MWEngineeringChange 5.0.0

BEHAVIOR CHANGES	2
API Update	
Group Review Approve Button	
IR/ECN Last Check-In Verification	
ENHANCEMENTS	3
Workflow Dashboard	
Global Options	10
UI Improvement	
Updating Properties When Generating an Attachment	
Standalone Users and Attachments	
Excluding ECOs from Notifications	
Reject Only Roles	
EC Search Tool	
Search By Missing Group Review Signatures	
Search in RLMDs	
Search Using Variables	
Idle Time in Search Results	
Other	
Date Time Format in Actions	
Attachment Folder Per Data Card	
RLMD Incorporation Prompt Improvements	
Reset Windows Tool	22
BUG FIXES	23

BEHAVIOR CHANGES

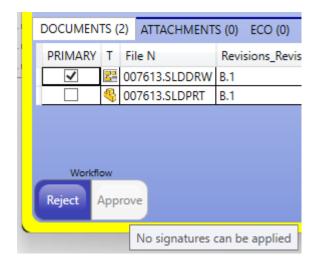
API Update

Starting with R23 SP1.4, a new API called "GetSortedUIDListForProcessing" was released for MechWorks PDM. This API processes a list of UNIQUE_IDs passed in random order. The API passes back the same list in order for life cycling (walking <u>up</u> the assembly's structure). In short, "GetSortedUIDListForProcessing" allows approving documents in the correct order without using the Working Set API calls. Due to the use of Working Set API calls, approving IR or ECNs with more than one linked group was not allowed from the Task Manager.

The MWEngineeringChange tool checks the build of MechWorks PDM. If the build is older than R23 SP1.4, it will continue to use the Working Set API when approving documents. If the build is R23 SP1.4 or newer, the MWEngineeringChange tool will use the new "GetSortedUIDListForProcessing" API along with the standard "IncrementRevisionState" API to approve documents in order – making multiple linked groups compatible with the Task Manager.

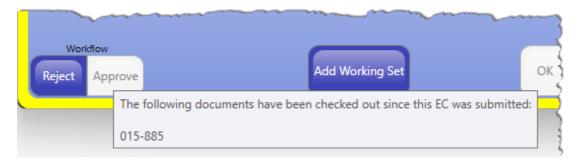
Group Review Approve Button

If no signatures can be applied, the Approve button is disabled and displays a tooltip:



IR/ECN Last Check-In Verification

When an IR or ECN in workflow loads, the approval button will check that none of the documents have a LAST_CHECK_IN_DATE value that is newer than the WF_SUBMITTED_DATE. In other words, it verifies that no documents were somehow checked out and checked back in since the IR/ECN was submitted to workflow. If a document does have a more recent check-in date, the approval is not allowed:



August-2024 Page 2 | 23

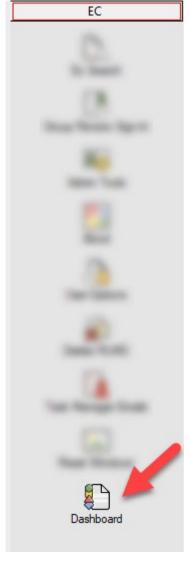
ENHANCEMENTS

Workflow Dashboard

Workflow Dashboard

NOTE: The Workflow Dashboard requires some configuration before use. See the separate documentation regarding configuring the Workflow Dashboard for first time use.

The EC shortcut bar includes a new "Dashboard" for administrators:



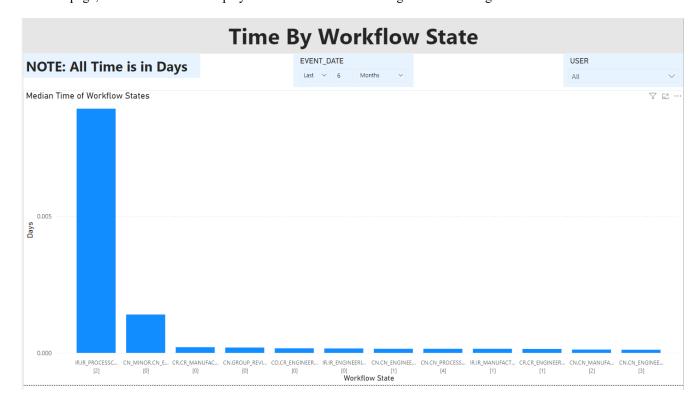
This "Workflow Dashboard" is a Power BI file displaying several reports regarding workflow. Power BI is a Microsoft application (available in the Microsoft APP store) for data visualization and reports. Similar to Excel, Power BI files are sorted into pages using tabs at the bottom of the interface:



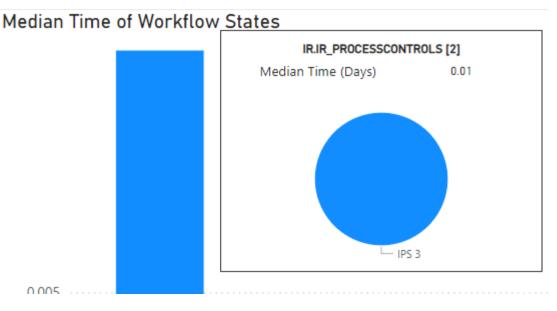
Each page/report is documented below.

August-2024 Page 3 | 23

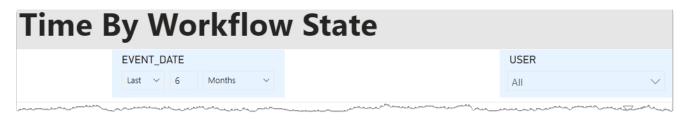
The first page, "Workflow States" displays information about how long items are sitting in each workflow state:



The graph displays each workflow state, organized from left to right, with the states taking the longest on the left. Hovering over a particular state will display further information about that state, including the median time items are sitting in that state, as well as the users who approved from that state:



At the top of the page, administrators can filter the report for a given timespan or user group as desired:

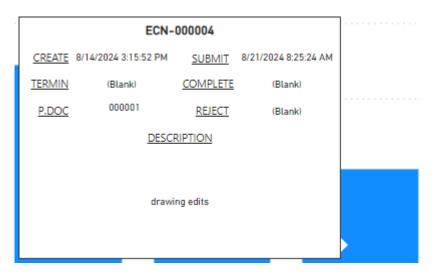


August - 2024 Page 4 | 23

The second page, "In Workflow", displays information about EC records currently in workflow:



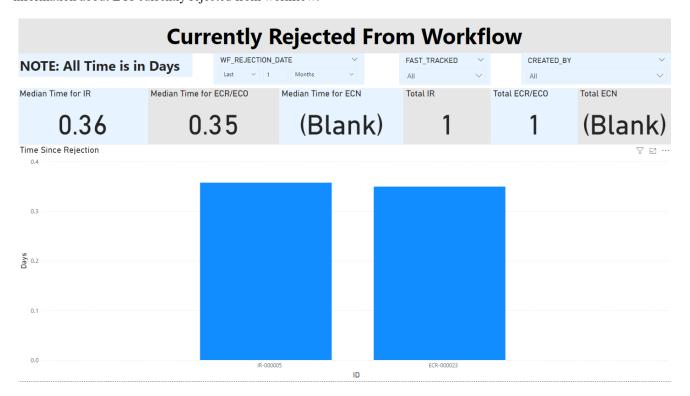
The graph at the bottom of the page displays each EC record currently in workflow, ordered from left to right based on how long since the EC record was submitted to workflow. Hovering over an EC record displays further information about that record, including when it was created and submitted, as well as the primary document and description:



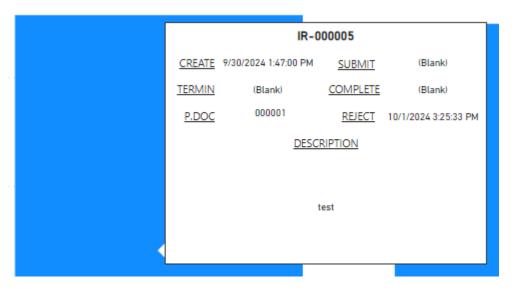
The top of the page includes filters for time since submission, fast tracked status, and submitted by user. It also includes information about the median time each type EC has been in workflow, as well as a count of the total number of each type of EC currently in workflow.

