

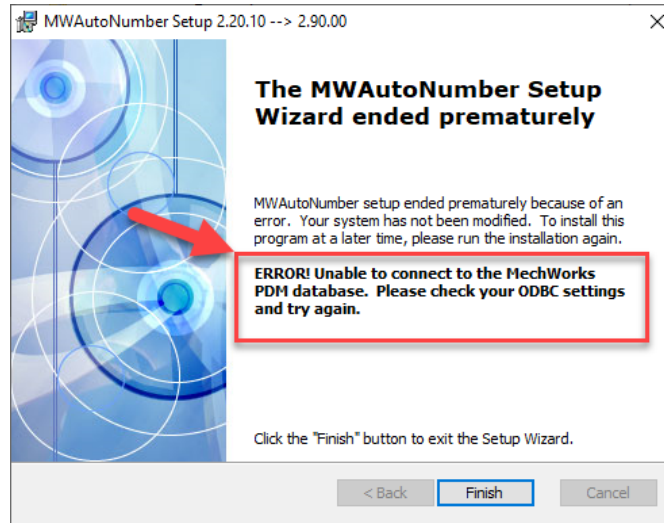
MWAutoNumber 3.0.0

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Behavior Changes

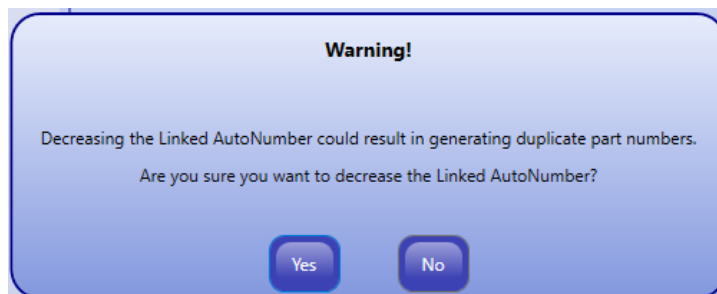
Installer warning if database not reached

Previously when installing, if the database connection could not be established, the MWAutoNumber installer would fail with a generic “installation failed” message. Now, if the database connection cannot be established, the MWAutoNumber installer displays a more informative message indicating the reason why the installer could not continue:



Linked binder numbers warning if number decreased

If the Administrator decreases the Linked Number for a binder with linked numbers, a warning is displayed indicating that decreasing the number could result in generating duplicate part numbers and confirming that the number should be decreased:



Folder creation

Starting with builds of R17 and R20 created after 7/5/2021, MechWorks PDM now creates the folder output by the DataEntr.LST script after the user selects “OK” in the Data Input Card. Due to this behavior change in MechWorks PDM, MWAutoNumber now checks the build of MechWorks PDM, and if it is newer than 7/5/2021, MWAutoNumber no longer creates the folder.

Post event values loaded in main script

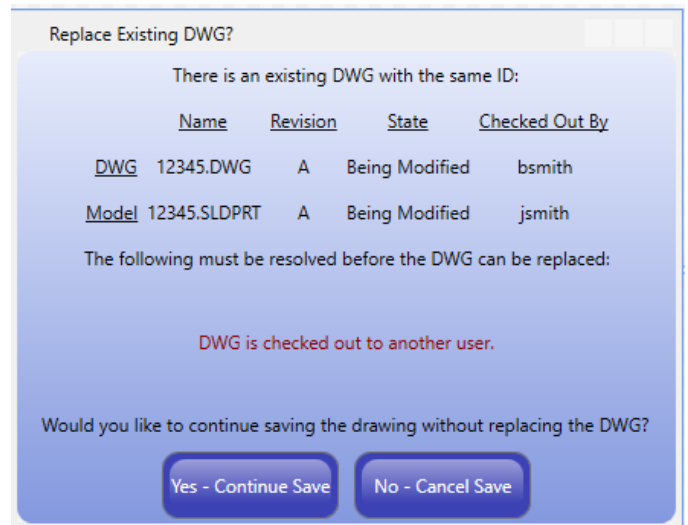
Values saved into the main variables (NewNumber, NewFileName, etc) in the DataEntr_PostEvent.LST script are now loaded into the main DataEntr.LST script. This helps the DataEntr.LST script be better compatible with changes made in the PostEvent script.

Default event scripts installed

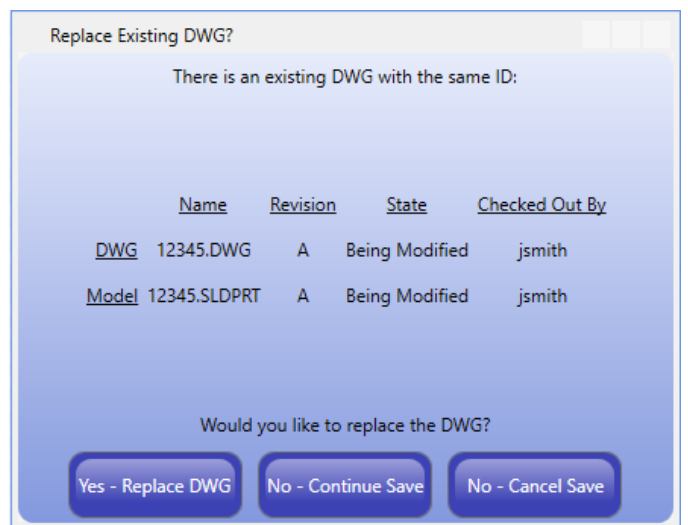
DataEntr_PostEvent.MwAutoNumberDefault and DataEntr_PreEvent.MwAutoNumberDefault scripts are now always installed during a server installation. These can be used for reference, or to restore the post event and pre event scripts to the default versions.

