

September, 2026

MWClearDirtyRevFlag User Manual

Removing the dirty revision flag when a revision does not change the form, fit or function.



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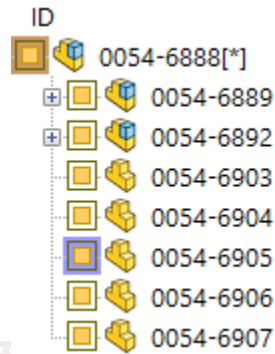
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Introduction

Most of the time, when a child component is life-cycled, any RELEASED parents referencing the child component should be marked as “dirty” – indicating that a child component has changed since the parent was last approved:

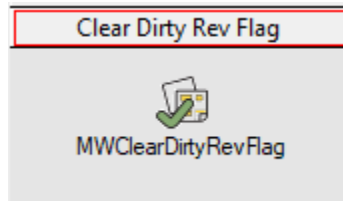


Reference the box-icons within the figure above that represent the [STATE] of each. In the example above, the child component 0054-6905 has been life-cycled after the approval of its parent 0054-6888. The brown flag (box) around the gold (RELEASED) box for assembly 0054-6888 informs the users that currently released drawings and PDFs for the 0054-6888 parent may be out-of-date (dirty) due to one or more child components being changed. The blue flag (box) around the gold (RELEASED) box for the 0054-6905 child component informs the user that this component is causing one or more parents to being flagged as out-of-date (dirty).

However, not all child component updates officially cause parents to be “physically” out-of-date (dirty). For example, what if the life-cycle operation on the child 0054-6905 component was simply to fix a spelling error within its 0054-6905 drawing? In this case, the change would not affect the parents of 0054-6905 at all, and its 0054-6888 parent would not technically be out-of-date (dirty) despite the indication from the flags.

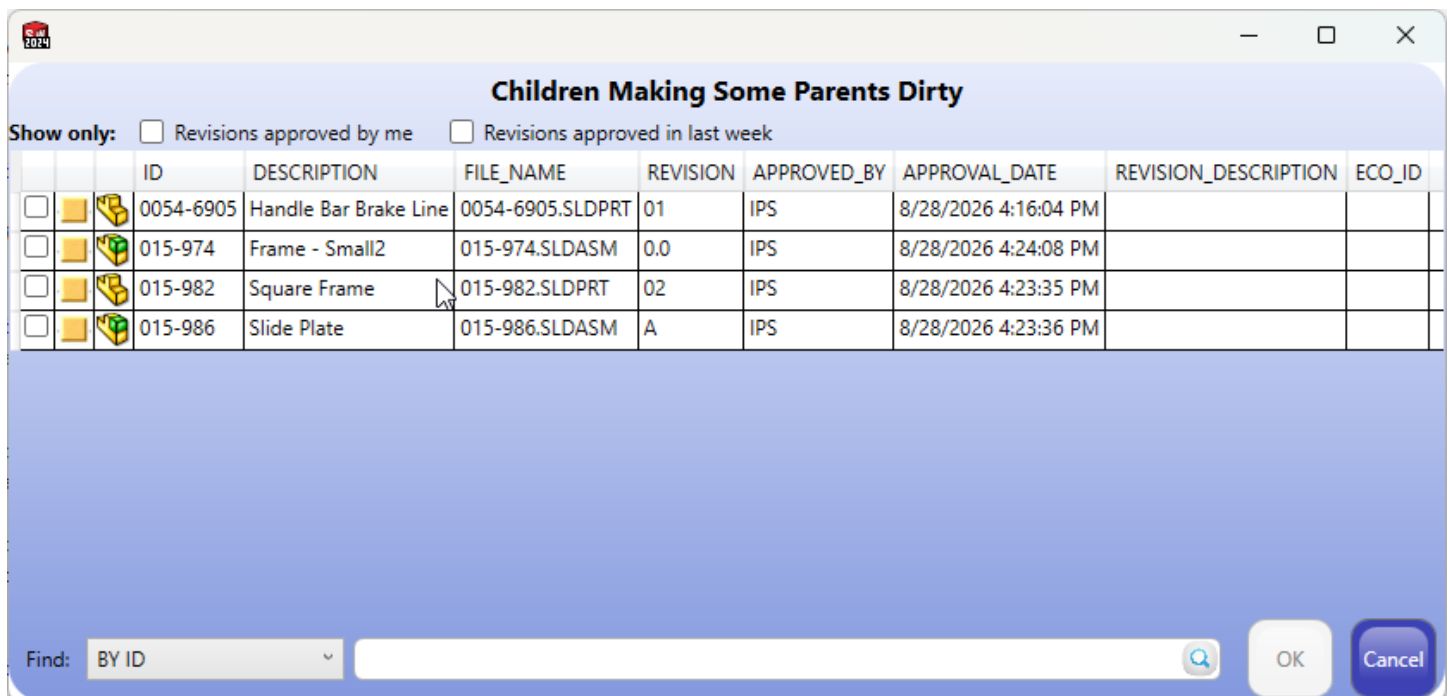
In such a case, it is useful to have a tool to clear the dirty revision flag from assembly 0054-6888 because of its child 0054-6905 component. The **MWClearDirtyRevFlag** tool described in this manual is intended for just this purpose.