August-2024 Page 5 | 23

The third page, "Rejected", is very similar to the "In Workflow" page. Rather than displaying ECs in workflow, it displays information about ECs currently rejected from workflow:



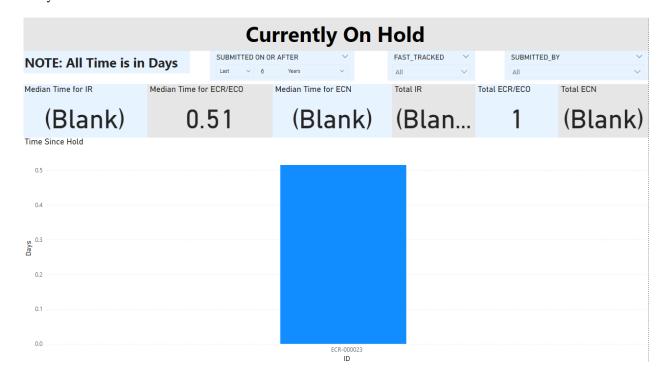
The graph at the bottom of the page displays each EC record currently rejected from workflow, ordered from left to right based on how long since the EC record was rejected from workflow. Hovering over an EC record displays further information about that record, including when it was rejected, as well as the primary document and description:



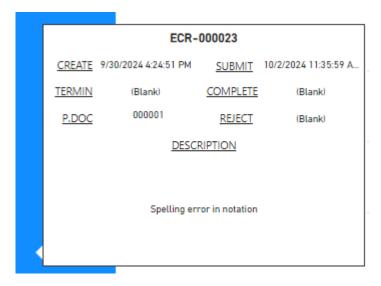
The top of the page includes filters for time since rejection, fast tracked status, and created by user. It also includes information about the median time since each type of EC has been rejected from workflow, as well as a count of the total number of each type of EC currently rejected from workflow.

August - 2024 Page 6 | 23

The fourth page, "On Hold", is very similar to the "In Workflow" and "Rejected" pages. It displays information about ECs currently on hold in workflow:



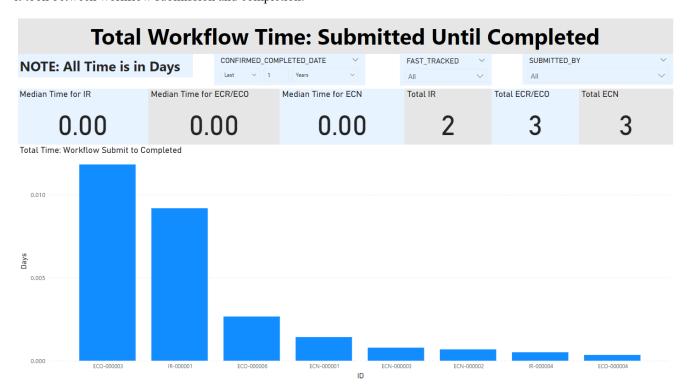
The graph at the bottom of the page displays each EC record currently on hold, ordered from left to right based on how long since the EC record was placed on hold. Hovering over an EC record displays further information about that record, including when it was created and submitted, as well as the primary document and description:



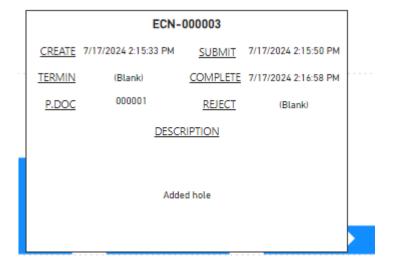
The top of the page includes filters for time since submission, fast tracked status, and submitted by user. It also includes information about the median time since each type of EC has been placed on hold, as well as a count of the total number of each type of EC currently on hold.

August-2024 Page 7 | 23

The fifth page, "Completed", displays information about EC records which have been completed, specifically the total time it took between workflow submission and completion:



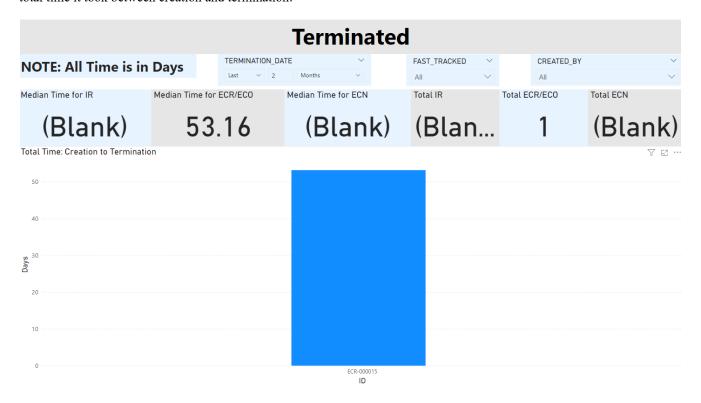
The graph at the bottom of the page displays each completed EC record, ordered from left to right based on the amount of time between workflow submission and completion. Hovering over an EC record displays further information about that record, including when it was submitted and completed, as well as the primary document and description:



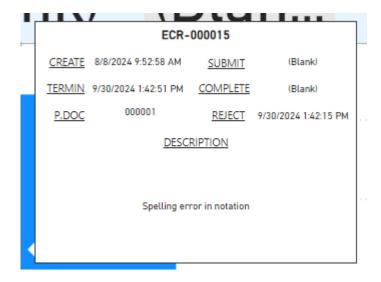
The top of the page includes filters for time since completion, fast tracked status, and submitted by user. It also includes information about the median time for each type of EC, as well as a count of the total number of each type of completed EC record.

August - 2024 Page 8 | 23

The sixth and last page, "Terminated", displays information about EC records which have been terminated, specifically the total time it took between creation and termination:



The graph at the bottom of the page displays each terminated EC record, ordered from left to right based on the amount of time between creation and termination. Hovering over an EC record displays further information about that record, including when it was created and terminated, as well as the primary document and description:



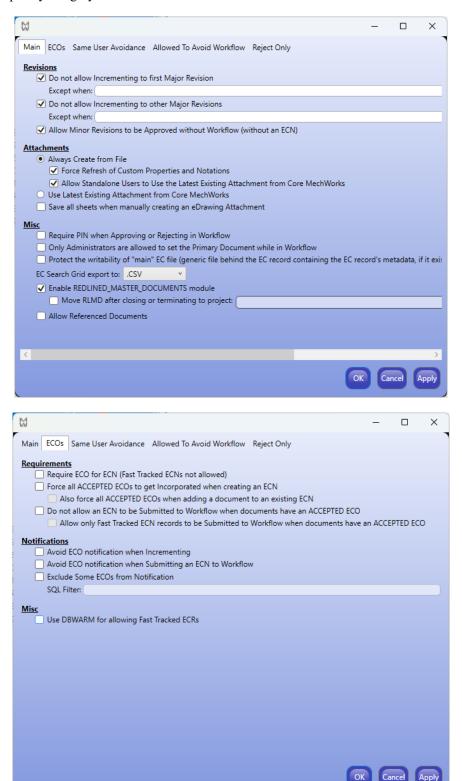
The top of the page includes filters for time since termination, fast tracked status, and created by user. It also includes information about the median time for each type of EC, as well as a count of the total number of each type of terminated EC record.

August-2024 Page 9 | 23

Global Options

UI Improvement

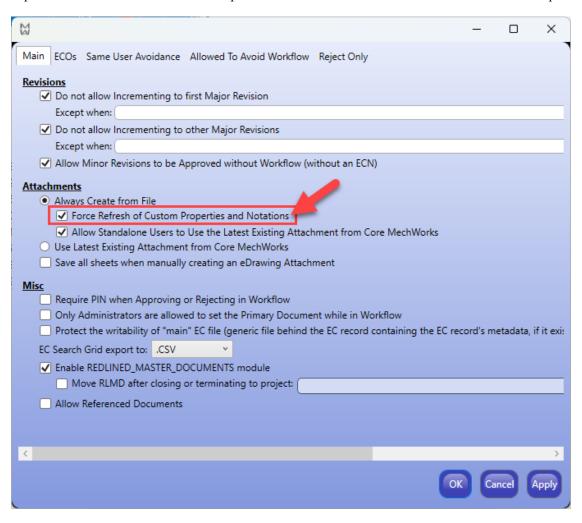
The user interface for the Global Options has been improved. ECO options have been moved to a separate tab, and options have been grouped by category:



August-2024 Page 10 | 23

Updating Properties When Generating an Attachment

A new option to "Force Refresh of Custom Properties and Notations" has been added to the Attachments options:

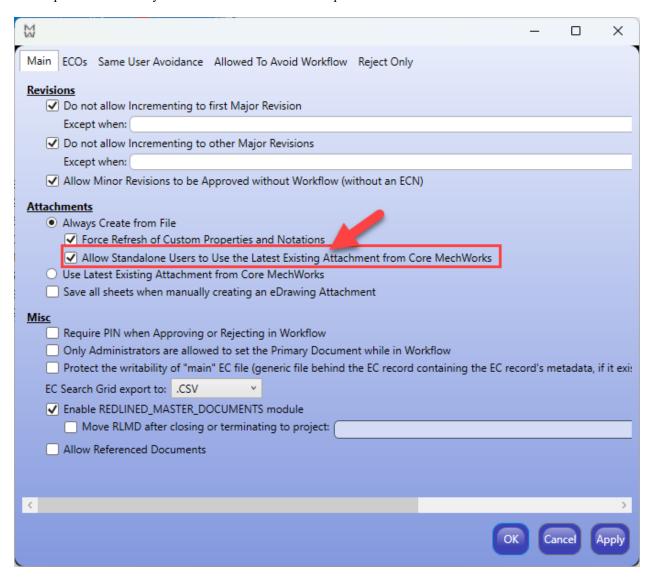


If enabled, the custom properties and notations will always be refreshed before creating an attachment file.

August-2024 Page 11 | 23

Standalone Users and Attachments

A new option to "Allow Standalone Users to Use the Latest Existing Attachments from Core MechWorks" has been added as a sub-option to the "Always Create from File" attachment option:

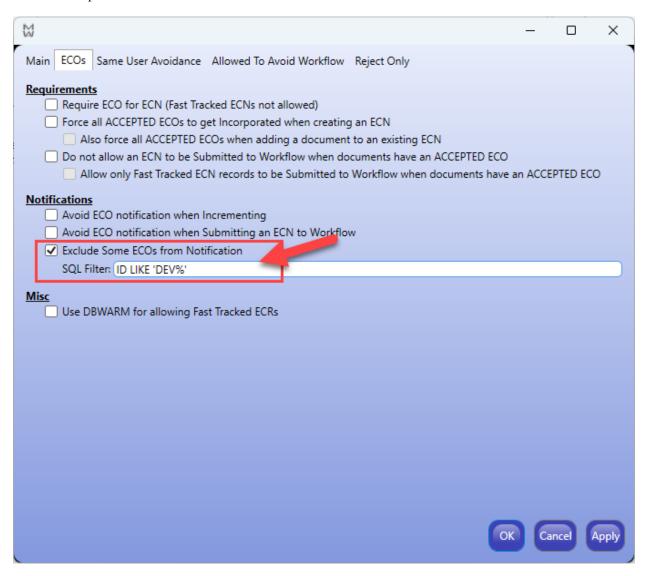


If disabled (default), Standalone users cannot generate attachments. If enabled, Standalone users will generate attachments by copying the latest existing attachment. (Integrated users will continue to generate attachments by opening the document and saving as the attachment type.)

August - 2024 Page 12 | 23

Excluding ECOs from Notification

A new ECO option to "Exclude Some ECOs from Notification" has been created:

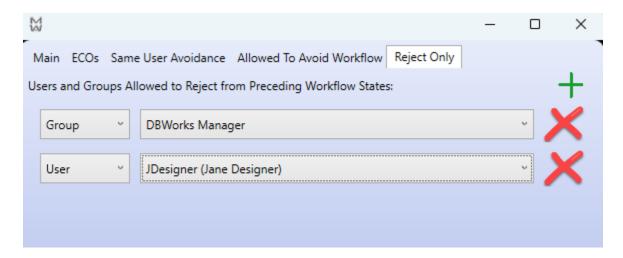


This option allows administrators to exclude specific ECOs from both notification dialogs. This includes the dialog that is displayed when incrementing the revision of a document, as well as the dialog that displays when creating a new ECN.

August - 2024 Page 13 | 23

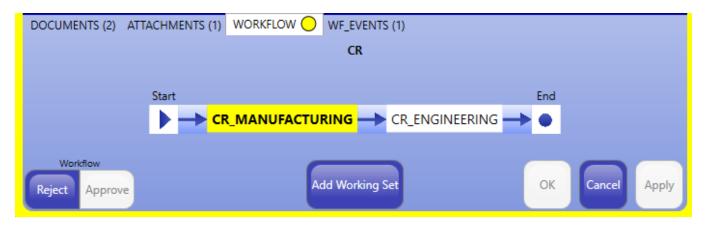
Reject Only Roles

A new tab has been added to the global options to allow administrators to define specific users and groups as "reject only" users:



Users designated "reject only" are allowed to reject from workflow states previous to a workflow state the user is assigned to.

