

MechWorks PDM R17

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Behavior Changes

COLLATE directive used in the Search Queries

In order to improve the performance of the Search Queries, by default the LIKE operator is now prefixed with a COLLATE SQL_Latin1_General_CP1_CI_AS directive.

If for any reason this new behavior has some conflicts with other procedures used by the customers, it is possible to restore the old behavior by adding the following line in the DBWCONN.PAR:

```
DBWORKS_SEARCH_LIKE_OPERATOR LIKE
```

DBWARM: Group changes applied to the database while editing

In order to avoid massive delete/insert operations, with potential conflicts in replicated database environments, any change applied to a Group (like editing its rights, deleting the Group, creating a new Group, creating a copy of a Group) is also applied to the database at the same time

DBWGZIPR17.EXE: Non-compressed Revision Files

With R17 Revision Files are no longer compressed (zipped in .GZ format).

The reason of such change is because most of the today's applications (example SolidWorks, MS Office, etc.) already have a compressed file format for their documents.

Avoiding the file compression gives a significative performance enhancement (between 10 to 20 %) for the Revision Life Cycle processes.

The new DBWGZIP.exe is named DBWGZIPR17.exe, and used if existing in the BIN directory, or side-by-side with the DBWAcIserver.exe service.

The DBWGZIPR17.exe is able to correctly uncompress the .GZ files created with the previous version of DBWGZIP.EXE, but creates a copy of the original file, even if still named with the .GZ extension (this for compatibility with all the "core" procedures handling .GZ files).

Delete of Referenced Documents

Generic Documents and Fake Documents are now considered when referenced by other Assemblies.

Data Input Validation: ID Field Check

It is now implemented a check to avoid leading and trailing blank characters when editing the ID field.

MwLicense: borrow conditions

The time limit for borrow operations has been removed (previously it was up to one-month) and, at MwLicenseManager.config level, it is now possible to set the MWLICENSEMGR_DISABLE_BORROW parameter to disable (1) the borrow feature.

Option Environment->[X] Traverse only first level of assembly structures

Sub-assemblies in a writeable state (NEW or CHECKED-OUT) and marked as 'dirty' by SolidWorks are now traversed down for updating the database structure with any possible change of the sub-assembly structure.

Option General->Event log-> Max. num. of event log records [-1=infinite; 0=no event log]

The events history is always kept in the table if younger than one year, no matter of the settings of this option.

Option General->Units->Format

Format strings like **%.<number of decimals>f** can create 0 as result of a surface/volume/weight/length calculation. The default behavior is now changed so that, if a 0 result is calculated for any of the above calculations, the format string is automatically changed to **%.<number of decimals>g**, so changing the type identifier from **f** to **g**, that will create a formatted value with at least the desired number of non-zero decimals.

Example:

Consider a format string **%.2f** is assigned for the Weight calculation.

With the following weight values:

```
0.01957794710 kg
0.01639712710 kg
0.00016186700 kg
15.70000000000
288.27084000000
```

the result using %.2f as format would be:

0.01957794710 kg	=> 0.02
0.01639712710 kg	=> 0.02
0.00016186700 kg	=> 0
15.70000000000 kg	=> 15.7
288.27084000000 kg	=> 288.27

so the 3rd value would be 0.

With this behavior change the result will be:

0.01957794710 kg	=> 0.02	(%.2f used because not 0 result)
0.01639712710 kg	=> 0.02	(%.2f used because not 0 result)
0.00016186700 kg	=> 0.00016	(%.2g used because 0 result with %.2f)
15.70000000000 kg	=> 15.7	(%.2f used because not 0 result)
288.27084000000 kg	=> 288.27	(%.2f used because not 0 result)

Option Projects->[X] Always consider the Current Project as Shared

Remote Access: the option Projects->[X] Always consider the Current Project as Shared is now considered also when adding new documents/attachments to the Project - Notes: the Project icon changes now from Foreign to Local when the Project becomes Current - when the Current Project is changed, the Project icon returns to be Foreign

Option Revisions->Approval->[X] Copy document's fields on revision approval

The option can't be disabled any more, because at least the DOCUMENT::FILE_NAME -> REVISIONS::FILE_NAME will always be copied at Approval Time

Enhancements

4K Monitors Support

4K Monitors Support

4K (UHD) Monitors are now supported by the MechWorks PDM Core modules, allowing a text scaling greater than 200%

More support for minor modules will be added during the life cycle of R17

Autocad

Autocad 2018 support

R17 can handle Autocad 2018 files

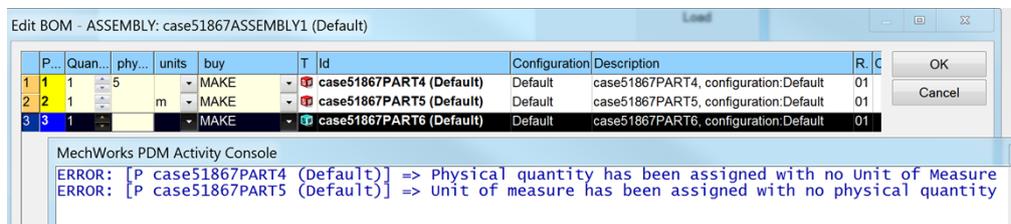
BOM

Change Quantity Dialog: RESET button added

A button named [RESET] has been added to the Change Quantity dialog.

Edit BOM: Physical Quantity and Unit of Measure Validation

A validation check on the Physical Quantity and Unit of Measure values is now executed before applying any change to those fields.



New Option: General->More...->[X] Always use Dataentr.LST when creating a new BOM Item

This new option, available in the *General->More ...* page, denies the ability to insert a new ID by hand in the *Create New BOM Item* dialog.

The OK button is also not available.

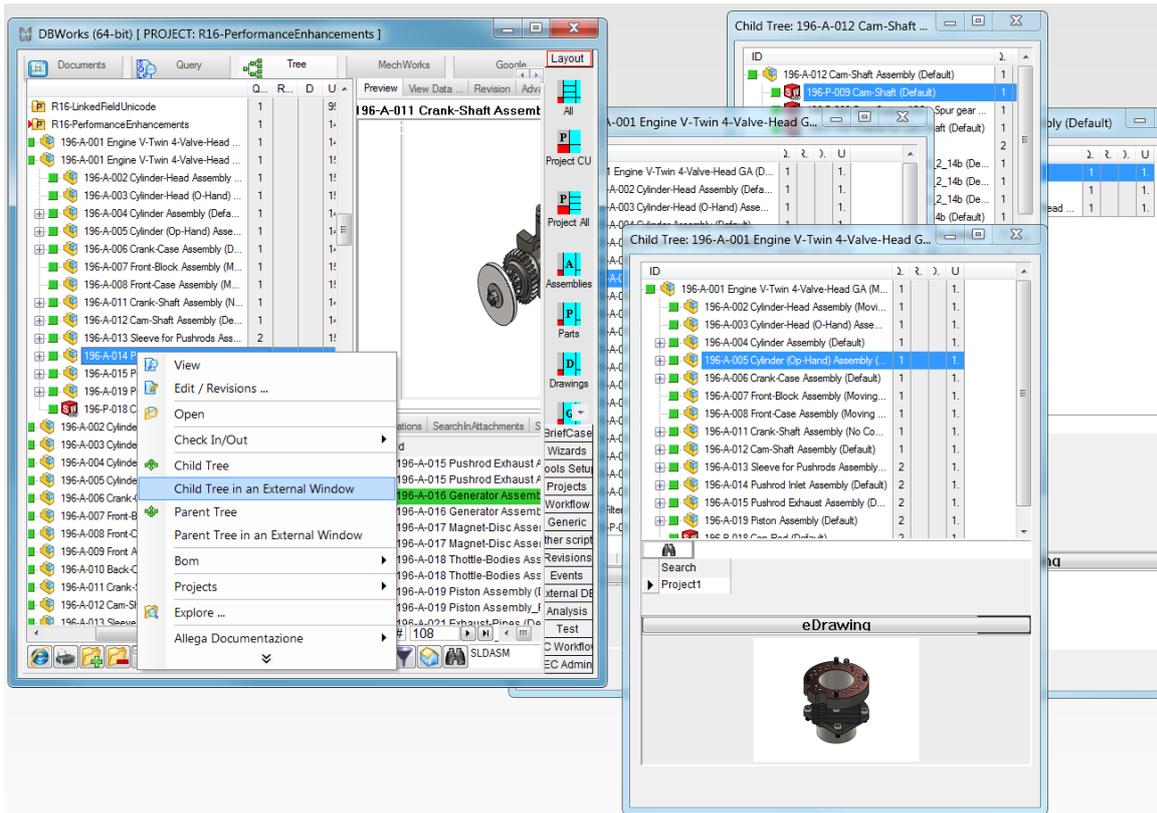
When the option is checked, it is only possible to assign the new ID by using the red disk button  for launching the Dataentr.LST (Save Wizard) script.