Replace DWG Dialog

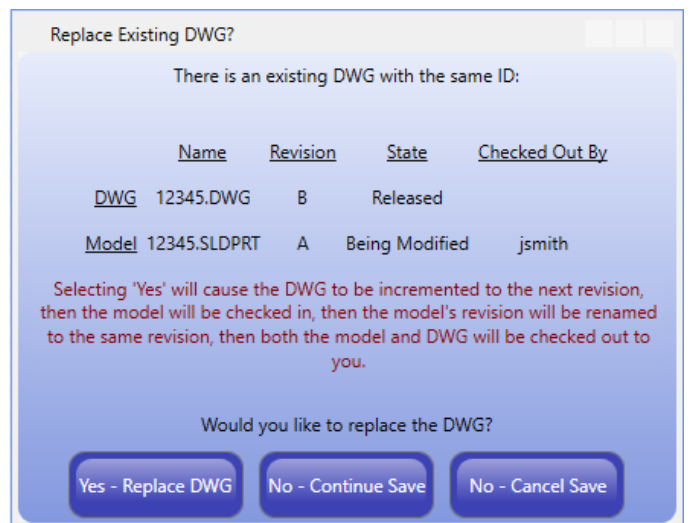
Sometimes, when the user saves a CAD drawing, there is a matching DWG that cannot be replaced. For example, if the DWG is checked out to a different user, it will be unable to be replaced. In such a case, the user will be presented with a dialog notification stating why the DWG cannot be replaced and allowing the user to cancel or continue saving without replacing the DWG.



If the DWG can be replaced, the prompt dialog has been enhanced to include more information about the DWG and model.



In the event that the model and DWG are in a different STATE or REVISION, the dialog will notify the user of the life cycle actions that will automatically be taken to get the two back in sync before the DWG is replaced.



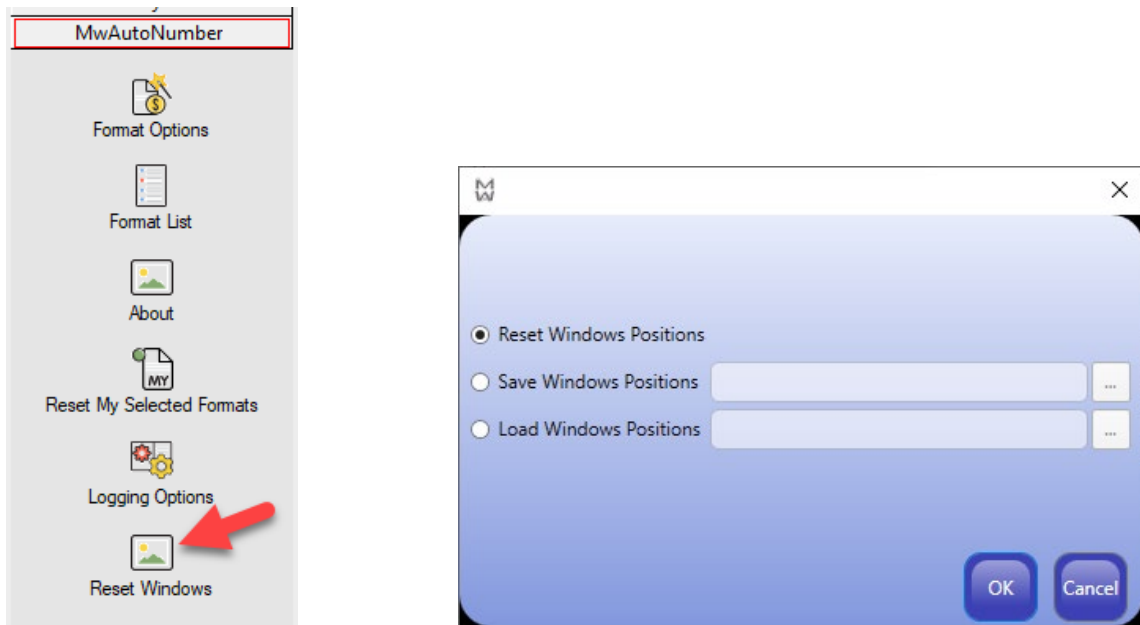
Enhancements

General

Window position saved

When closing a dialog, MWAutoNumber now records the size and position of the dialog being closed. The next time the dialog is opened, it is opened in the same position and the same size as the last time it was closed.

If the user launches MechWorks PDM on a different monitor (such as when working remotely sometimes), the Reset Windows tool can be used to reset, save, and load saved Windows positions:

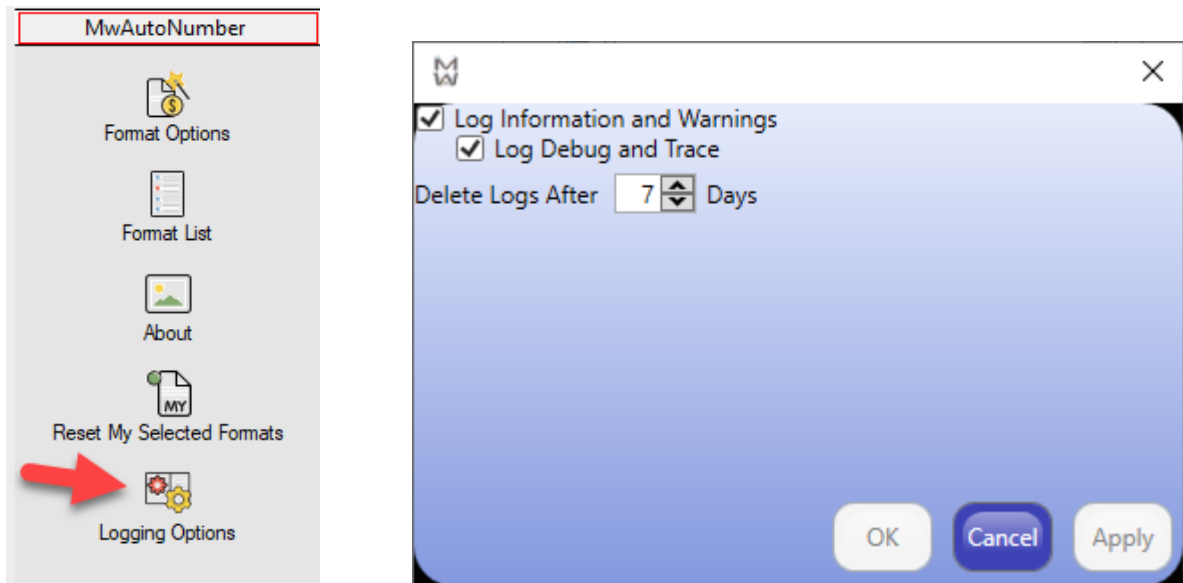


The “Reset Windows Positions” option will cause all the MWAutoNumber Windows be reset. The next time any Window is opened, it will open from the Windows default position.

The “Save Windows Positions” option will prompt the user to save the current Windows positions to a text file, and the “Load Windows Positions” option will prompt the user to retrieve the Windows positions from a previously saved file. This functionality allows the user to save and load different sets of positions per monitor. For example, a set of positions could be saved for a Office monitor, and a different set of positions could be saved for a Home monitor.

Advanced logging

Advanced logging has been added to MWAutoNumber. Advanced logging includes additional logging, as well as logging levels (errors vs trace events). The advanced logging can be enabled or disabled by each user using the new Logging Options tool:



Additionally, the Logging Options tool allows users to define how many days logs should remain in the %temp% folder before MWAutoNumber automatically deletes them.

Bat file

A new .bat file is now installed with MWAutoNumber:

OS (C:) > Program Files (x86) > Common Files > Mechworks > MWAutoNumber

Name

Register MWAutoNumber Components.bat

In the event that the MWAutoNumber components are unable to be registered during installation, running this .bat file as the administrator will attempt to re-register all the MWAutoNumber components. A log will be generated (in the same folder) indicating if the attempt was successful:

OS (C:) > Program Files (x86) > Common Files > Mechworks > MWAutoNumber >

Name

Register MWAutoNumber Components.bat

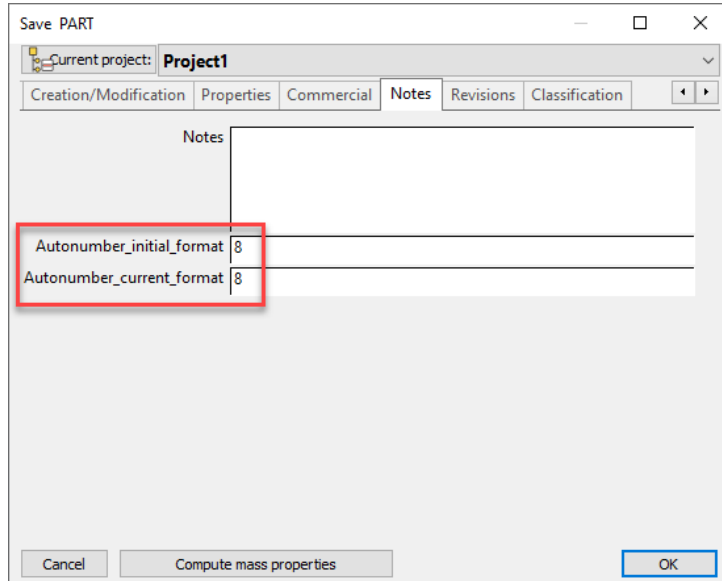
Register MWAutoNumber.log

Performance improvements

General performance has been improved in multiple dialogs, including the Format Options dialog and Format List dialog. These performance improvements are especially apparent in environments with many formats or a very large category tree.

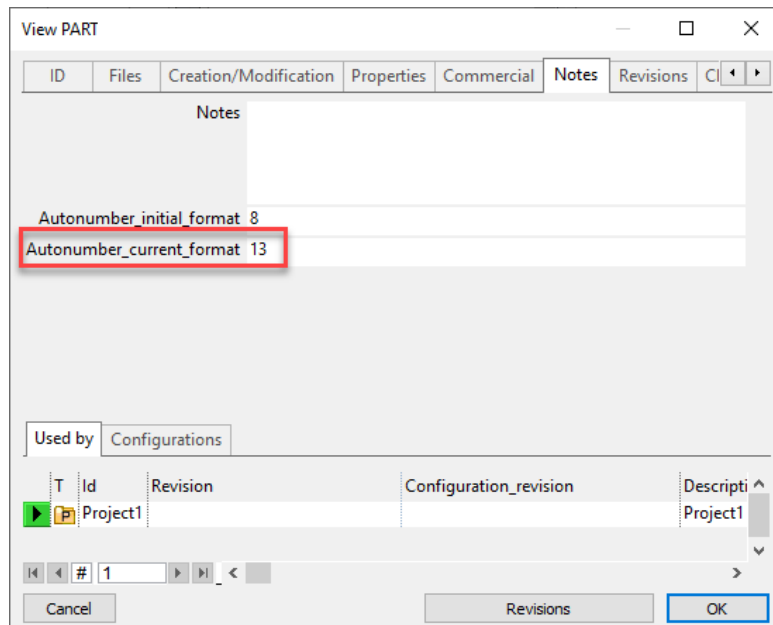
Format ID saved

When creating a new record, the ID of the AutoNumber format used to generate the part number is stored in two new fields:



The AutoNumber_Initial_Format field stores the ID of the AutoNumber format initially used to generate the part number. This value will never change.