MWClearDirtyRevFlag Tool



Once installed, the **MWClearDirtyRevFlag** tool is available from the shortcut bar. By default, all users have access to the tool, but administrators can restrict access using the standard shortcut bar options.

Running the tool displays a dialog listing all children that are setting the flag:



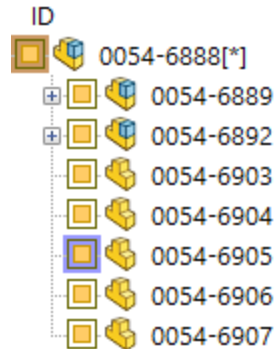
The grid displays a list of components making at least one parent dirty. If there are many components, the [Find] text box at the bottom of the dialog can be used to search for specific components. The drop-down menu next to the [Find] text box can be used to search by [ID], [DESCRIPTION] or [APPROVED_BY].

Additionally, the [Show only] options above the grid can be used to set two filters; [X]Revisions approved by me and/or [X] Revisions approved in the last week. Both filtering options can be selected or just one of them or neither of them.

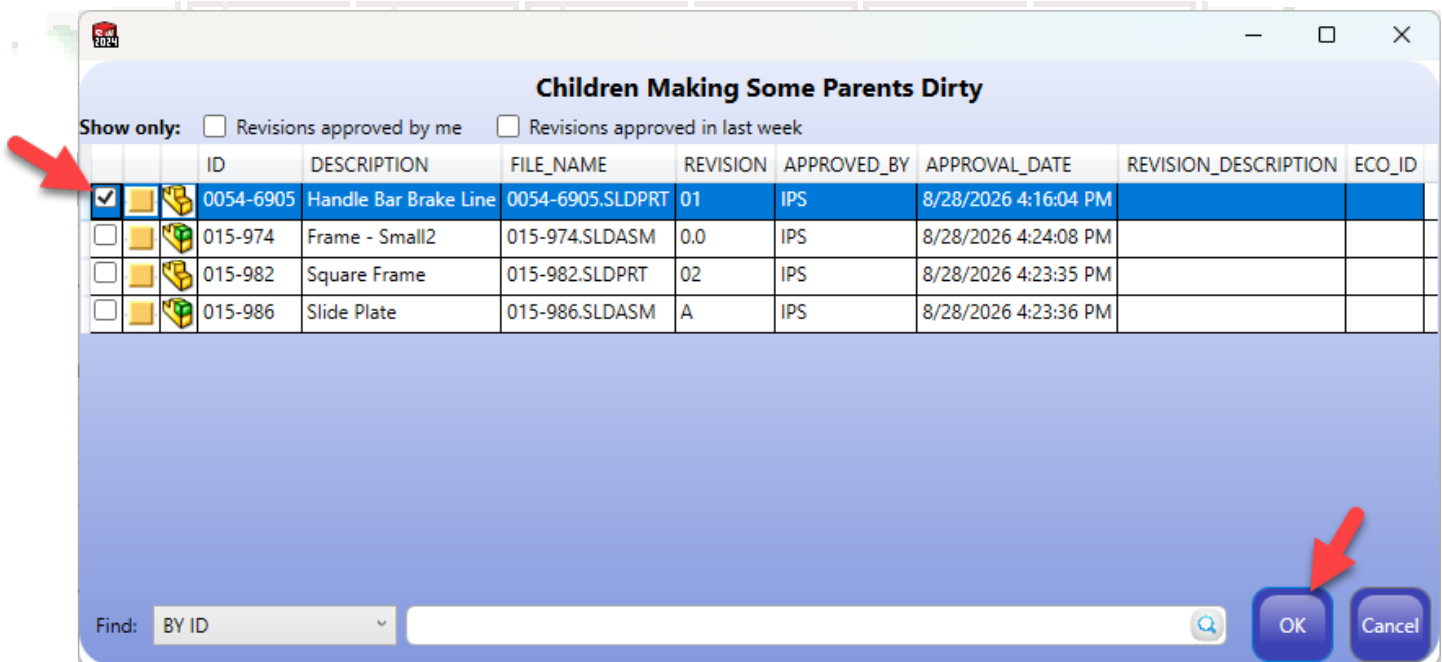
Finally, right-mouse selecting an item from within the grid displays a menu allowing the user to [Create Working Set] or [Append to Working Set]. This can be useful if the user is unsure if the approved revision contains changes to form, fit or function and would like to review specific details before proceeding with clearing the dirty revision flags.