Browser

Child/Parent Tree Mini Browsers

Two new RMB commands are available for creating Child/Parent Tree mini-browsers in their own Window:

- Child Tree in an External Window
- Parent Tree in an External Window



Notes:

- 1) the Minibrowsers are always on-top of the main Browser
- 2) each Minibrowser is displayed as an Application Window:



DBWPopupHiddenCmds.txt: ability to hide a whole Sub-Menu

It is now possible to hide a whole sub-menu by declaring it with its .MSG identifier, preceded by a @ char.

Example:

Suppose you like to hide the whole *RMB->Grid Display/Print ...* submenu.

Its identifier in the DBWorks.MSG file is:

MENU_GRID_DISPLAY_PRINT

so you need to add the following line to the SCHEMA\DBWPopUpHiddenCmds.txt file:
@MENU_GRID_DISPLAY_PRINT

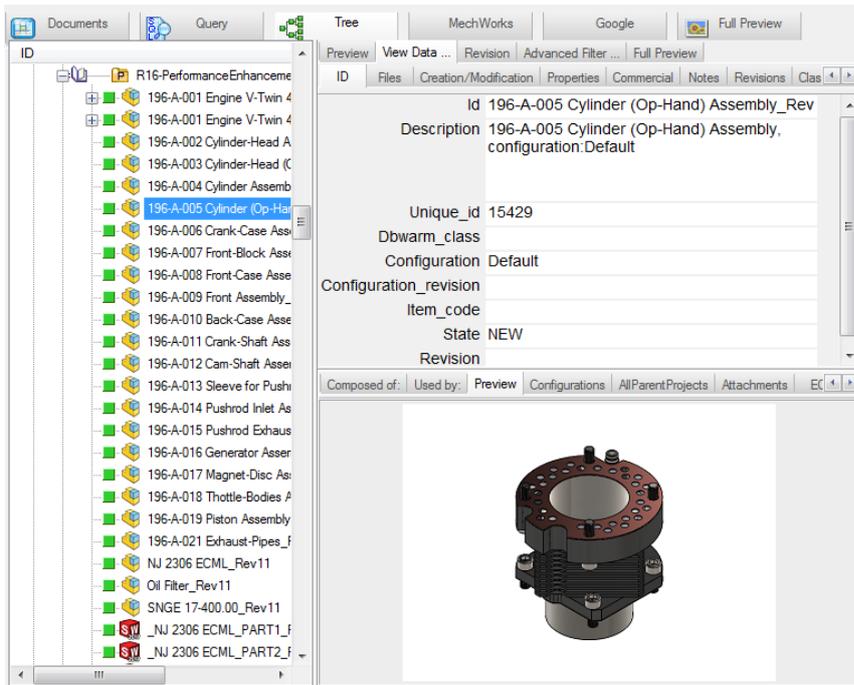
Event Log: Open and Close events registered

The following new Event Log events (language independent) are registered for the Browser's activity:

OPEN_FOR_BROWSING
OPEN_FOR_UPDATING
CLOSE_BROWSER

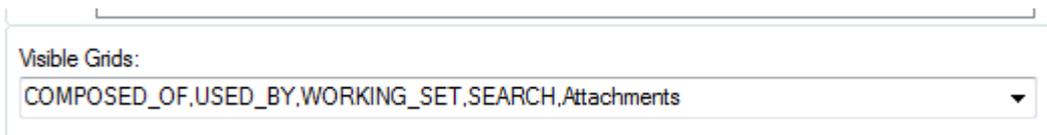
Tree Page: Preview Tab available in the bottom grids area

A new tab "Preview" is available in the bottom grids area.
The new tab allows the display of the Document Metadata and Preview at the same time.

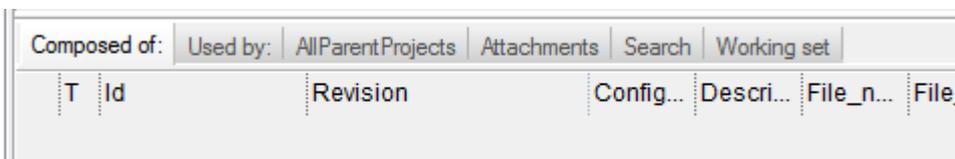


Tree Page: Visible Grids

It is now possible to selectively display specific Grids in the Tree Page.
A new Option named "Visible Grids:" is available at the bottom of the *User Interface->Tree* set of Options.
The Option can be filled with the identifiers of the Grids that must be visible in the Tree Page interface.
When the Option is empty, ALL the Grids will be available.
All the LST\OnCustomQueryTab_xxx.LST are available in the choice combo box.
For example, with the following setting:



the Grids area of the Tree Page User Interface will appear as:



Notes: it is not possible to control the ORDER of the Grids, but only their visibility.

Trees: new sub-option: [X] Show descriptions in the Trees -> [X] Show ONLY description

The new sub-option "[X] Show ONLY description" allows the displaying of only the DESCRIPTION field for every Document.

Database Analysis Utility

R17 Enhancements

A rich set of enhancements has been implemented in the MechWorks PDM Database Analysis Utility.

A detailed documentation of each enhancement can be found in the document *%InstallationPath%\Database Analysis Utility - What's New R17.PDF*

Data Input Form

"disabled" directive: possibility to declare a list of DBWArm Groups

It is now possible to declare a list of DBWArm Groups after the "disabled" directive in the SCHEMA\DataEntr2.txt definition file.

The list must be:

- a) enclosed between square brackets
- b) composed of the DBWArm Group names without any blank or comma character, and without the prefix "DBWorks "

Example:

DataEntr2.txt:

...

Commercial

```
CATEGORY
SUPPLIER_ID
CLIENT_ID
COST disabled[Trainee/Manager]
MAKE_BUY
```

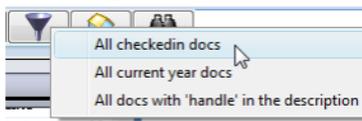
...

With the above example, the field COST will be disabled only for the members of the DBWArm Groups "Trainee" and "Manager"

Filter: ask for saving it, if not yet

When clicking OK for executing the just assigned Filter, and the Filter is still not saved, MechWorks PDM asks now for saving it as a *.FIL file.

After being saved, the Filter can be quickly executed from the popup menu appearing when RMB the Filter button:

**Properties Import: new sub-option**

The following new sub-option:

Data Input->

[X] Import Custom Properties as field values using mapping file SCHEMA/CUSTPROP.TXT->

[X] Use only mapping file SCHEMA\CUSTPROP_INSERT.TXT for new Documents

is now available for using ONLY the SCHEMA\CUSTPROP_INSERT.TXT mapping file when creating new Documents in the Database.

With the above option not being checked (default: not checked), the CUSTPROP_INSERT.TXT is always added to the mapping after the default CUSTPROP.TXT has already been processed.

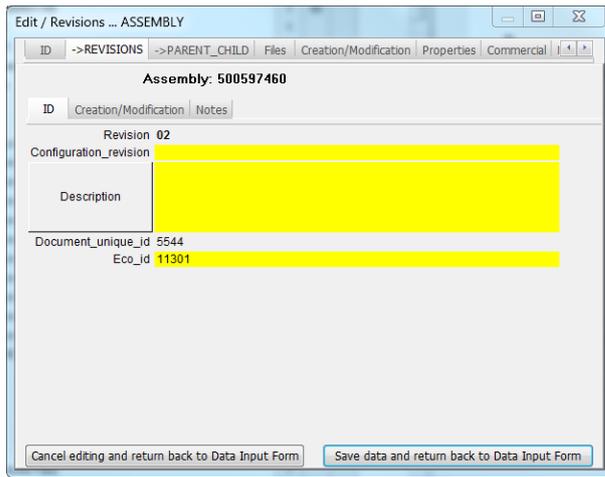
->REVISIONS tab

It is now possible to declare a ->REVISIONS tab in the SCHEMA\DataEntr2.txt definition file; when clicked, the new tab will display/edit the current REVISIONS record.

Notes: the intent of this functionality is to provide a quick view/edit mode for the REVISIONS record; any other operation must be done from the full REVISIONS Input Form (available when clicking the [Revisions] button at the bottom of the form).