The AutoNumber_Current_Format field stores the ID of the AutoNumber format used most recently to generate the part number. This value will change as the file is renamed:

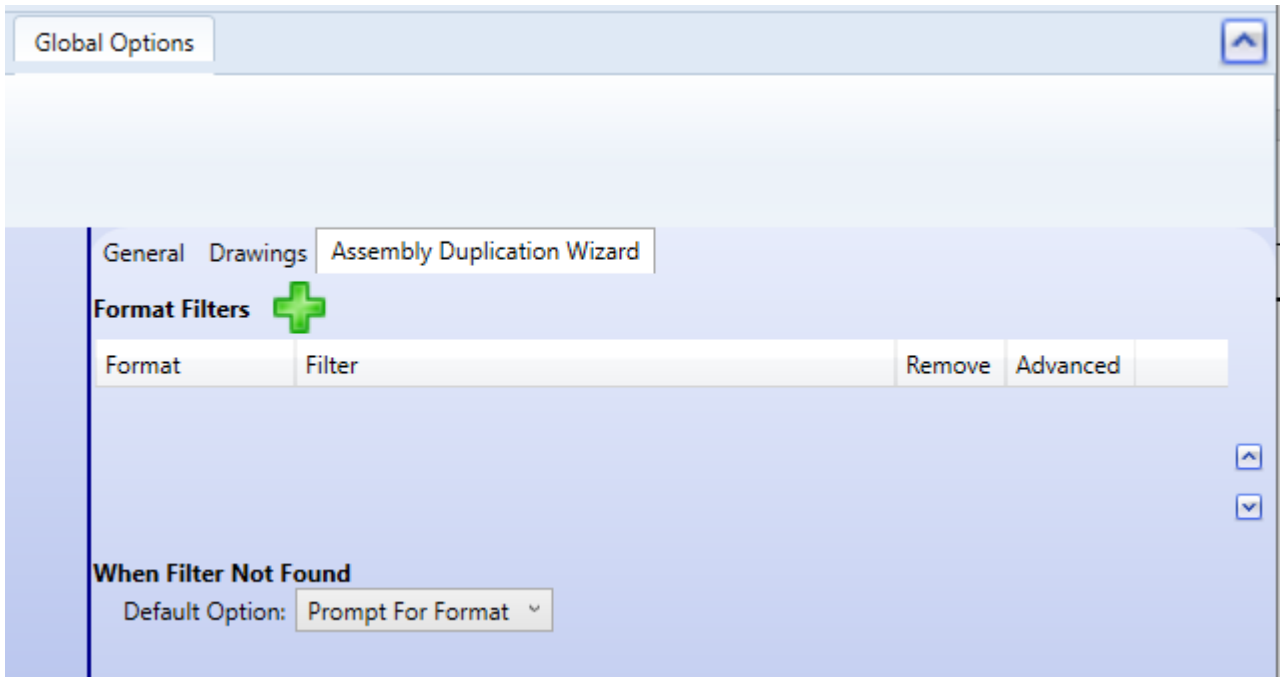


When performing a Save-As against an existing file, the Format List will highlight the initial format selected. These fields are also used in the new Assembly Duplication options, explained on the next page.

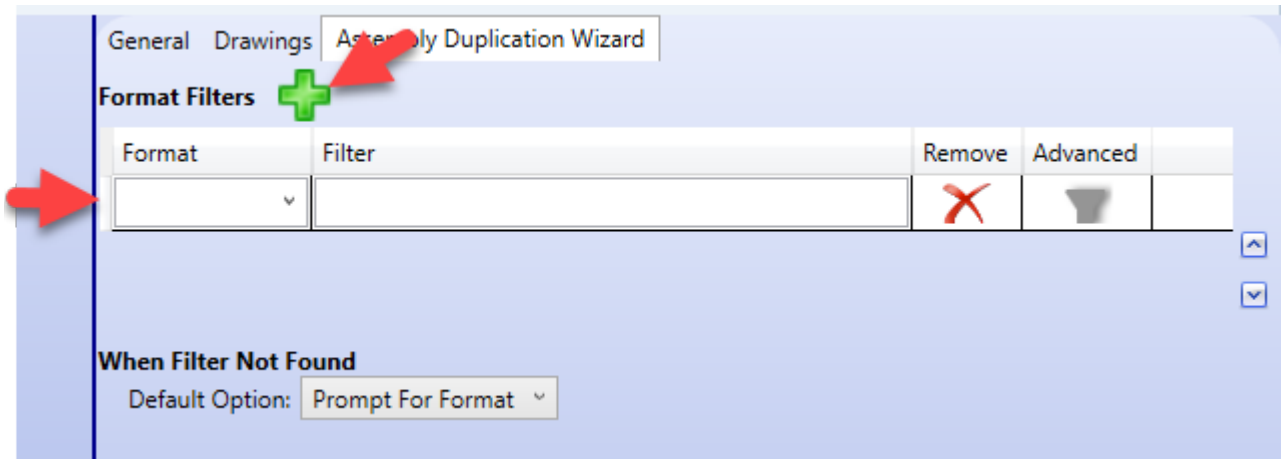
Options

Assembly Duplication options

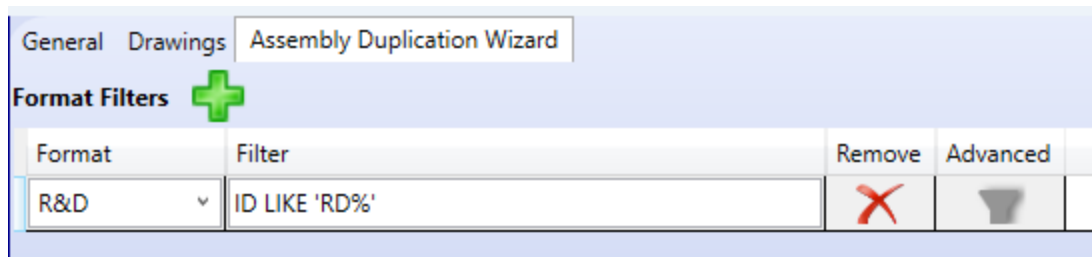
The Global Options now includes a new tab containing some new options for the Assembly Duplication Wizard:



At the top of the tab, the Format Filters section allows the Administrator to define a set of Format Filters to be applied when using the Assembly Duplication Wizard. A new Format Filter can be created by clicking the green [+] button:




Within the Format Filter, the Administrator can define a particular AutoNumber Format that should be used when a document matching a given filter is duplicated. For example:

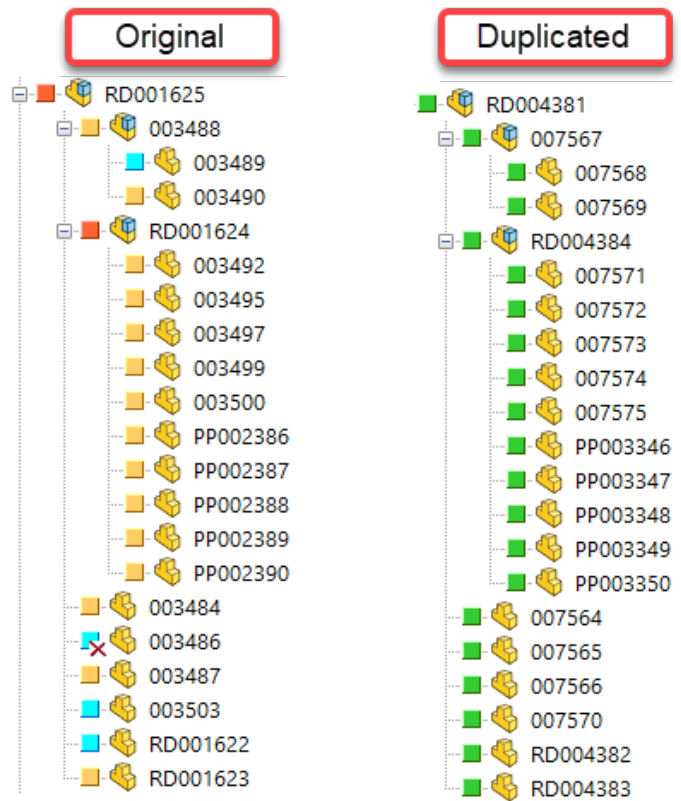


In the above example, any time a document with an ID value beginning with 'RD' is duplicated, MWAutoNumber will automatically select the "R&D" format to generate the part number for the duplicated document.

Many filters can be configured to create well-defined logic for duplicating large assemblies quickly with no need to prompt the user for the format:


| Format Filters  | | Remove | Advanced | |
|--|--|--------|----------|--|
| R&D | ID LIKE 'RD%' | | | |
| Purchased Parts | ID LIKE 'PP%' | | | |
| Production | ID LIKE '[0-9][0-9][0-9][0-9][0-9][0-9]' | | | |

For example:

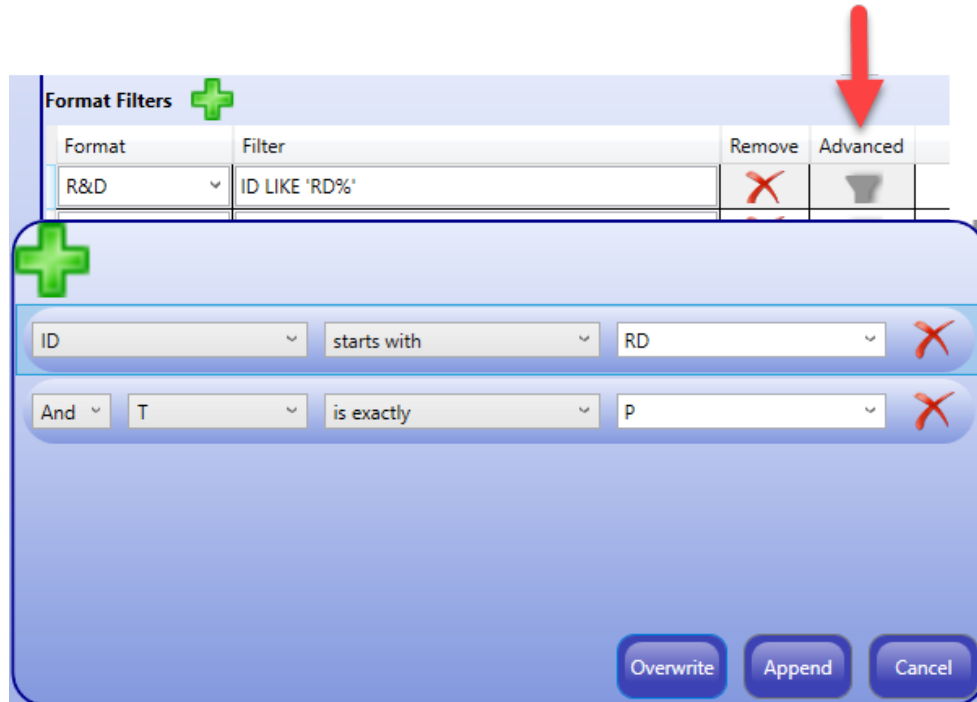


The above assembly was able to be fully duplicated without interacting with or prompting the user at all. MWAutoNumber used the defined Format Filters to automatically select the correct AutoNumber format to use with each component.