Simple Clear

In the following assembly, 0054-6905 is the ONLY component making 0054-6888 dirty:



To clear the flag, first check the box for component 0054-6905 and then select [OK]:



Children Making Some Parents Dirty

Show only: ☐ Revisions approved by me ☐ Revisions approved in last week

	ID	DESCRIPTION	FILE_NAME	REVISION	APPROVED_BY	APPROVAL_DATE	REVISION_DESCRIPTION	ECO_ID
☒	0054-6905	Handle Bar Brake Line	0054-6905.SLDPRT	01	IPS	8/28/2026 4:16:04 PM		
☐	015-974	Frame - Small2	015-974.SLDASM	0.0	IPS	8/28/2026 4:24:08 PM		
☐	015-982	Square Frame	015-982.SLDPRT	02	IPS	8/28/2026 4:23:35 PM		
☐	015-986	Slide Plate	015-986.SLDASM	A	IPS	8/28/2026 4:23:36 PM		

Find: BY ID

OK Cancel

The tool will run for a few seconds, as it needs to walk the component's ancestor parent tree structure:



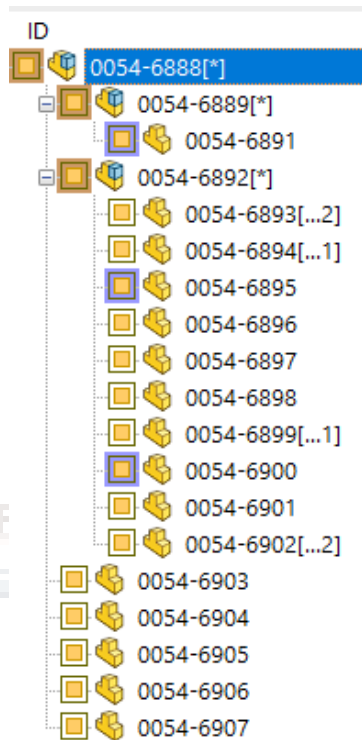
The tool will then display the results indicating which flags have been cleared from both components and ancestors. The upper section of the resulting displayed dialog lists the components that were originally selected by the user for having their associated flag cleared and the lower section lists their parents that have had the associated flag cleared.