Example:
Dataentr2.txt

```
...
ID
  ID
  DESCRIPTION 75
...
->REVISIONS
->PARENT_CHILD
Files
  FILE_NAME
...
```

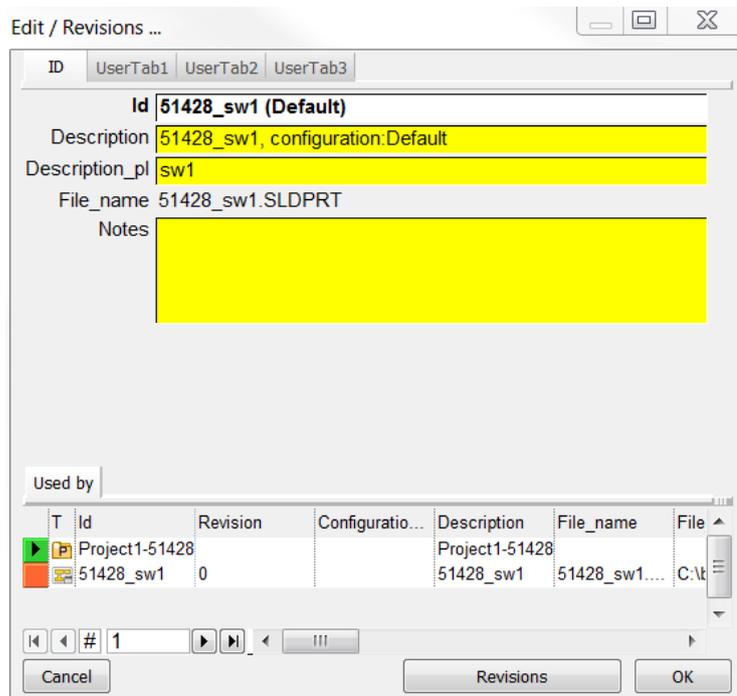


DotNet Custom Control tab

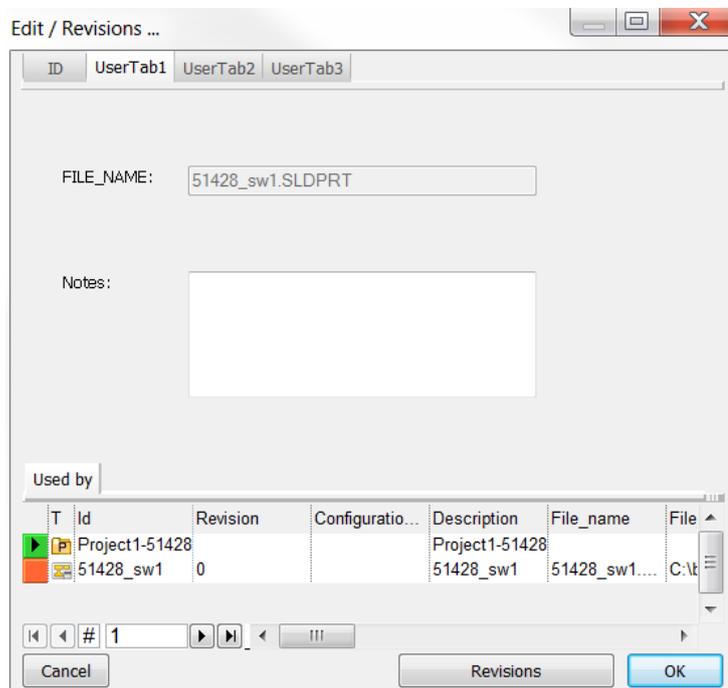
It is now possible to add customized tabs to implement a new data input fields management. For each new tab, a .Net Custom Control must be provided for taking care of managing the alignment between MwPDM Data Input fields from/to managed custom fields. The customizations can be declared in *SCHEMA\DataEntr2.txt*, *SCHEMA\RevDEntr2.txt* and *SCHEMA\LKDT_DATAENTR_<table name>.TXT* definition files indicating the tab name, the implementation module and the implementation class. For example:

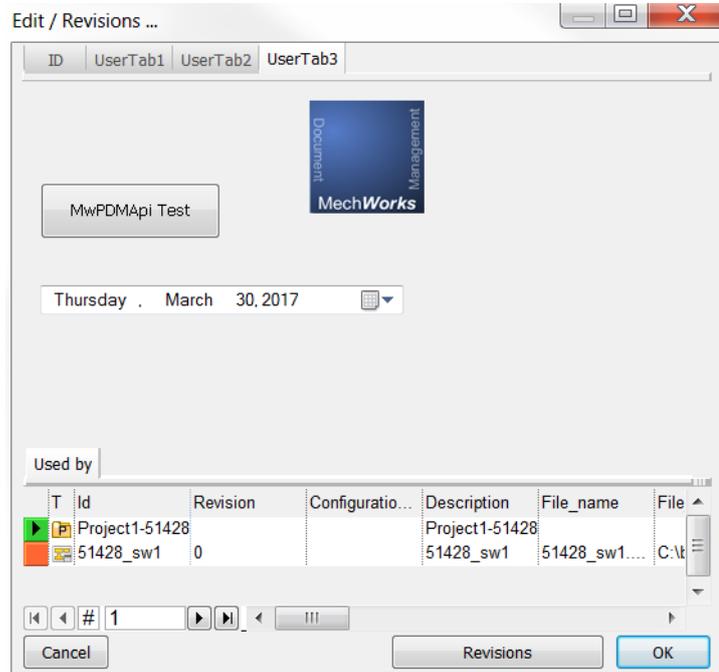
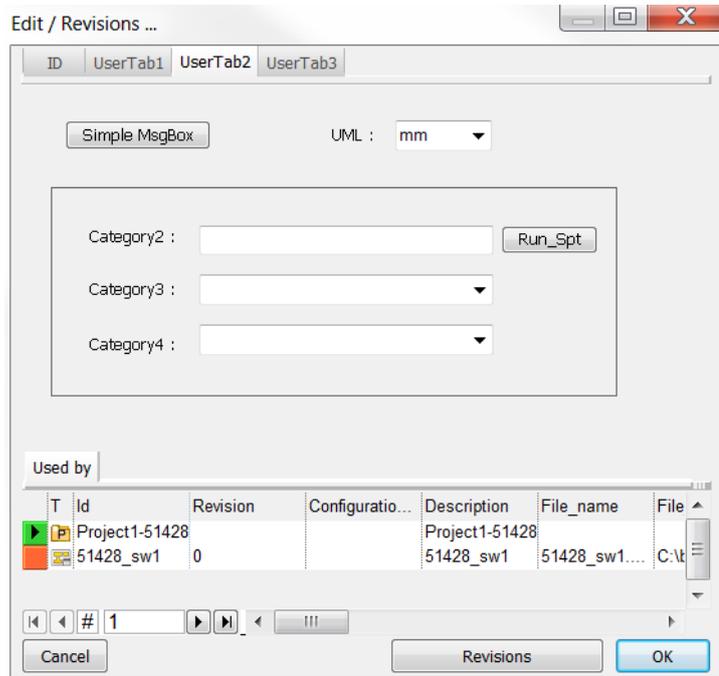
```
...
UserTab1
  MwPDMDataInputControl.dll
  UserControlTab1
UserTab2
  MwPDMDataInputControl.dll
  UserControlTab2
UserTab3
  MwPDMDataInputControl.dll
  UserControlTab3
...
```

At run time, opening the data input dialog, three new tabs will be shown (“UserTab1”, “UserTab2” and “UserTab3”), loading their implementation from the MwPDMDataInputControl.dll module (to be placed in *LST_DIR*, otherwise the full pathname must be provided) according to their definition class (UserControlTab1, UserControlTab2 and UserControlTab3 respectively).



The customized area overlaps the data input fields area as follow:





The images refer to the example project available in *LST_DIR\DotNETAPI\MwPDMDataInputControl* folder.

At implementation level, the *UserControlTab1*, *UserControlTab2* and *UserControlTab3* classes are defined as “User Control” (to add a new one: select the project -> Add -> User Control) and they implement the *MwPDMApi.ICustomControl* interface to have a powerful integration.

The *ICustomControl* interface provides the following methods:

- **UpdateData**: to implement the alignment between MwPDM Data Input fields from/to managed custom fields. The *PDMTtoUserControl* input parameter identifies the alignment approach:
 - true (alignment MwPDM -> User Control): required field values must be acquired from MwPDM by the control. The *GetFieldValue* method (available from the *DataForm* subsystem) retrieves field value and through the *ShellResult* object, it is possible to get all additional information (“@FIELD_TYPE”, “@FIELD_CHOICELIST”, “@FIELD_ENABLED”, “@FIELD_READONLY”, ...) to implement ad hoc management;
 - false (alignment User Control -> MwPDM): changed User Control values must be notified to MwPDM through *SetFieldValue* method (available from the *DataForm* subsystem);

- **ValidateData**: to perform a pre-OK validation of the UserControl specific data. The OK execution continues only if all registered controls return TRUE in their data validation. When a registered control returns FALSE, the validation and OK-execution are interrupted and the involved tab is shown;
- **Commit**: to execute custom code when OK is pressed (all validations are ok);
- **Cancel**: to execute custom code when Cancel is pressed.

