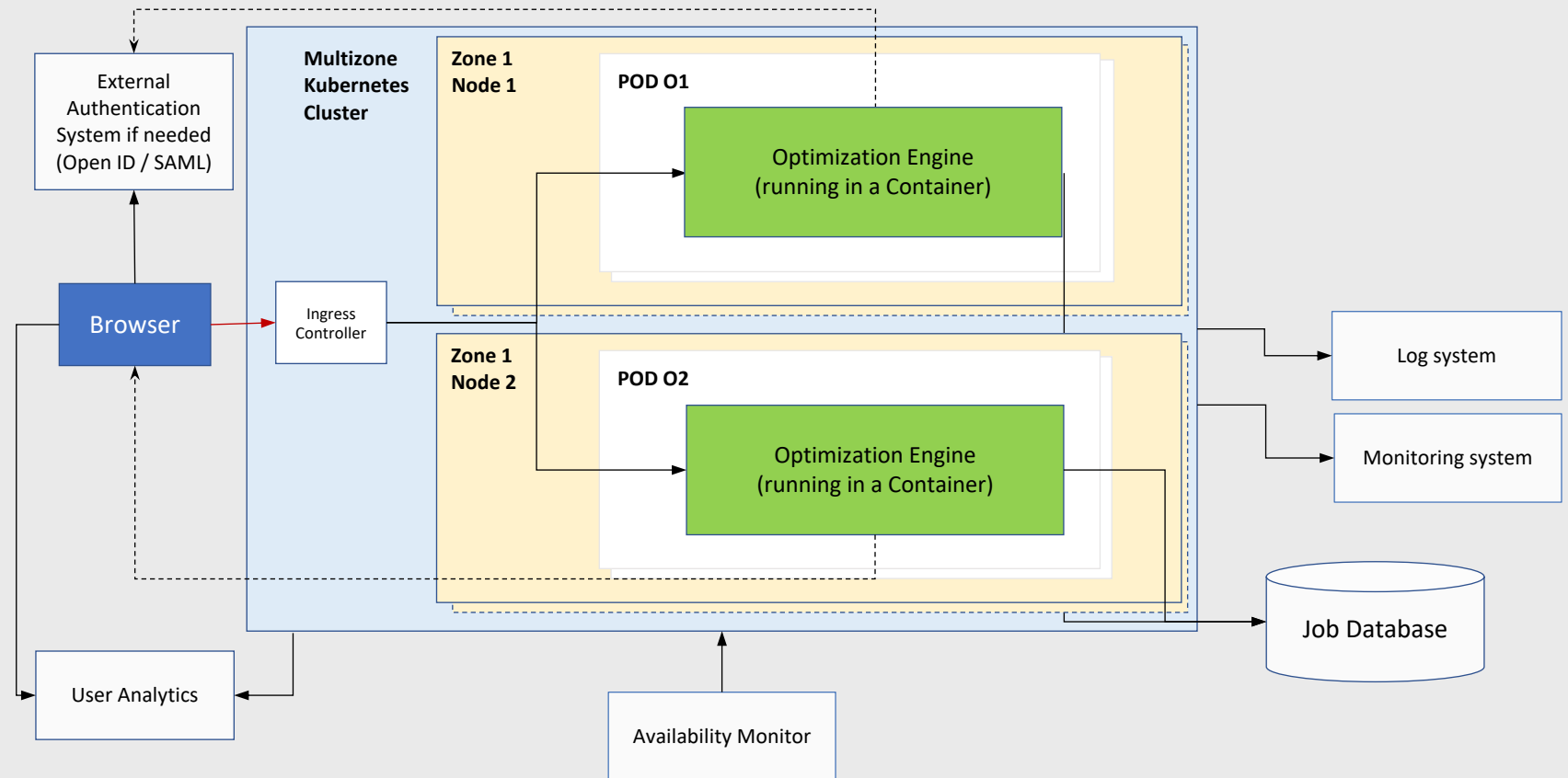
Password

Login

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# Maximo Optimization Framework Service

- Container solution
- Can be deploy on any Cloud provider
- Can run with Docker for development purpose
- Job Database can be inside of the Cluster
- Linux based container