Children Cleared						
	ID	DESCRIPTION	FILE_NAME	REVISION	LAST_MODIFIED_DATE	
	0054-6905	Handle Bar Brake Line	0054-6905.SLDPRT	01	8/28/2026 4:16:05 PM	
Ancestors Cleared						
	ID	DESCRIPTION	FILE_NAME	REVISION	LAST_MODIFIED_DATE	
	0054-6888	Completed Handle Bar	0054-6888.SLDASM	00	8/28/2026 4:01:57 PM	
	0054-6888	Completed Handle Bar	0054-6888.SLDDRW	00	8/28/2026 4:02:21 PM	

Looking at the assembly in the browser confirms the flags have been cleared/removed:

ID
 0054-6888
 0054-6889
 0054-6892
 0054-6903
 0054-6904
 0054-6905
 0054-6906
 0054-6907

Assemblies with Multiple Components Flagging Them Dirty



In the above assembly, multiple components are flagging their ancestors as having dirty revisions.

For this example, the user selects 0054-6891 and 0054-6895 from the initial **MWClearDirtyRevFlag** dialog, but does NOT select 0054-6900:

Children Making Some Parents Dirty

Show only: ☐ Revisions approved by me ☐ Revisions approved in last week

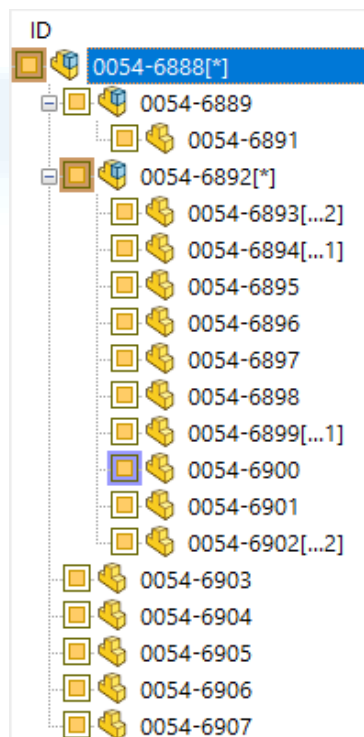
	ID	DESCRIPTION	FILE_NAME	REVISION	APPROVED_BY	APPROVAL_DATE	REVISION_DESCRIPTION	ECO_ID
☒	0054-6891	Throttle Temp	0054-6891.SLDPRT	01	IPS	8/28/2026 4:31:37 PM		
☒	0054-6895	DBWorks Brake Handle	0054-6895.SLDPRT	01	IPS	8/28/2026 4:31:36 PM		
☐	0054-6900	Main Reservoir	0054-6900.SLDPRT	01	IPS	8/28/2026 4:31:30 PM		
☐	015-974	Frame - Small2	015-974.SLDASM	0.0	IPS	8/28/2026 4:24:08 PM		
☐	015-982	Square Frame	015-982.SLDPRT	02	IPS	8/28/2026 4:23:35 PM		
☐	015-986	Slide Plate	015-986.SLDASM	A	IPS	8/28/2026 4:23:36 PM		

Find: BY ID

The results show that the flag was removed from both selected components and it also shows that the parent ancestor flag removed was only for 0054-6889:

Children Cleared						
	ID	DESCRIPTION	FILE_NAME	REVISION	LAST_MODIFIED_DATE	
	0054-6895	DBWorks Brake Handle	0054-6895.SLDPRT	01	8/28/2026 4:31:36 PM	
	0054-6891	Throttle Temp	0054-6891.SLDPRT	01	8/28/2026 4:31:37 PM	
Ancestors Cleared						
	ID	DESCRIPTION	FILE_NAME	REVISION	LAST_MODIFIED_DATE	
	0054-6889	Throttle Temp	0054-6889.SLDASM	00	8/28/2026 4:01:54 PM	

Looking at the tree structure within the MechWorks PDM browser confirms this result:



Parent assemblies, 0054-6888 and 0054-6892 do NOT have their flags removed because they still contain one or more child components flagging them as having a dirty revision (0054-6900).