Currently customized tabs are not shown in the TreePage browser "View Data" tab and it is possible to add up to 10 customized controls.

Data Input Validation

Not Null Fields Conditions

It is now possible to declare specific conditions for each field listed in the "Data Input->Not Null Fields" options. For declaring a condition, a field must be followed by a / (forward slash) char, and by an **expression criteria**, following the same rules of the "Allow NULL fields when" option, when used with the @EXPR key.

Example:

Suppose we want that the field CATEGORY2 can be NULL for Documents where the ID begins with a 0 or a 1. The standard not NULL field declaration would be:

```
DOCUMENT . CATEGORY2
```

With the new feature for supporting conditional expressions, it will become:

```
DOCUMENT . CATEGORY2 / "ID=0*" OR "ID=1*"
```

Please note the double apex " for enclosing any single criteria.

As for the other @EXPR syntax, the supported operators are **OR** and **AND**

The condition field (in this example the **ID**) must belong to the same database VIEW where the not null field (in this example CATEGORY2) belongs to.

When used with the REVISIONS table, the condition field must belong to the REVISIONS table as well.

Conditional checks between the DOCUMENT and the REVISIONS table are not supported.

With the above settings, when used in the "Not null fields on revision approval.", for the following documents:

ID

00000000

11111111

22222222

it will cause the 00000000 and 11111111 to be approved, while the 22222222 will have its approval denied.

DBInventor

DBInventor Save-As: Used native Inventor Save-As Dialog

The DBInventor Save-As shows now the native Inventor Save-As Dialog, that includes the list of Inventor Projects on the left side.

Added support for Doc Summary Info set in BomTitle.txt

It is now possible to map any database field into the Inventor Doc Summary Info Properties:

Category

Company

Manager

by using the prefix

Inventor@DocSummaryInfoProperty@

Example of BomTitle.txt:

...

COMPANY_ID

"Inventor@DocSummaryInfoProperty@Company"

CATEGORY

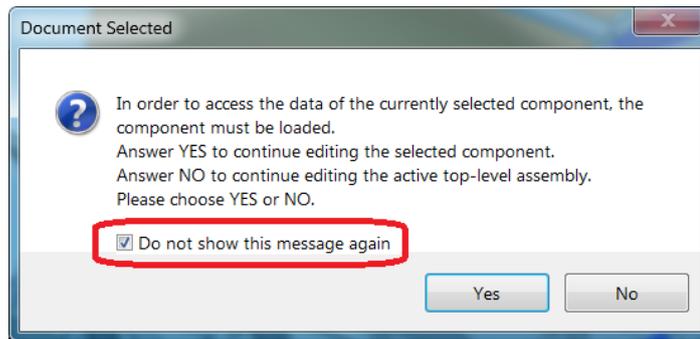
"Inventor@DocSummaryInfoProperty@Category"

...

DBSolidEdge

Selected Component loading warning message: added checkbox for not showing the message again

A checkbox has been added for not showing the warning message again when needed to load an assembly:

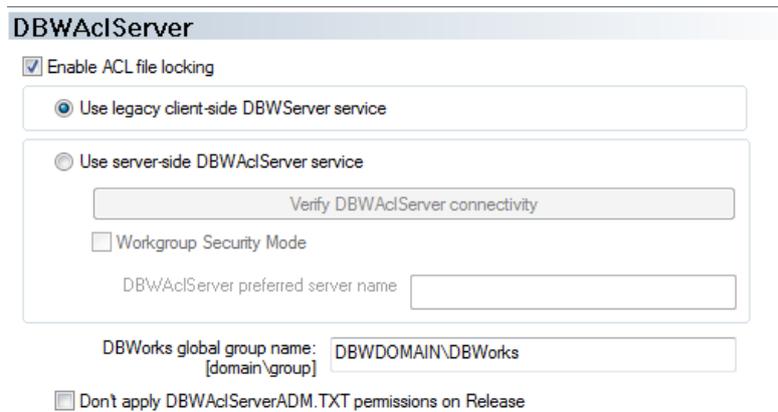


DBWAclServer

Improved Options User Interface

The Option Page have been renamed "DBWAclServer".

Its layout has been changed as follows:

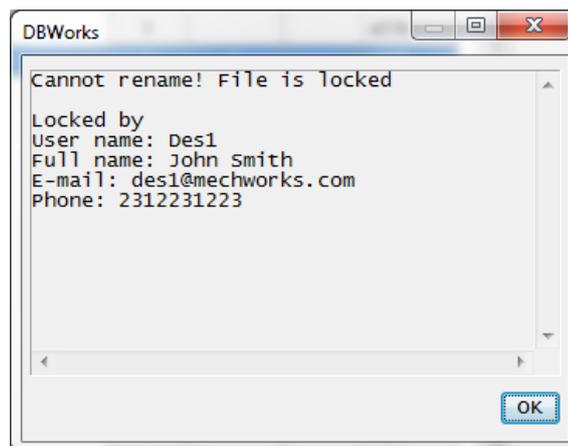


Locking user information available

When user tries to apply a command to a document which has been locked by someone else (i.e. trying to rename a part opened elsewhere), the user receives a locking message that shows the username who has the lock on that document.

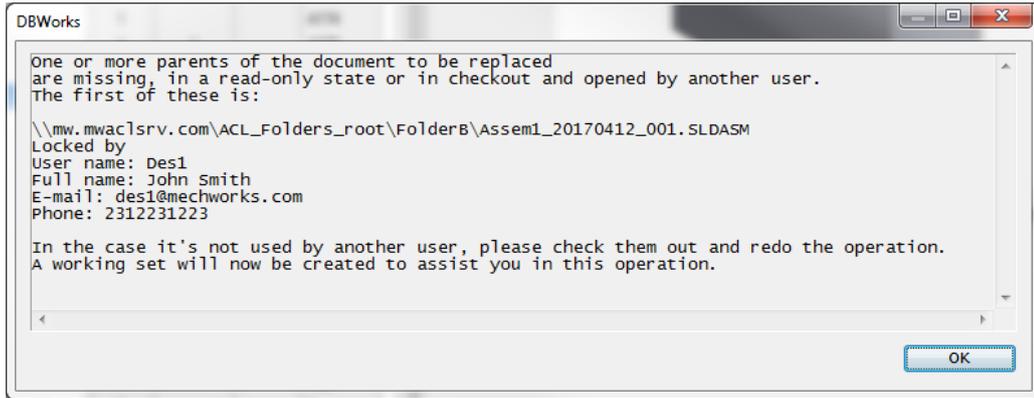
Examples:

1. The rename of a part opened by another user will fail and it results in:



Please note that, if DBWArm is active, full user info (full name, email address and phone) will be shown just after the user name.

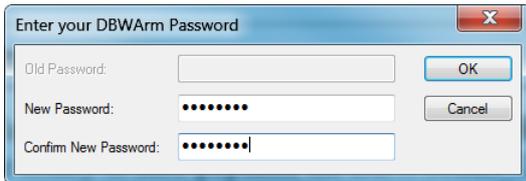
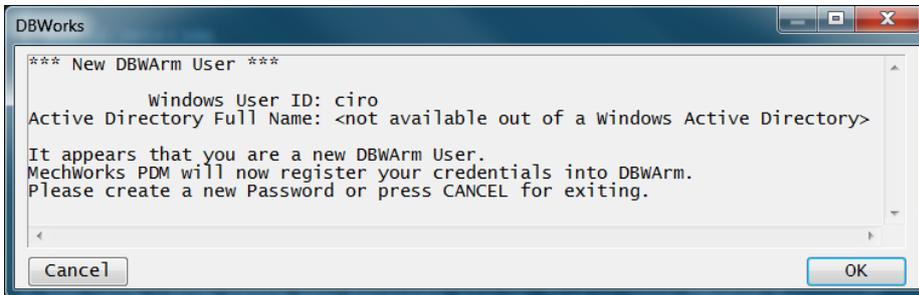
- The replace of a reference in an assembly (opened by another user) will result in:



DBWArm

Automatic Population of the DBWORKS_USERS table

R17 has the ability to auto-populate the DBWORKS_USERS table whenever a new User logs in the PDM. The R17 Setup procedure automatically enables this DBWArm feature in new installations. When a new PDM User logs in for the first time into DBWArm, he is requested to create a new Password. If the Password creation is successful, then the new User ID is registered in the DBWORKS_USERS table.