Each filter is checked in order from top to bottom. In the example above, MWAutoNumber will first check if a component matches the filter “ID LIKE ‘RD%’”. If so, MWAutoNumber will use the “R&D” format to generate the new part number. If not, MWAutoNumber will check if the component matches the filter “ID LIKE ‘PP%’”. MWAutoNumber will continue down the list until a match is found or the end of the list is reached. To change the order of the Format Filters in the list, use the “Up” and “Down” arrows to the right of the Format Filters list:

| Format Filters  | | Remove | Advanced | |
|--|--|--------|----------|--|
| R&D | ID LIKE 'RD%' | | | |
| Purchased Parts | ID LIKE 'PP%' | | | |
| Production | ID LIKE '[0-9][0-9][0-9][0-9][0-9][0-9]' | | | |

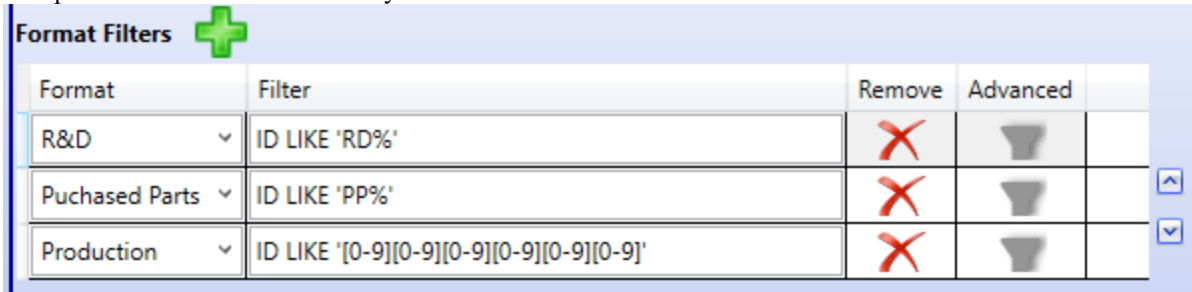
Additionally, the [Advanced] button will display an Advanced Filter dialog to aid in defining these filters:



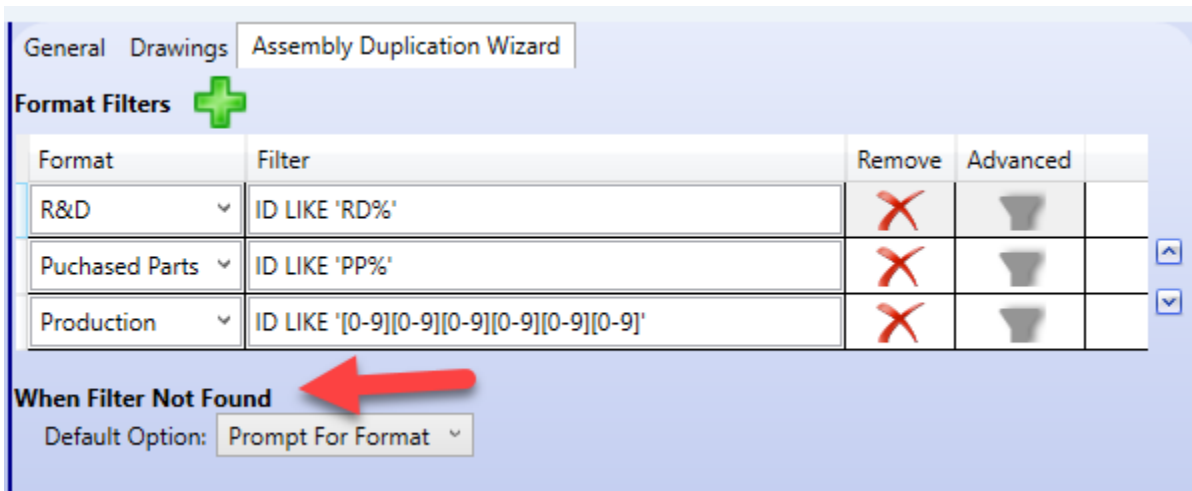
Although these Format Filters can be a powerful tool in defining logic to use with most documents in MechWorks PDM, some documents may not match any of the defined Format Filters. For example:

--- IIS-73-2145

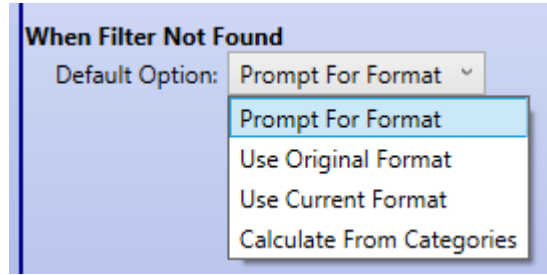
The above part number does not match any of the defined Format Filters:



In this case, the “When Filter Not Found” options should be used to define what logic MWAutoNumber should use when the user duplicates a component which does not match any of the defined filters:



By default, the option is set to simply prompt the user for the AutoNumber format to use. However, there are several other options available in the drop down list:



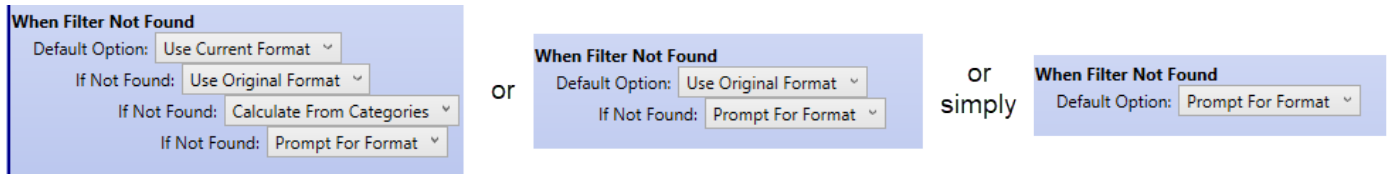
Prompt For Format: The user will be prompted with the Format List dialog to select the format to use.

Use Original Format: MWAutoNumber will automatically select the format defined in the AutoNumber_Initial_Format field (explained in detail on page 4).

Use Current Format: MWAutoNumber will automatically select the format defined in the AutoNumber_Current_Format field (explained in detail on page 4).