Multiple Revision Approvals

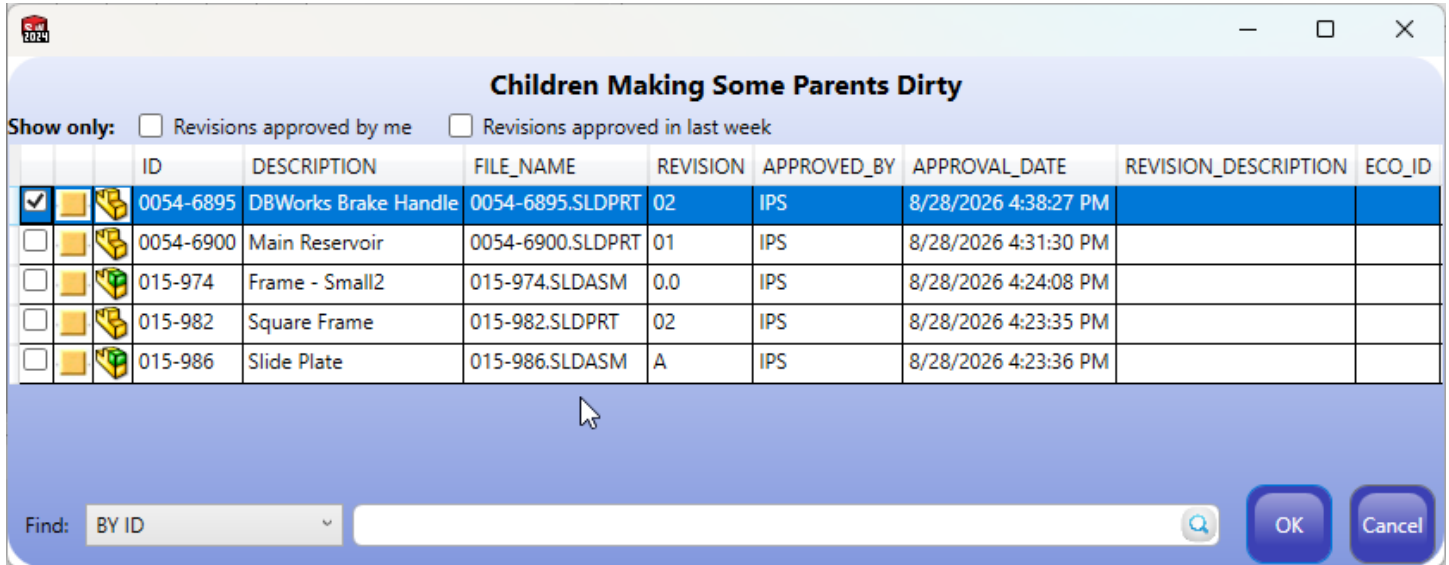
Sometimes, multiple revisions for a particular component have been approved causing a dirty revision flag. For example:

ID	Q...	R...
0054-6888[*]	1	00
0054-6889	1	00
0054-6891	1	01
0054-6892[*]	1	00
0054-6893[...2]	3	00
0054-6894[...1]	3	00
0054-6895	1	02
0054-6896	1	00
0054-6897	1	00

Initially, the child component 0054-6895 was released with its parent ancestors (0054-6892 and 0054-6888) at revision 00 (all at the same time). Since then, the child component 0054-6895 has had multiple revisions against it so it is currently at revision 02. Meaning, it has two newer revisions (01 and 02) flagging its two ancestors as having dirty revisions.