DBWPopupHiddenCmds.txt in Group Specific Parameters Path

When working with the option *Environment->DBWArm->[X] Use DBWARM Group Specific Parameters* enabled, it is now possible to place different *DBWPopupHiddenCmds.txt* files under each Group Specific Parameters folder. Please refer to the following Help file chapters for more info:
Appendix->Parameter Files->DBWPopupHiddenCmds.TXT
Options->Environment->DBWArm

INITIALS in the DBWORKS_USERS table

A new field named **INITIALS** is now managed if created in the DBWORKS_USERS table. When this new field is existing, MechWorks PDM can create special File Properties with the value of the User Initials.

A new **UserInitials@** prefix is now available in the SCHEMA\BomTitle.txt for declaring Property Names to be filled with the INITIALS value.

Example of SCHEMA\BomTitle.txt:

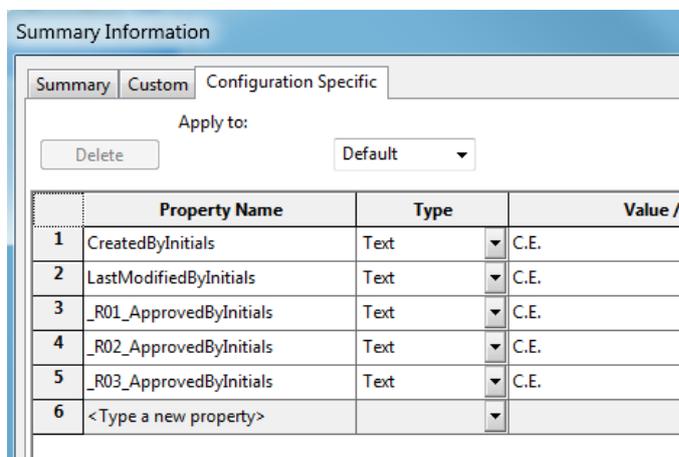
```
...
CREATED_BY      "UserInitials@CreatedByInitials"
LAST_MODIFIED_BY "UserInitials@LastModifiedByInitials"
_R01_APPROVED_BY "UserInitials@_R01_ApprovedByInitials"
_R02_APPROVED_BY "UserInitials@_R02_ApprovedByInitials"
_R03_APPROVED_BY "UserInitials@_R03_ApprovedByInitials"
```

...

In the above example:

- 1) the INITIALS of the User whose name is in the CREATED_BY database field is mapped into the File Property "CreatedByInitials"
- 2) the INITIALS of the User whose name is in the LAST_MODIFIED_BY database field is mapped into the File Property "LastModifiedByInitials"
- 2) the INITIALS of the Users whose names are in the _Rxx_APPROVED_BY automatically generated Properties are mapped into the File Properties "_Rxx_ApprovedByInitials"

The result (writing only the BomTitle.txt defined Properties) is:



New access right: Modification->[X] Delete managed configurations

This access right controls whether the User can delete a Managed Configuration from the database, when deleting a Configuration in the SolidWorks CAD Model.

New Option: DBWArm->[X] Limit Access to Documents not belonging to assigned DBWARM Projects

When this new option is checked (Default: Unchecked), any Document not belonging to the assigned Projects will not be accessible by any functionality, included Preview and Full Preview.

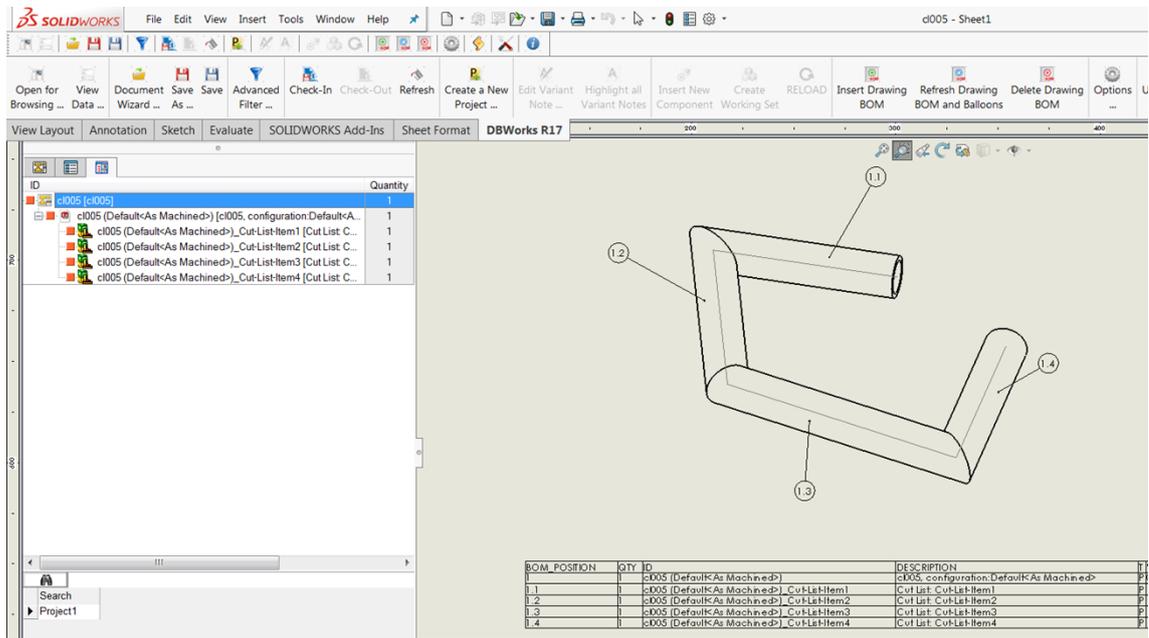
Basically, such Documents can show only their Structure, and they can be navigated through the Child and Parent Tree functionalities.

Drawing BOM

DBWorks Drawing BOM: cutlist items ballooning

With reference to the Insert/Refresh Drawing BOM commands, it is now possible to manage balloons related to cutlist items.

For placed BOM table containing cutlist items, the related balloons are managed accordingly without any additional effort at user level.



Compared to the existing DBSolidEdge integration, with DBWorks no additional specification is required at BOM template level (the NAME_FIELD_LENGTH specification is required only for DBSolidEdge).

New Option: General->Drawings->Drawing BOM-> Macro definition for Balloons

This new option (available only in the SolidWorks Integration) allows a macro definition to be used for balloons text instead of the position number/quantity. An example of macro definition is:

ID \$(FILE_NAME) REV \$(REVISION)

The option is available at user level and it applies to all balloons contained in sheets with Drawing BOM table ("Link BOM and Balloons" or "Link Only Balloons" construction mode) in Drawing Documents.

New Option: General->Drawings->Drawing BOM-> [] Show extra column for ballooned items

This new option (available only in the SolidWorks Integration), when checked (Default: unchecked), add the display of an additional (first) column to the placed Drawing BOM table to mark with a " • " the row items referenced by balloons.

The option is available at user level and it applies to existing Drawing BOM tables ("Link BOM and Balloons" construction mode) in Drawing Documents.

Event Log

New field APPLICATION added to the EVENT_LOG table

A new field named APPLICATION (for all the supported languages) is now available in the EVENT_LOG table (for legacy systems, it can be added as VARCHAR(30) to the EVENT_LOG table).

It is filled with the name of the Application (*DBWorks, DBInventor, DBSolidEdge, MechWorks Standalone Client*) that creates each event.

Options modifications are now logged into the EVENT_LOG table

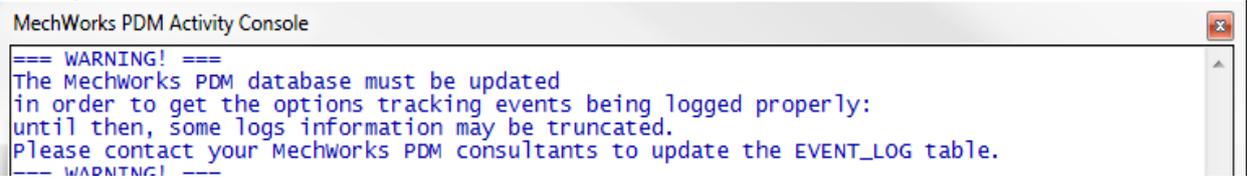
Three new event actions have been introduced: *OPTION_CHANGED*, *OPTION_ADDED* and *OPTION_DELETED*. Any modification made to the global parameters via the option panel are now recorded into the EVENT_LOG table. Administrator users can see the events with the PDM Event Log Viewer admin tool:

USERID	ACTION	DOCUMENT	EVENTDATE	EVENTTIME	EVENTID	ACTION_ARG
Silvio-Adm	OPTION_DELETED	C:\MechWorks_Pdm_Server\DBWAPP.PAR	2017/06/12	17:03:59	28733	NO_CHILD_TREE_DOCUMENT_NAME: [fileB]
Silvio-Adm	OPTION_ADDED	C:\MechWorks_Pdm_Server\DBWAPP.PAR	2017/06/12	17:03:59	28734	NO_CHILD_TREE_DOCUMENT_NAME: [fileC]
Silvio-Adm	OPTION_ADDED	C:\MechWorks_Pdm_Server\DBWAPP.PAR	2017/06/12	17:03:59	28735	NO_CHILD_TREE_DOCUMENT_NAME: [fileD]
Silvio-Adm	OPTION_CHANGED	C:\MechWorks_Pdm_Server\DBWAPP.PAR	2017/06/12	17:03:59	28736	SHOW_DRAWINGS_IN_PROJECT_TREE: [0] -> [1]

The column ACTION_ARG will show the option being modified (changed, added or deleted) with the values.