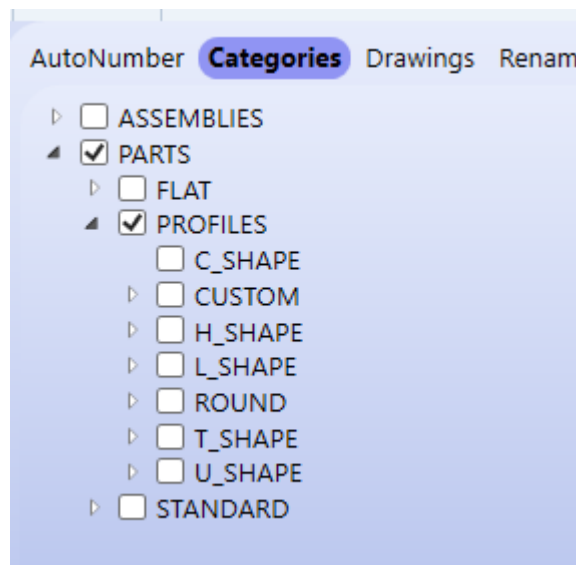
Calculate From Categories: In environments with Linked Categories, the Category Wizard will be displayed to the user and the format will be selected based on the user's selected categories.

The Administrator can define these options in a hierarchy best matching the needs of a given environment:



Linked Categories: partial tree support

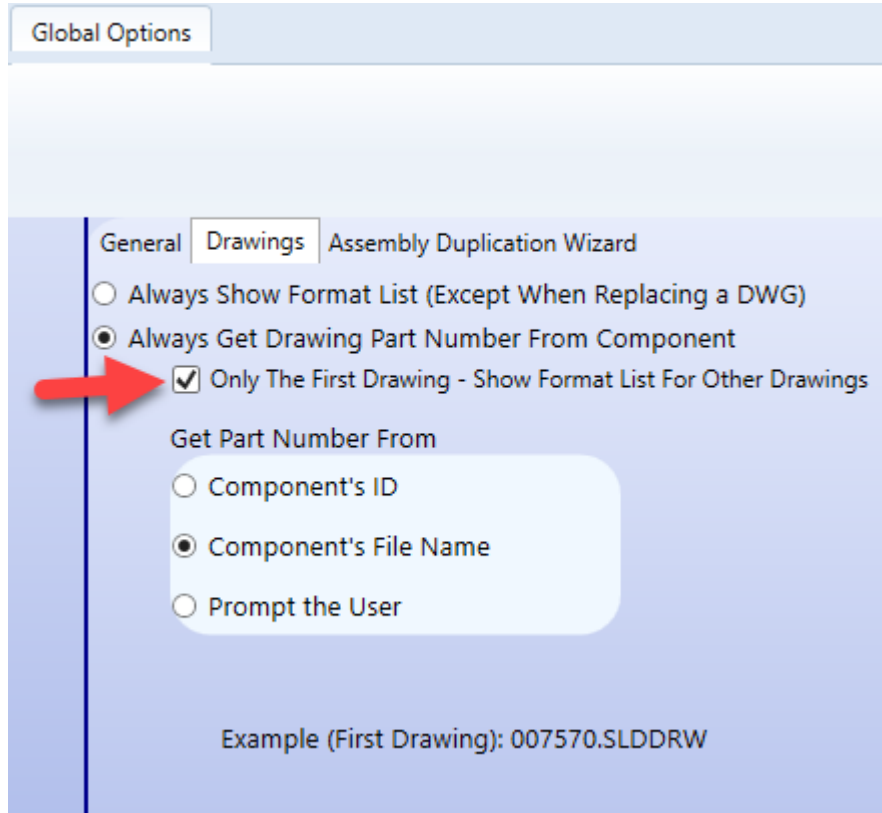
Linked categories are now compatible with partial tree support. For example, if a format has the following linked category settings:



Any combination of categories selected starting with [PARTS] => [PROFILES] will be matched with this format and the part number will be assigned accordingly.

New Global Drawing Option: show format list after first drawing

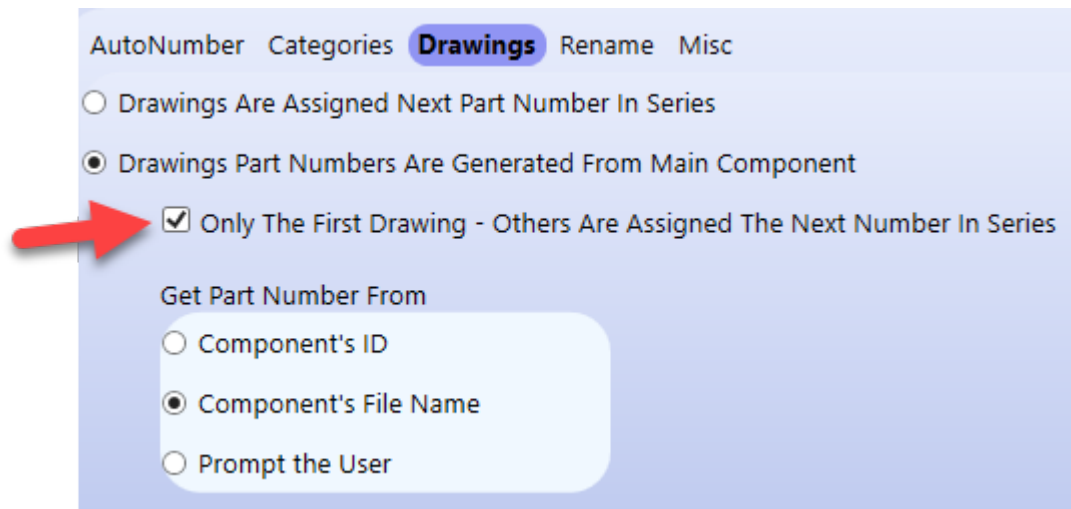
A new global option has been added to allow showing the format list for drawings created after the first drawing:



If checked, the first drawing created will inherit its part number from the component, but users will be prompted with the format list to generate the part number for drawings after the first.