# IBM Maximo Scheduler Optimization 7.6.8

## New API Integration with Maximo

- New System Properties

| Global Properties <span>Filter</span> <span>Search</span> <span>Filter</span> <span>Up</span> <span>Down</span> <span>1 - 2 of 2</span> <span>Download</span> <span>Refresh</span> |                               |   |  |
|--|-------------------------------|---|--|
| <input type="checkbox"/>   | Property Name                 | Description                             | Current Value  |
| <input type="checkbox"/>   | <u>optimization.mofapi</u>    |   |  |
| <input type="checkbox"/>   | > optimization.mofapi.apikey  | API key for Maintenance Optimization Fr | 89141de3-6894-4566-8c4b-765eca859423 <span>Trash</span>    |
| <input type="checkbox"/>   | > optimization.mofapi.baseurl | Base URL for Maintenance Optimization   | http://mof.rtp.raleigh.ibm.com:9080/mof <span>Trash</span> |

## Configure our own Model on Maximo

- Already configured with default model for each Scheduler Application
- Can consume extended and new models at system and scenario level

Graphical Scheduling

Find Scenario Search Filter Refresh Up Down 0 - 0 of 0 Download Refresh

Find Navigation Item

Go To Applications

Available Queries

All Records

All Bookmarks

Common Actions

+ New Schedule

⚙ Change Status

⚙ Configure Optimization Model

View Optimization Processes

View Scheduled Optimization Process...

Attachment Library/Folders

Create Schedule from Graphical Sche...

Run Reports

Schedule Dashboard

Show Print Jobs

Advanced Search Save Query Bookmarks

Schedules Filter Search Filter Refresh Up Down 0 - 0 of 0 Download Refresh

| Schedule | Scenario | Description | Type | Status |
|----------|----------|-------------|------|--------|
|----------|----------|-------------|------|--------|

Configure Optimization Model

By default, the Optimization Model is configured to use the GS for Graphical Scheduling application, GA for Graphical Assignment application, and GSLP for the Graphical Scheduling - Large Project application. Here you can change the Optimization Model Description, Model, Model Version, and Model Type. That information should match to the available Model at the Optimization service. In order to use the Optimization Service the Optimization API Key and URL need to be set in System Properties.

Optimization Model Parameters Filter Search Filter Refresh Up Down 1 - 3 of 3 Download Refresh

| <input type="checkbox"/> | Description                               | Model       | Model Version | Model Type |
|--------------------------|---|-------------|---------------|------------|
| <input type="checkbox"/> | > <u>Scheduling - Large Project Model</u> | <u>GSLP</u> | 1             | java       |
| <input type="checkbox"/> | > Assignment Model                        | GA          | 1             | java       |
| <input type="checkbox"/> | > Scheduling Model                        | GS          | 1             | java       |

Ok Cancel



# IBM Maximo Scheduler Optimization 7.6.8

## New Optimization Framework

- Maximo Optimization Framework
  - Support Multiple Jobs
    - Process coming from Maximo
    - Jobs created directly on console

Support a deploy of extensions to existing models and new models

Include CPLEX Studio for changes and creation

Easy to diagnostic and get results

IBM Maximo Optimization Framework

Jobs

Models

Projects

Jobs

🔍 ⬇

New Job

Refresh

| <input type="checkbox"/>   | Job Id                   | Project           | Model               | Job Status  | Created At          | Solve Status     |   |
|----------------------------|--------------------------|-------------------|---------------------|-------------|---------------------|------------------|---|
| ▼ <input type="checkbox"/> | 5f18905c6a9d47000123dfaf | Maximo GS/GA/GSLP | GA                  | PROCESSED   | 2020-07-22 16:15:40 | OPTIMAL_SOLUTION | ⋮ |
| ▼ <input type="checkbox"/> | 5f188cbe6a9d47000123dfac | Maximo GS/GA/GSLP | GA                  | PROCESSED   | 2020-07-22 16:00:14 | OPTI             | ⋮ |
| ▼ <input type="checkbox"/> | 5f188c936a9d47000123dfa9 | Maximo GS/GA/GSLP | GA                  | PROCESSED   | 2020-07-22 15:59:31 | OPTI             | ⋮ |
| ▼ <input type="checkbox"/> | 5f188c266a9d47000123dfa6 | Maximo GS/GA/GSLP | GA Sample extension | INTERRUPTED | 2020-07-22 15:57:42 | NO_SOLUTION      | ⋮ |

Download Scenario

Download Solution

Download Zipped ...