In order to contain potential long values, especially when changing options where both old and new values are written, the column ACTION_ARG has been increased its size from VARCHAR(80) to VARCHAR(512).

You have to ask your IT consultant to adapt the column. In case you did not you'll get a warning message in the PDM Activity Console:

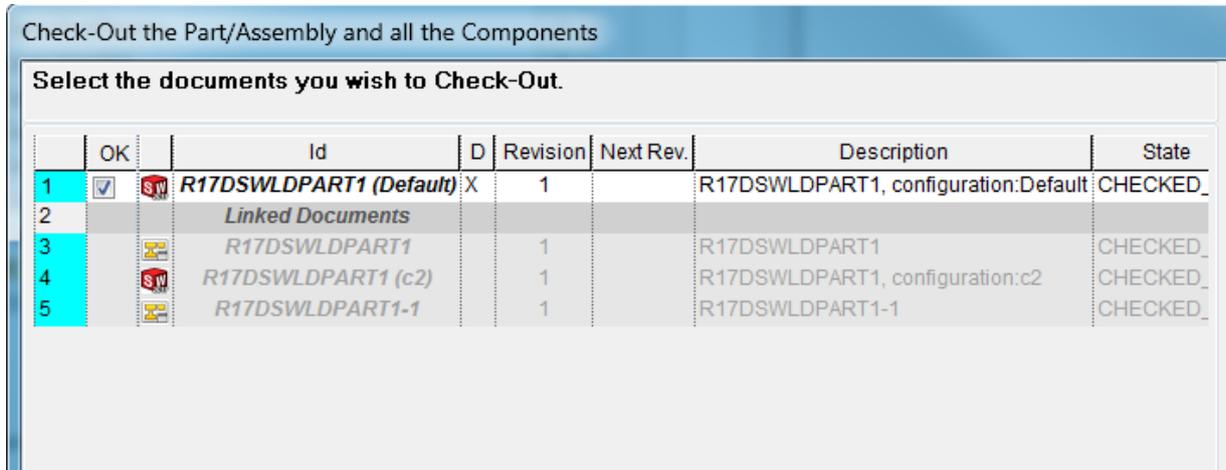


Link Mode

New Option: [X] Include preview of Linked Documents in Recursive Revision Operation Dialog

When checked, the Document Selector Dialog shows, only for additional info, also the list of Documents that are Linked (following the rules of the Link Mode) to the Documents that will be processed for the Recursive Revision Operation.

Such list is always displayed after any selected Document, and separated by a gray bar:



MwLicense

Improvements to the logging system

To avoid redundant log information at server side, the PING registrations are now ignored by default: if needed, it is possible to restore the complete dump setting MWLICENSEMGR_CREATE_LOG 2 in MwLicenseManager.config. At client side, the PING registrations are now reduced (1:10).

MwPDMApi

WorkingSet Create/Append/Remove enhancement

With R17, the existing WorkingSetCreate, WorkingSetAppend and WorkingSetRemove methods can accept a list of document unique_ids overcoming the DBWShell internal buffer limitation.

Outlook Integration

.HTM Preview Files automatically deleted

.HTM preview files are now automatically deleted if the DBW_SAVE_PREVIEW_AS_HTM=1 option is enabled in the PAR\MSOutlook.PAR parameter file

Performances

.TREE creation performance enhancement

The creation of .TREE files is now between 5 to 6 times faster than R16

COLLATE directive used in the Search Queries

In order to improve the performance of the Search Queries, by default the LIKE operator is now prefixed with a COLLATE SQL_Latin1_General_CP1_CI_AS directive.

If for any reason this new behavior has some conflicts with other procedures used by the customers, it is possible to restore the old behavior by adding the following line in the DBWCONN.PAR:

```
DBWORKS_SEARCH_LIKE_OPERATOR LIKE
```

DBWArm: Search within the assigned Projects

The Search performance has been greatly enhanced when thousands of Projects are assigned to a single User and the Search Results are restricted to the DBWArm Assigned Projects

DBWGZIPR17.EXE: Non-compressed Revision Files

With R17 Revision Files are no longer compressed (zipped in .GZ format).

The reason of such change is because most of the today's applications (example SolidWorks, MS Office, etc.) already have a compressed file format for their documents.

Avoiding the file compression gives a significative performance enhancement (between 10 to 20 %) for the Revision Life Cycle processes.

The new DBWGZIP.exe is named DBWGZIPR17.exe, and used if existing in the BIN directory, or side-by-side with the DBWAclServer.exe service.

The DBWGZIPR17.exe is able to correctly uncompress the .GZ files created with the previous version of DBWGZIP.EXE, but creates a copy of the original file, even if still named with the .GZ extension (this for compatibility with all the "core" procedures handling .GZ files).

DBSolidEdge: Recursive Check-out with opened assembly

With R17, when working with assembly opened in memory, some redundant internal checks are now avoided to have better performance

New General->Drawings->[X] Display Detached Drawing Symbol in the User Interface

This new option (available only in the SolidWorks Integration) allows the disabling of the display of Detached Drawing Symbols in the User Interface.

Such feature, introduced with R16, requires a physical access to the Drawing File for getting the "detached drawing" info, and, in some slow network environment, it can cause small delays when displaying Drawing Documents.

New Open/Save->Save sub-option: [X] Always save suppressed components->[X] Show as grayed in the Trees

(**SolidWorks / SolidEdge only**) - This new option, when unchecked (Default: checked), avoids the display of suppressed components as grayed in all the Trees - with some very large assemblies, the new feature introduced with R16 (*Suppressed Components color codes available in every Tree*) could cause important delays in the Tree Nodes expansion - in such environments, it is suggested to uncheck the above option

Recursive Approve: unnecessary File Properties update avoided from Checked-out to Released

With the Recursive Approve functionality, when approving a Document directly from a Checked-out (BEING_MODIFIED) state, if the file is not opened in memory, the File Properties are now updated only one time, when changing the status from Checked-in to Released.

Released Database: Add to / Remove from Project

The performance of this functionality has been greatly enhanced when working with a Released Database

Plotting

Improvements to the logging system

- The general log file has been added further information about the files being plotted.
- A new specific log file (named *DBW_PlotDocument <date> <time>.LOG*) has been introduced to store all the information related to the files being plotted and its printing parameters. The file is created with the logging enabled

and is by default placed in the %TEMP% folder but, by setting the USER flag TRACE_CREATE_LOG_IN_USER_DIR = 1, the file will be created in the user folder.

Projects

Improvements to the "Add/Remove All to/from Project" functionalities

The Tree Page functionalities "Add/Remove the node and all the children to/from the project ..."