For example, in the following image, the user is assigned to the "CR_ENGINEERING" state, but not the "CR_MANUFACTURING" state. Because this user is designated a "reject only" user, they are allowed to reject from "CR_MANUFACTURING":



August - 2024 Page 14 | 23

EC Search Tool

Search By Missing Group Review Signatures

If an environment uses any "Group Review" states, a new tab is available in the Advanced Search page:



In the above example, searching will return any EC records currently in the GROUP_REVIEW state, but missing the Quality Control signature.

August - 2024 Page 15 | 23

Search in RLMDs

If an environment uses Red-Lined Master Documents, the Advanced Page of the EC Search tool now allows for easily searching against these RLMDs:



For example, in the above image, the EC Search tool will search for any EC records which have Red-Line Master Documents currently "In Progress".

August-2024 Page 16 | 23

Search Using Variables

The EC Search tool now allows searching using the same variables used in Action emails. For example:

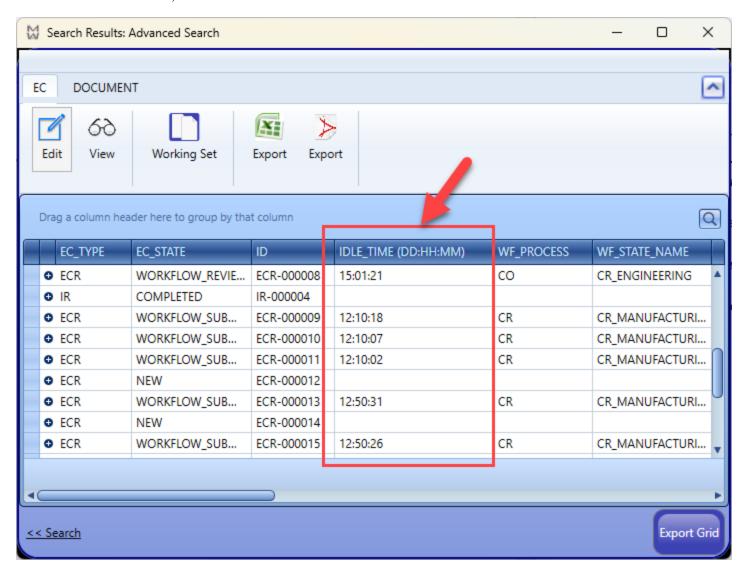


The above search will return any EC records where the ACCEPTED_BY value is equal to the current user's initials. Using variables in this way can be especially helpful when creating saved searches or favorite searches meant to be used by multiple users. Administrators cannot hard-code these user values into the search, as the value will be different per user. Instead, these variables can now be used instead.

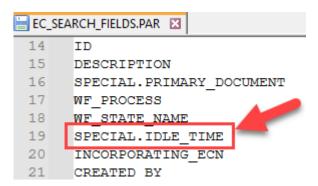
August - 2024 Page 17 | 23

Idle Time in Search Results

The search results can now include information about how long items in workflow have been idle (the time passed since the last workflow action):



NOTE: In order to see this field, you will need to add it to the following line to the "EC_SEARCH_FIELDS.PAR" file (located in the DBWORKS_SERVER\PAR\MW_ENGINEERING CHANGE folder):

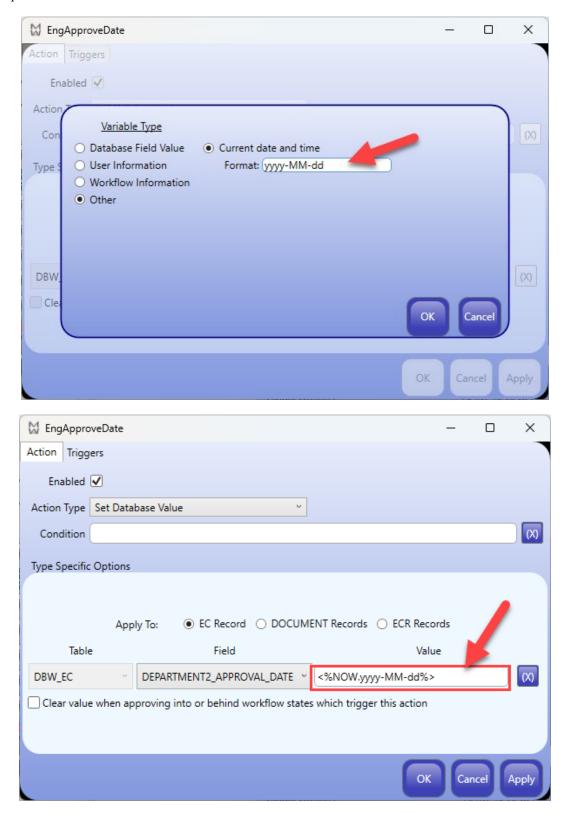


August-2024 Page 18 | 23

Other

Date Time Format in Actions

When configuring an Action to add a datetime stamp to a field, administrators can now format the datetime value. For example:

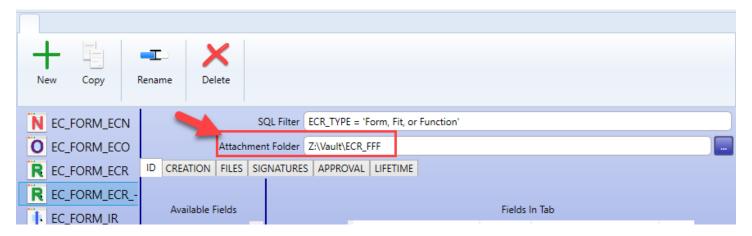


The date will now be entered into the DEPARTMENT1_APPROVAL_DATE field in yyyy-MM-dd format.

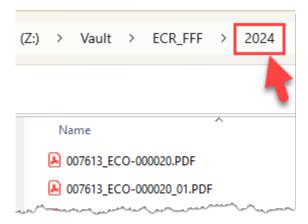
August-2024 Page 19 | 23

Attachment Folder Per Data Card

Each data card now allows defining a specific folder for attachments:



Attachments will still be sorted into sub-folders by year:

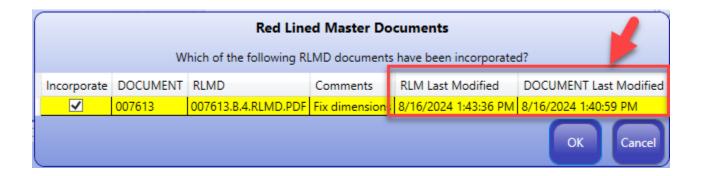


NOTE: Any data cards without a defined attachment folder will continue to use the folder defined by the format type's options.

August-2024 Page 20 | 23

RLMD Incorporation Prompt Improvements

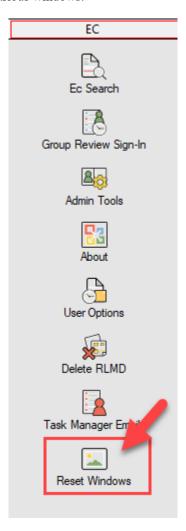
In the prompt to incorporate Red-Lined Master Documents, file last modified data has been added. Additionally, any RLDM that has a more recent modified date than the main document will be highlighted in yellow to bring the RLMD to the attention of the user:



August - 2024 Page 21 | 23

Reset Windows Tool

A new tool has been added to reset the various windows:



By default, the MWEngineeringChange tool remembers the location and size of a window when it is closed. The next time the user opens the window, it opens in the same place at the same size. Most of the time, this improves user experience, but occasionally, this behavior is not desired. For example, if the user switches to a much smaller screen, this behavior can cause the window to try to open in a location off screen. If this happens, the user can use the "Reset Windows" tool to reset the size and location of all the windows to their default settings.

August-2024 Page 22 | 23

Bug Fixes

- The email CC option (in the Action Administrative Tool) was displaying the email To option instead.
- The <%REQUIRE PROJECT MANAGER%> variable Condition was not working
- The EC Search tool would not work if there was a dash in the user's name
- If the DBW_EC.DESCRIPTION field was larger than the DOCUMENT.DESCRIPTION field, this was causing issues creating EC records
- Filters allowing only some docs to increment to major revisions was not working
- The prompt letting users know about ACCEPTED ECOs on increment was not being displayed
- When branching into a new process, the Assign Active Reviewer functionality was not working
- If an EC record had a NULL DESCRIPTION, the View EC History dialog would freeze when loading
- When the option is set to protect the writability of the "main" EC file, only .xlsm files were working correctly. Other file types were never writable.
- After modifying an action, reloading the action caused the old properties to get loaded into the dialog
- If all documents were deleted from the database, an EC would not fully open

August-2024 Page 23 | 23