New Drawing Option: assign next number after first drawing

A new format option has been added to allow assigning a new part number to drawings after the first:

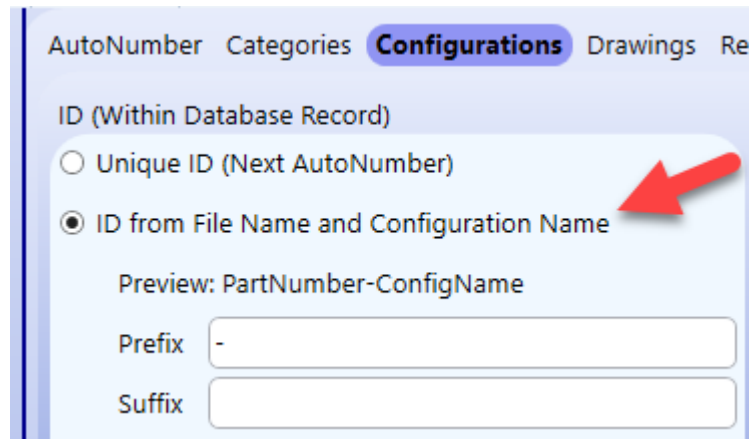


If checked, the first drawing will inherit its part number from its components, but other drawings will be assigned the next number in the series.

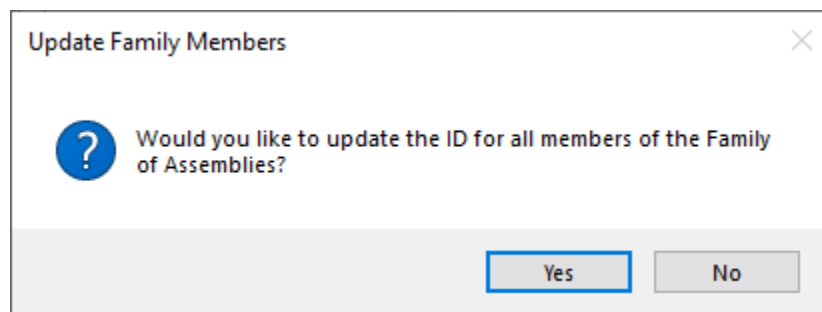
Solid Edge

Replace part number in family of assemblies

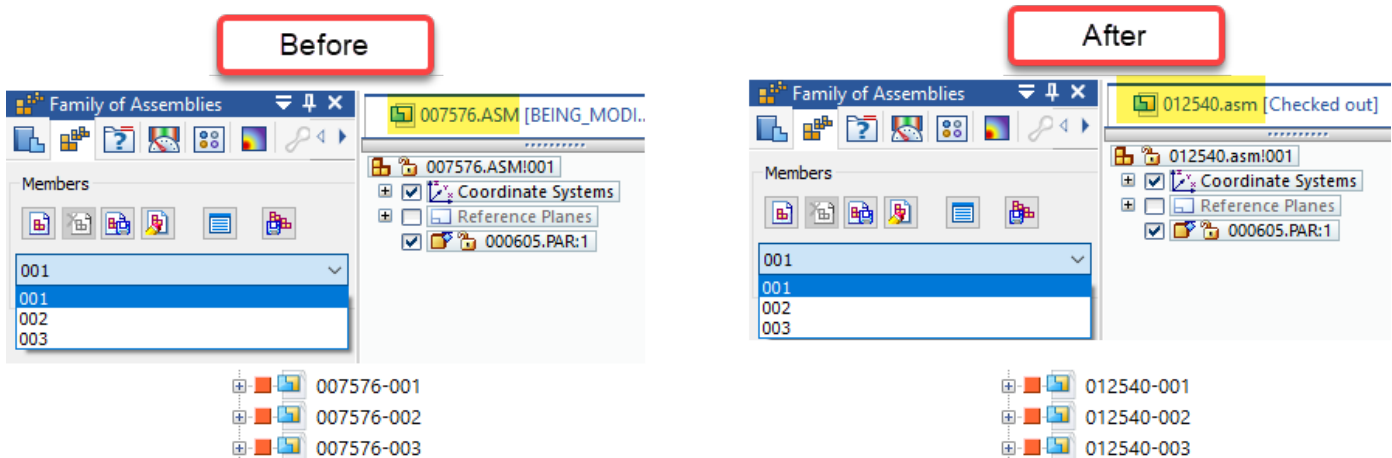
If a file containing a family of assemblies is renamed (and the MechWorks PDM options are configured to save the members of the family as distinct records), if the user selects a format with the option checked to assign “ID from File Name and Configuration Name”:



Then the user will be prompted if the part number should be replaced for all the members of the family:



If the user selects “Yes”, then the part number will be updated in all members of the family:



Bug Fixes

- MWAutoNumber did not handle creating a part “in context” correctly. The format list or category wizard was not displayed correctly when creating a part “in context”.
- The [Cancel] button in the “Change Number” dialog was not storing canceled numbers for formats with the option checked to store canceled numbers.
- MWAutoNumber was not adjusting if a number in the AUTONUMBER_CANCEL table was already used. The user would be unable to generate a new number from the format until the record was manually deleted. Now, in such a case, the situation is detected, the number is removed from the AUTONUMBER_CANCEL table, and the next number in the format series is used.
- When the “Match Folder” option was set to “Prompt for Folder”, the preview would display “Z:\Vault”. The preview now displays the “default” folder as defined in the Global Options. If not found, then the default folder defined in the MechWorks PDM option is used.
- A primary key has been added to all tables.
- When executing a Save As against an already categorized document, the Category Wizard now defaults to the categories already selected in the original document.
- When a binder was renamed, the binder lists (in the Copy Format drop down and Move Format drop down) were not updated.