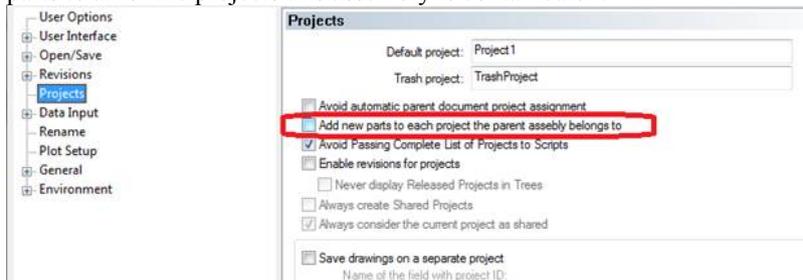


have been improved so that:

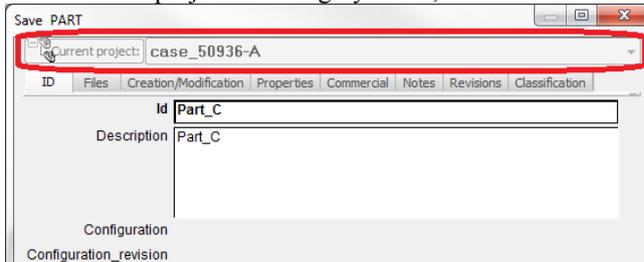
- when adding to a Project, if a Document is already belonging to that Project, it will not be listed in the Confirmation Dialog
- when removing from a Project, if a Document is not yet belonging to that Project, it will not be listed in the Confirmation Dialog

New option: [X] Add new parts to each project the parent assembly belongs to

This new option has been added to allow, during the save process of an assembly having new parts, to add these new parts to all of the projects this assembly is contained on:

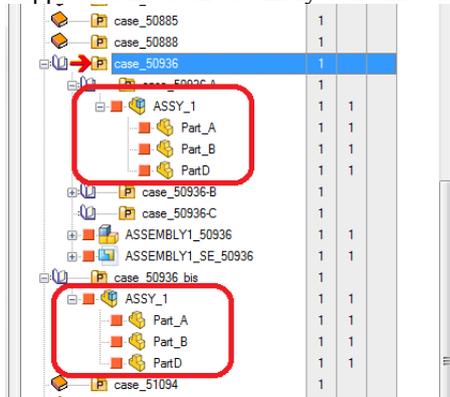


During the save process, if the user set this option and requested to provide input, the dialog related to the new parts will show the project section grayed out, since there won't be the choice to select the project:

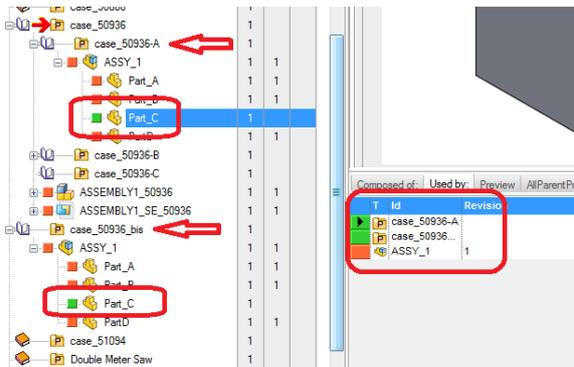


Example:

Suppose to have an assembly contained in two projects:



Adding a new part and then saving the assembly, with this option on and the traverse assembly on too, the new part will be added in both projects:



New option: [X] Avoid Documents without Projects

This new option (Default: Checked) avoids the existence of Documents not belonging to any Project. This makes more flexible the limitation introduced with R16.

Remote Access

REPLICATION_PARTNERS alignment among different Configuration Records

R17 forces now the alignment of the REPLICATION_PARTNERS field among all the brother Configuration Records.

It alters the *Options->Environment->Configurations->Align fields* by automatically adding the REPLICATION_PARTNERS field is not already listed.

Revisions

"Approve" available also for Checked-out Documents

The *RMB->Check In/Out->Approve* functionality is now available directly also for Documents in BEING_MODIFIED (Checked Out) state.

The functionality executes in sequence a Checkin and then an Approve of the Document.

This allows to fill in the Checkin Input Form before the Approve.

Of course it is possible to avoid the Checkin Input Form by setting the proper option in the User Interface options section.

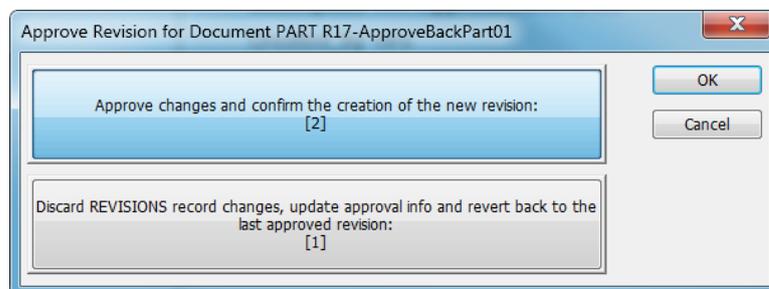
"Approve Revision" dialog: message improved for the Previous Revision button

Depending from the status of the following options:

Revisions->Approval->[] Update Previous Revision Record on Previous Revision Approval

Revisions->Approval->[] Update Approved_By and Approval_Date on Previous Revision Approval

the "Approve Revision" dialog shows different messages in the Previous Revision button:



BOMTITLE.TXT: _RXX_ Properties automatically managed

When working with the option:

Data Input->[X] Write only Properties defined in SCHEMA/BOMTITLE.TXT

it is no more necessary to declare the _RXX_ Properties in the SCHEMA\BOMTITLE.TXT definition file.

The _RXX_ Properties are now automatically written as File Properties, if not mapped explicitly in the BOMTITLE.TXT (for example for reassigning their names)

New option: Revisions->Checkin->[X] Mark as 'dirty' any Parent Document on Checkin

Notes: the option is enabled ONLY when the *Revisions->Approval->[X] Mark as 'dirty' a parent revision on a child new revision approval* is checked

When checked, on a Checkin, or when a new Revision is created, any Parent Document is marked with DIRTY_REVISION_FLAG=1 and displayed as 'dirty' Document in the User Interface.

Notes #2: once a Parent Document is marked as dirty, it will stay dirty until a state change (i.e. checkout or new revision) will be applied to the Parent Document itself - the DIRTY_REVISION_FLAG of the Parent Document is NOT cleaned when unchecking-in the Child Document that has invalidated it

New sub-option: [X] Accept approval if ... <field> = <value>

This is a new sub-option of the

Revisions->Approval->[X] Avoid approval if children are not released

When checked, the expression assigned in the <field> = <value> options is evaluated and, if true, it will not stop the approval process.

The <field> box can also be assigned as @EXPR; in such case, the <value> can be an expression like "ID=00*" AND "CONFIGURATION=Pipe"

The syntax of such declaration is ruled by regular expression criteria; every condition must be written between " " chars.

New sub-option: [X] Except Dirty Documents

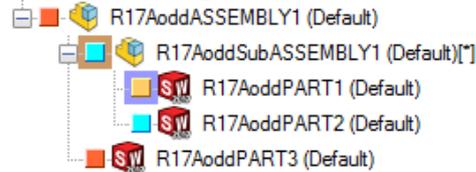
This is a new sub-option of the

Revisions->[X] Never Open Documents on Recursive Checkin/Approve Operations

When checked, it forces the opening of any Document in DIRTY status (with its flag DBW_DIRTY_REVISION_FLAG set to 1)

Example:

With the following case:



when approving the top-level assembly R17AoddASSEMBLY1, the R17AoddSubASSEMBLY1 is opened and updated even if in checked-in status, because it is in a DIRTY status

New sub-option: [X] Except when advancing from a Minor to a Major revision

This is a new sub-option of the

Revisions->Approval->[X] Undo the checkout when no changes in the document on a recursive approve

When checked, when the Advanced Revision Schema is enabled and when the *Revisions->[X] Use OnCheckIfMajorRev.LST script* is enabled, the PDM looks if the Current Revision is a Major Revision and if the Previously Approved Revision is a Minor Revision, and avoids the Uncheckout operation if such condition is met. This new sub-option is useful for tagging an approved Minor Revision as Major, so just creating a new Major Revision and approving it without any change.

MACRO Support in Revision Outputs

It is now possible to insert a MACRO definition (see the Help file for the syntax and the limitations of the Macros in the PDM) in the SCHEMA\DBWRevisionsOutputFileExtensions.TXT, for defining a rule for naming the Revision Output File that will be created.

The MACRO must also define the extension for the Output File.