It is possible that the first revision (01) was a change to the form, fit or function of the child component 0054-6895 so it should reflect that its parents are flagged as dirty, while its second revision (02) was something like a spelling correction so it should not flag its parents as dirty. However, the database does not track the dirty revision flag for/by specific revisions. A child is either flagging an ancestor parent as having a dirty revision or it isn't. **The flag cannot be removed for one of its revision but not the other.**

Therefore, if the user runs the **MWClearDirtyRevFlag** tool to remove the flag for revision 02, the tool must warn the user that removing the flag will also remove it for revision 01. If the user selects 0054-6895 in the initial dialog:



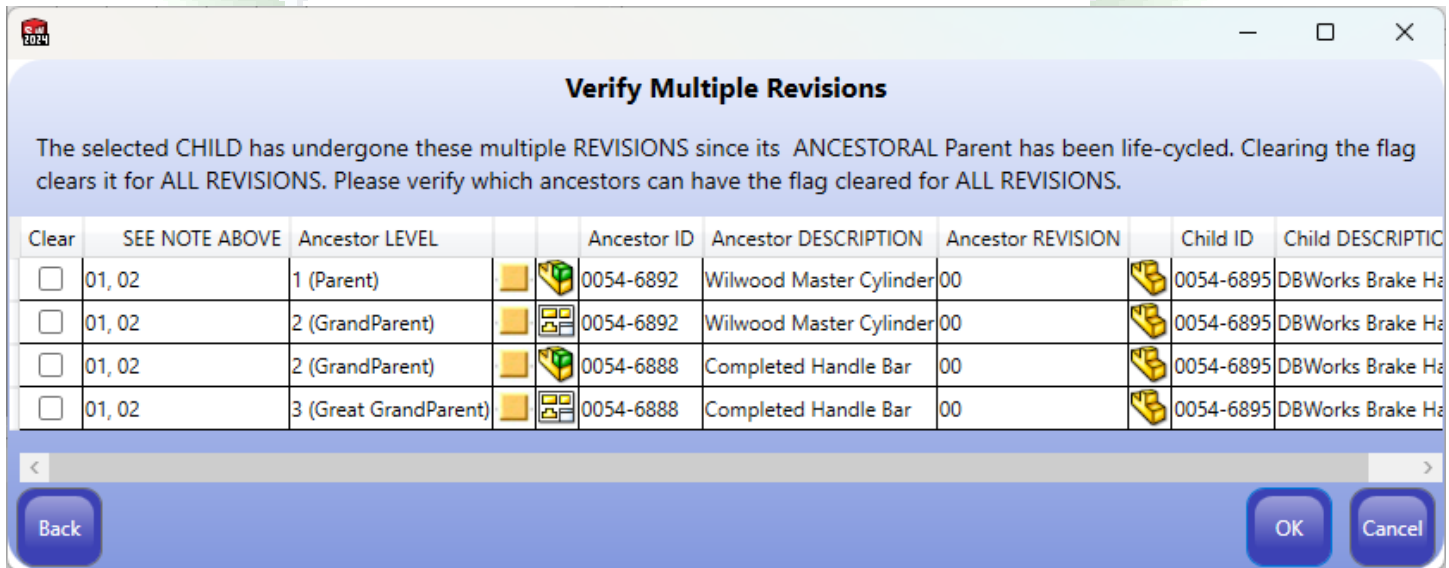
Children Making Some Parents Dirty

Show only: ☐ Revisions approved by me ☐ Revisions approved in last week

	ID	DESCRIPTION	FILE_NAME	REVISION	APPROVED_BY	APPROVAL_DATE	REVISION_DESCRIPTION	ECO_ID
☒	0054-6895	DBWorks Brake Handle	0054-6895.SLDPRT	02	IPS	8/28/2026 4:38:27 PM		
☐	0054-6900	Main Reservoir	0054-6900.SLDPRT	01	IPS	8/28/2026 4:31:30 PM		
☐	015-974	Frame - Small2	015-974.SLDASM	0.0	IPS	8/28/2026 4:24:08 PM		
☐	015-982	Square Frame	015-982.SLDPRT	02	IPS	8/28/2026 4:23:35 PM		
☐	015-986	Slide Plate	015-986.SLDASM	A	IPS	8/28/2026 4:23:36 PM		

Find: BY ID

The user will be presented with the following dialog:



Verify Multiple Revisions

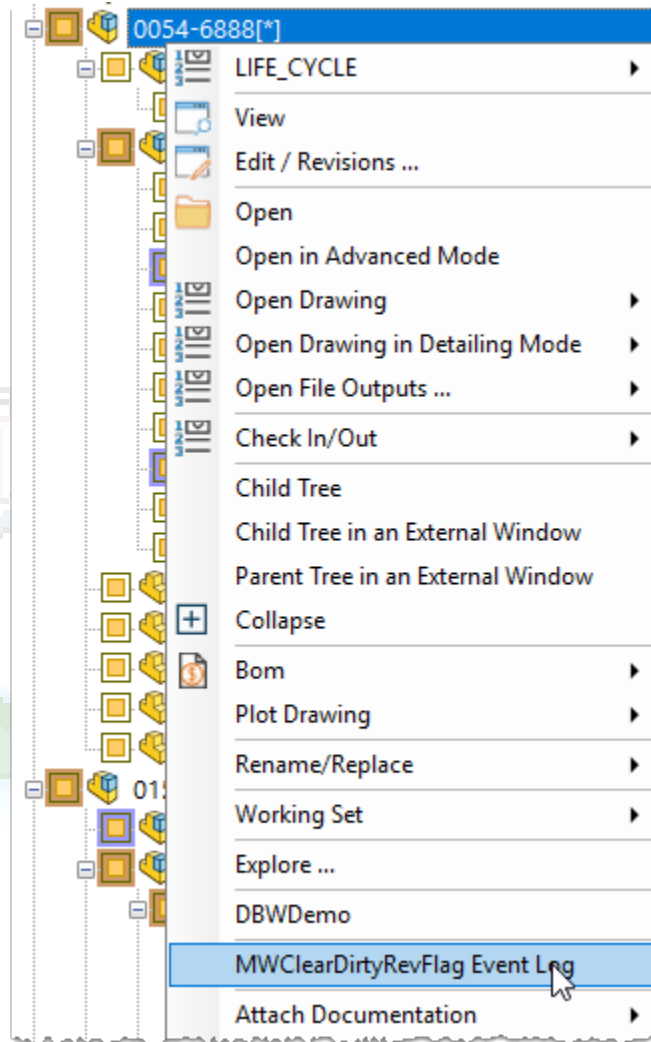
The selected CHILD has undergone these multiple REVISIONS since its ANCESTORAL Parent has been life-cycled. Clearing the flag clears it for ALL REVISIONS. Please verify which ancestors can have the flag cleared for ALL REVISIONS.

Clear	SEE NOTE ABOVE	Ancestor LEVEL	Ancestor ID	Ancestor DESCRIPTION	Ancestor REVISION	Child ID	Child DESCRIPTION
☐	01, 02	1 (Parent)	0054-6892	Wilwood Master Cylinder	00	0054-6895	DBWorks Brake Handle
☐	01, 02	2 (GrandParent)	0054-6892	Wilwood Master Cylinder	00	0054-6895	DBWorks Brake Handle
☐	01, 02	2 (GrandParent)	0054-6888	Completed Handle Bar	00	0054-6895	DBWorks Brake Handle
☐	01, 02	3 (Great GrandParent)	0054-6888	Completed Handle Bar	00	0054-6895	DBWorks Brake Handle