Download Log

# IBM Maximo Scheduler Optimization 7.6.8

## Maximo Optimization Framework

- Support Multiple Models
  - Application oriented
  - Offer Extension
  - Deploy a new Model

Manage Model Artifacts

Project

Maximo GS/GA/GSLP

Model Name

GA

Description

Graphical Assignm

Version

1

Model Type

JAVA

Class Name

ibm.maximo.optimization.scheduler.GASchedul

Current Artifacts

Upload Artifact

File

Type

No artifacts exist

Cancel

Save

IBM Maximo Optimization Framework

Jobs

Models

Projects

Models

New Model

Refresh

|   | Project                                    | Model Id                 | Model                      | Version | Type | Description                                       |   |
|---|--|--------------------------|----------------------------|---------|------|---|---|
| ▼ | <input type="checkbox"/> Maximo GS/GA/GSLP | 5f04dcd5a7b11b0001ad2a7e | GA                         | 1       | JAVA | Graphical Assignment model                        | ⋮ |
| ▼ | <input type="checkbox"/> Maximo GS/GA/GSLP | 5f04dd3ba7b11b0001ad2a7f | GS                         | 1       | JAVA | Graph model                                       | ⋮ |
| ▼ | <input type="checkbox"/> Maximo GS/GA/GSLP | 5f04dd68a7b11b0001ad2a80 | GSLP                       | 1       | JAVA | Graphical Scheduler Large Project model           | ⋮ |
| ▼ | <input type="checkbox"/> Maximo GS/GA/GSLP | 5f1167986a9d47000123dea7 | GA Sample extension        | 1       | JAVA | java extension with a new java model extending GA | ⋮ |
| ▼ | <input type="checkbox"/> Maximo GS/GA/GSLP | 5f118bb36a9d47000123deaa | Simulator Weekly Scheduler | 1       | JAVA | Simulator Weekly Scheduler                        | ⋮ |
| ▼ | <input type="checkbox"/> Maximo GS/GA/GSLP | 5f1510716a9d47000123df49 | OPL GA                     | 1       | OPL  | opl sample  | ⋮ |

Modify Model

Manage Artifacts

# IBM Maximo Scheduler Optimization 7.6.8

## Maximo Optimization Framework

- Support Multiple Projects
- Each API KEY
- Rest URL for setup on Maximo side

IBM Maximo Optimization Framework

Jobs

Models

Projects

Projects

New Project

Refresh

|   | Project Id               | Project                  | Description       | API Key                              |                                      |
|---|--------------------------|--------------------------|-------------------|--------------------------------------|--------------------------------------|
| ▼ | <input type="checkbox"/> | 5f04dcafa7b11b0001ad2a7d | Maximo GS/GA/GSLP | Maximo Scheduler Optimization Models | 89141de3-6894-4566-8c4b-765eca859423 |

Optimization Framework Rest URL

http://mof.rtp.raleigh.ibm.com:9080/mof

⋮

Modify Project

Generate New AP...



# IBM Maximo Scheduler UX and Misc 7.6.8



## Graphical UX

- New theme in graphical apps
- New colors
- New icons, buttons
- Inline editing
- System properties