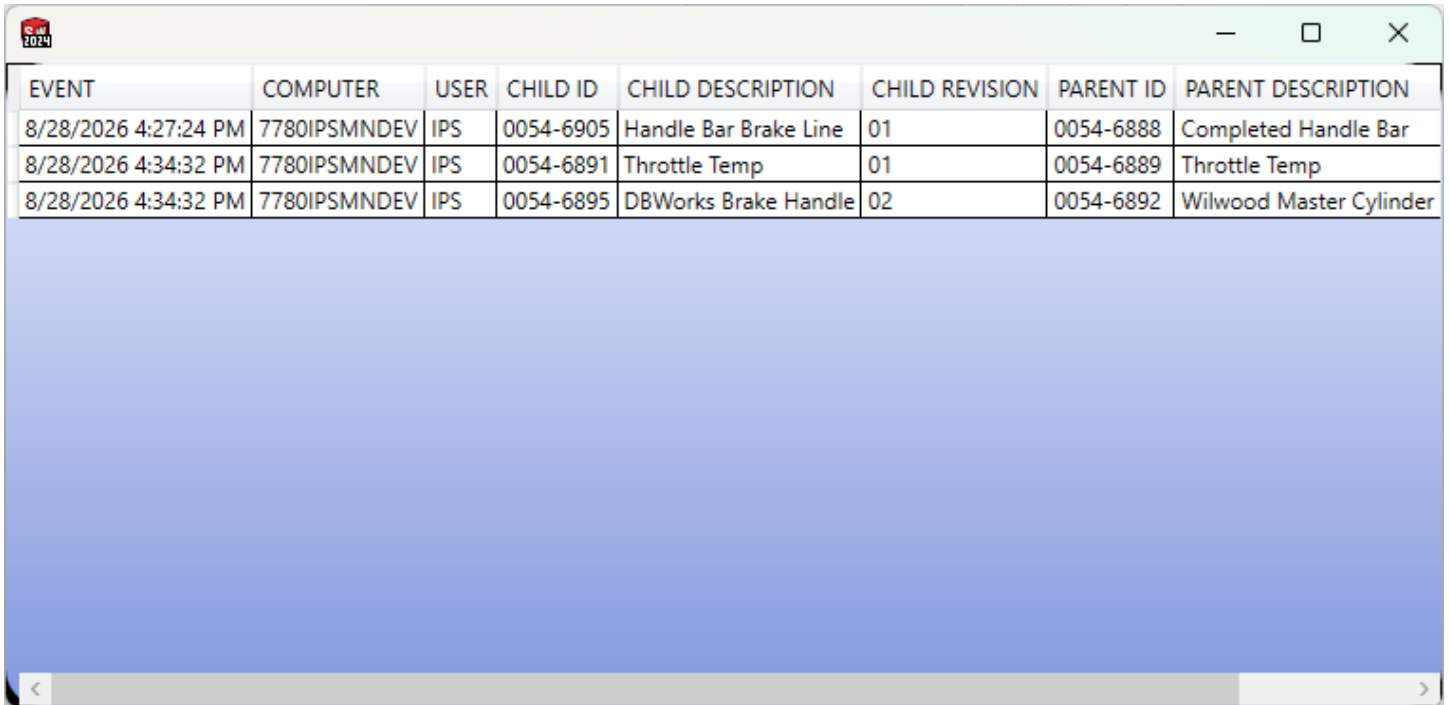
The validation dialog indicates that multiple revisions (01 and 02) have been approved since the components noted ancestors were approved. If the user is sure that both revisions are not physical design changes to form, fit or function, then the user can check the boxes in the [Clear] column and continue with the flag removal. If the user is not sure that both revisions can be cleared, then the user can select the [Cancel] button to exit without removing the flag.

MWCleanDirtyRevFlag Event Log

The right-mouse button menu of assemblies will include a command to view the [MWCleanDirtyRevFlag Event Log]:



This will display a simple grid showing the components which have had a dirty revision flag removed since the selected assembly was last approved:



EVENT	COMPUTER	USER	CHILD ID	CHILD DESCRIPTION	CHILD REVISION	PARENT ID	PARENT DESCRIPTION
8/28/2026 4:27:24 PM	7780IPSMNDEV	IPS	0054-6905	Handle Bar Brake Line	01	0054-6888	Completed Handle Bar
8/28/2026 4:34:32 PM	7780IPSMNDEV	IPS	0054-6891	Throttle Temp	01	0054-6889	Throttle Temp
8/28/2026 4:34:32 PM	7780IPSMNDEV	IPS	0054-6895	DBWorks Brake Handle	02	0054-6892	Wilwood Master Cylinder