## Run-ats: numerous feature improvements

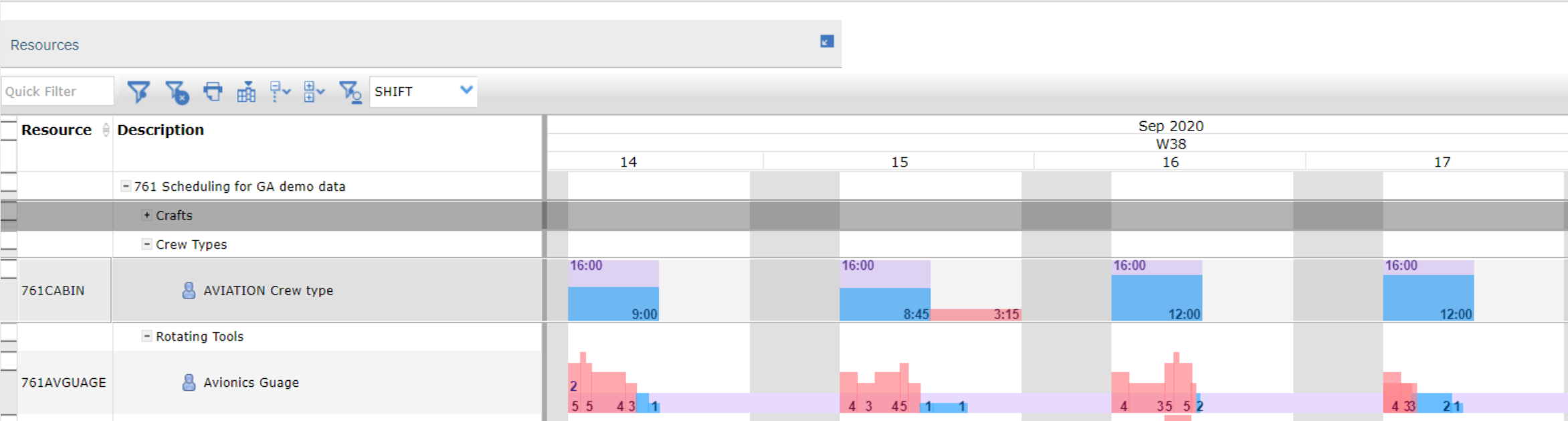
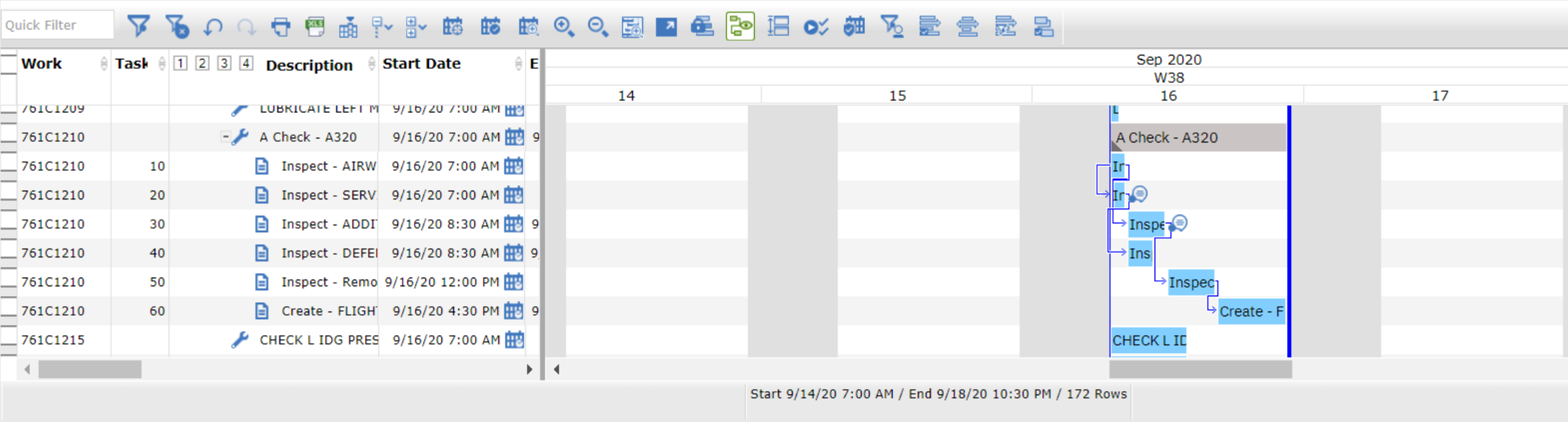
- Calendar exports
- Assignment reports
- Compliance revamp
- Many RFE's!



## Security and Performance

- Scan tasks completed
- Vulnerabilities found and fixed
- Old applet code removed
- Numerous performance tests

# Graphical Theme



# In-line Editing

Adding to existing Start/End and Physical % complete... you can edit more fields directly in the table. Target dates, Priority, SNE/FNL, Interruptible, and Interruptible shift – done in Airbus interim release. Full 7.6.8 list now also includes Duration (lowest level), Description, Milestone

GS and GS-LP only.

Related – Interruptible and Interruptible Shift new in GS-LP Work Details.

Quick Filter

| Finish No Later Than | Interruptible                       | Interruptible Shift            | Repair                              |
|----------------------|-------------------------------------|--------------------------------|-------------------------------------|
|                      |                                     |                                |                                     |
| 9/17/20 3:00 PM      | <input type="checkbox"/>            |                                | <input checked="" type="checkbox"/> |
| 9/19/20 12:00 PM     | <input type="checkbox"/>            |                                | <input checked="" type="checkbox"/> |
| 9/19/20 12:00 PM     | <input checked="" type="checkbox"/> |                                | <input checked="" type="checkbox"/> |
| 9/19/20 12:00 PM     | <input type="checkbox"/>            | <div>▶ EVENING<br/>▶ DAY</div> | <input checked="" type="checkbox"/> |
| 9/19/20 12:00 PM     | <input type="checkbox"/>            |                                | <input checked="" type="checkbox"/> |
| 9/19/20 12:00 PM     | <input type="checkbox"/>            |                                | <input checked="" type="checkbox"/> |
| 9/19/20 12:00 PM     | <input type="checkbox"/>            |                                | <input checked="" type="checkbox"/> |
| 9/19/20 12:00 PM     | <input type="checkbox"/>            |                                | <input checked="" type="checkbox"/> |
| 9/26/20 3:00 PM      | <input type="checkbox"/>            |                                | <input checked="" type="checkbox"/> |

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# Calendar Export

## Multiple RFE vote-getter

Preps and sends comm template to current assignee role(s) in GA, GWW

Or creates file download .ics

Assignment data loads user's calendar e.g. Outlook

August 2020

Washington, D.C.

Today 94° F / 81° F
 Tomorrow 95° F / 80° F
 Thursday 93° F / 78° F

| MONDAY   | TUESDAY   | WEDNESDAY | THURSDAY  | FRIDAY |
|--|---|-----------|---|--------|
| 27   | 28  | 29        | 30  | 31     |
| 3  | 4   | 5         | 6   | 7      |
| <div>10</div> <div> <div>3:19am SCHD1153 Install Transfer Ta...</div> <div>4:39am SCHD1174 Carpentry Installati...</div> <div>7:15am SCHE1184 Fabrication Liners; ...</div> </div> | <div>11</div> <div> <div>3:15am SCHB1215 Electrical Installatio...</div> <div>7:17am SCHE1175 Line Inspection; bri...</div> <div>8:02am SCHC1175 Line Inspection; bri...</div> </div> | 12        | <div>13</div> <div> <div>3:00am SCHC1174 Carpentry Installation; brianjdowney@hotmail.com</div> <div>4:30am SCHE1174 Carpentry Installati...</div> </div> | 14     |
| 17   | 18  | 19        | 20  | 21     |

# Compliance and Rolling

Several customer issues led us to revamp Compliance and its interaction with Rolling schedules

Rolling was introduced after Compliance but not completely integrated, though having similarities

- Both had frequencies (in fact, shared an attribute – but lookups had different data types)
- If not careful in the work flow of steps, they complicated each other

## Fixes

- Rolling Frequency now has its own attribute – `skdproject.rolldateschedule`
- New flag, roll before compliance start – does a Roll with compliance start, turns Roll cron r/o
- New flag, refresh before compliance finish – does a refresh with compliance end, making sure the data is the very latest to be used for the compliance calculations.

# Compliance and Rolling

If a schedule is Rolling

Schedule

Graphical View

Compare Scenarios

Cost and Usage

Compliance

Information

61\_SCHED

>

761 Scheduling for GA demo data

Type: WORK

Rolling Project?

☒

61\_SCHED

Status: DRAFT

Rolling Frequency: 1w,0,0,0,\*,\*,\*,\*,\*,\*

AY

>

Top Level Work Records Only?

☐

Duration In Days: 5

You can enable the new Compliance flags

Compliance

Duration: 1

Duration Units: WEEKS

Cron Active?

☒

Schedule Frequency: 1w,0,0,5,\*,\*,\*,\*,\*,\*

Roll Before Start?

☒

Refresh Before Finish?

☒

Include Closed Work Records?

☒

Include Cancelled Work Records?

☒

Skdproject.compstartroll

Skdproject.compfinishrefresh

Which deactivates the Roll cron – now the Compliance schedule is managing the work flow steps of Roll, Start Compliance, Refresh, Finish Compliance on one consistent schedule. Takes the guesswork out of manually synchronizing crons and actions.

# BIRT Assignment Reports

Existed in core, but had not been updated; were buggy; and did not have a crew monthly view

Frequently requested item

Revamped and now have Labor/Crew in Daily/Monthly format from GA, GWW

Reporting

Page 1 of 1

Graphical Assignment Crew Monthly Format

Work List:  
Crew: **SCHOHL1**  
Month: **AUGUST**  
Year: **2020**

| Sunday | Monday  | Tuesday   | Wednesday   | Thursday |
|--------|---|---|---|----------|
|        |   |   |   |          |
| 2      | 3   | 4   | 5   |          |
|        |   |   |   |          |
| 9      | 10<br>9:42 AM SCHB1163 Install Lay-down Drip Tray<br>7:00 AM SCHB1208 Smart Meter Installation<br>8:27 AM SCHB1159 Install Manual Grapples<br>7:15 AM SCHB1208 Smart Meter Installation<br>12:45 PM SCHE1206 Service Building | 11<br>11:17 AM SCHB1153 Install Transfer Table<br>1:17 PM SCHB1297 Electric Panels<br>9:15 AM SCHD1206 Service Building<br>7:15 AM SCHB1222 Repair Pneumatic Grapples | 12<br>7:17 AM SCHB1161 Install Inspection Telescope |          |
| 16     | 17  | 18  | 19  |          |
|        |   |   |   |          |
| 23     | 24  | 25  | 26  |          |
|        |   |   |   |          |
| 30     | 31  |   |   |          |
|        |   |   |   |          |



# V768 Changes to Parts Licensing & Mapping to Capabilities

## PRE JUL 24 2020

Existing Maximo Asset Management Scheduler Parts

Existing Maximo Asset Management Scheduler Plus Parts

Existing Maximo Graphical Appointment Book for Scheduler Plus Parts

Graphical Scheduling, Graphical Assignment, Graphical Assignment – Repair Facility, Graphical Crew Management (Applications); Mobile Templates + Legacy ILOG Optimization Models & Technology

Graphical Scheduling - Large Projects; Dynamic Dispatching; Graphical Appointment Booking; Weather Data Integration

Customer Service Rep use only of Graphical Appt Booking

## FROM JUL 24 2020

**Existing** Maximo Asset Management Scheduler Parts

**NEW** Maximo Scheduler Optimization Parts

Graphical Scheduling, Graphical Assignment, Graphical Assignment – Repair Facility, Graphical Crew Management Graphical Scheduling - Large Projects; Dynamic Dispatching; Graphical Appointment Booking; Weather Data Integration (Applications)

New & Upgraded Optimization Models & New Optimization Technology – Maximo Optimization Framework with embedded ILOG CPLEX Optimization Studio

Withdrawal of Scheduler Plus & Gr Appt Booking parts Announced Jul 21. End of Marketing for – new sales (Oct 22) and renewals (Dec 18). End of Support for Scheduler Plus v7.6.7.X is Sep 2024

# Resources

**Maximo Scheduler Community: (join community to view all details)**

<https://community.ibm.com/community/user/communities/community-home?communitykey=60718772-c63c-4d74-bdad-56d8beac4ba3&tab=groupdetails>

**RFE Tool:**

[https://www.ibm.com/developerworks/rfe/?BRAND\\_ID=90](https://www.ibm.com/developerworks/rfe/?BRAND_ID=90)

# Thank you