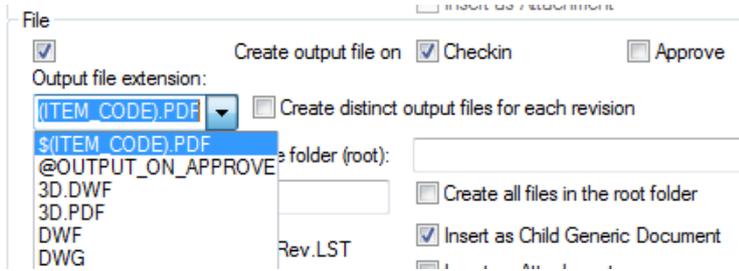
Example:

```

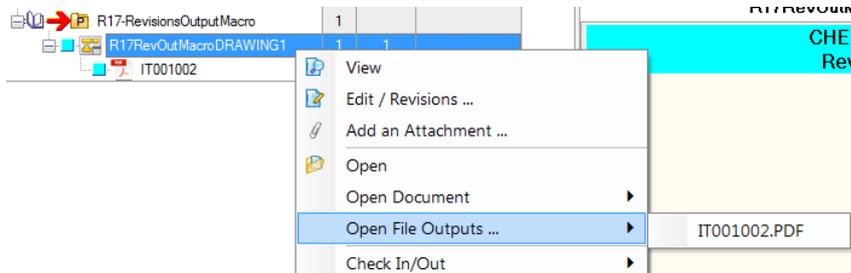
;-----
; DBWRevisionsOutputFileExtensions.TXT
;
; DBWorks Revisions Output File Extensions File
;
;-----
; EXTENSION <extension>
MACRO $(ITEM_CODE).PDF
EXTENSION PDF
...
SCRIPT OUTPUT_ON_APPROVE.LST

```

With the above definition, you can now select the MACRO in the Revisions Outputs options:

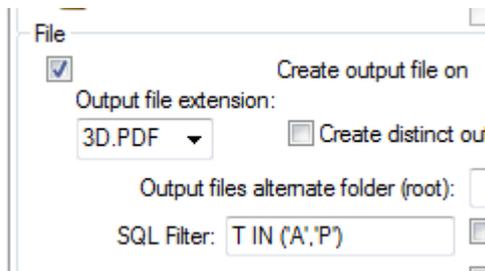


and obtain a PDF file, with the name and the extension you defined through the MACRO, to be created as Revision Output (in this example it is assumed that the value of ITEM_CODE is IT001002)



PDF 3D Support in Revision Outputs

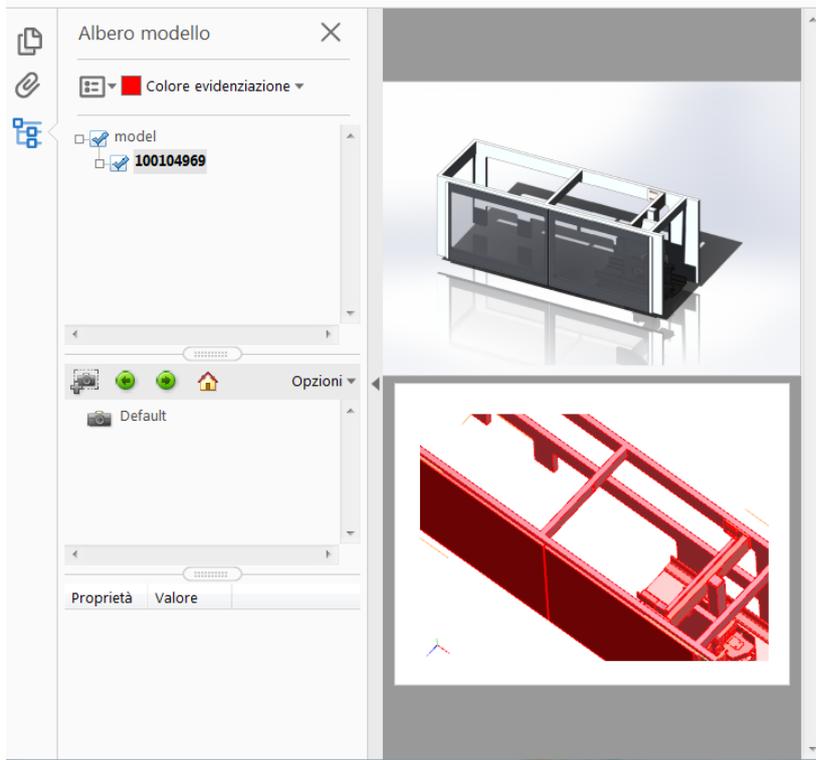
The new extension **.3D.PDF** is now available in the output file extension option:



Notes:

- 1) the SQL Filter must be set as in the picture above.
- 2) The particular PDF file created by MechWorks PDM (with extension .3D.PDF) is composed by TWO pages:
 the upper page contains the static image (like a normal PDF)
 the lower page contains the PDF 3D model

This particular page format allows MechWorks PDM to display the static preview of the PDF 3D file.



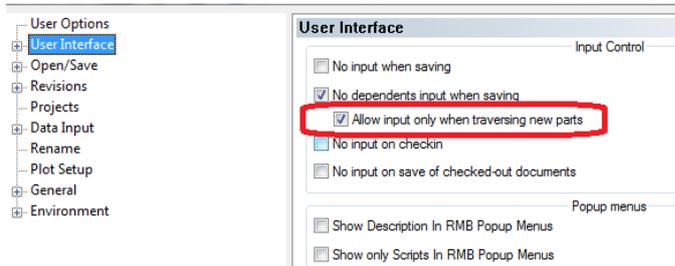
If the static preview is not needed, then the new option:
General->More...->[] Embed static PDF in 3DPDF for preview purposes
 can be disabled (by default it is enabled)

3) **DBInventor only:** a template file named *DBInventor3DPDFTemplate.pdf* must be located in the shared PAR directory - if not found, the default Inventor 3D PDF template file (*%PUBLIC%\Documents\Autodesk\Inventor 20xx\Templates\Sample Part Template.pdf*) will be used

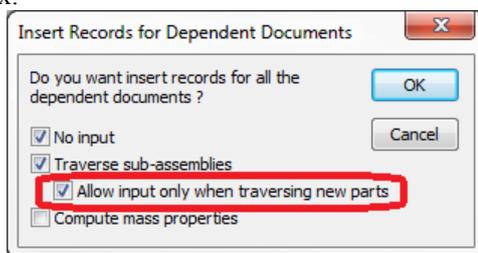
Save Process

New sub-option: [X] Allow input only when traversing new parts

This is a new sub-option of the
Options -> User Interface -> [X] No dependents input when saving
 When checked, the save assembly process will ask input only for all the new parts it contains:



This option is reflected during the save process in the "Insert Records for Dependent documents" dialog, with a new checkbox:



Scripting

Added support for setting/getting option lists

The following option lists (for example the list of Not Null Fields being set in the Options) can now be set/get using the DBWScript.lib API:

```
CHILD_ASSIGNED_DIRECTORY
COMPONENT_NAME_TO_SAVE_WITH_CONFIGURATION
CONFIGURATION_NAME
CUT_LIST_PROPERTY_FIELD
DATA_INPUT_AUTOMATIC_FIELD
DERIVED_CONFIGURATION_NAME
DOCUMENT_FIELD_TO_BE_COPIED_ON_REVISION_APPROVAL
DOCUMENT_MANAGER_FILE_LOCATION
DOCUMENT_NAME_TO_AVOID_LINKING
DRAWING_BOM_BALLOON_DEFS_SW
DRAWING_PART_LINK_MODE_FIELD_TO_BE_ALIGNED
DRAWING_PART_LINK_MODE_FIELD_TO_BE_ALIGNED_ON_CHECKIN
DRAWING_PART_LINK_MODE_TRACK_DERIVED_PARTS_FIELD_TO_BE_ALIGNED
FEATURE_NAME_PREFIX
FIELD_TO_BE_ALIGNED_ON_CONFIGURATION_CHECKIN
HIDDEN_TOOLBAR_BUTTON
MASTER_DRAWING_MODE_CAD_DRAWING_FILE_EXTENSION
MASTER_DRAWING_MODE_FILE_LOCATIONS
NO_CHILD_TREE_DOCUMENT_NAME
NO_DB_DIRECTORY
NO_PARENT_TREE_DOCUMENT_NAME
NO_REVISION_DIRECTORY
NOT_NULL_FIELD
NOT_NULL_FIELD_ON_REVISION_APPROVAL
PREFIX_PROJECT
REVISION_FILE_PATH
SEARCH_FIELD
SHARED_RELEASED_DIRECTORY
SKETCH_FIELD
VISIBLE_TREE_GRID
```

Set

The special @RESET argument must be passed to the DBWSetOption for emptying the list. Then for every call to the DBWSetOption, a new value is added to the list.

Example:

```
DBWSetOption("NOT_NULL_FIELD","@RESET")
DBWSetOption("NOT_NULL_FIELD","DOCUMENT.CATEGORY1")
DBWSetOption("NOT_NULL_FIELD","DOCUMENT.CATEGORY2")
DBWSetOption("NOT_NULL_FIELD","DOCUMENT.CATEGORY3")
```

Get

The new DBWGetOptionList function must be used for getting the list of values of an option

Example:

```
Sub main()
    DBWInit(true)
    ReDim Preserve optionList(1)
    ok = DBWGetOptionList("NOT_NULL_FIELD",optionList)
    for i=0 to ubound(optionList)-1
        MsgBox "not null field = " & optionList(i)
    next
End Sub
```

New DBWShell Command: BomEdit [<unique id>]

This new command allows to programmatically display the "Edit BOM" dialog.

When the <unique id> is not passed as argument, the command works on the currently selected document in the Browser.

Notes: the support for the *BOM_GROUP Substitute Parts for Assemblies* (see related Help Topic) is available only for the currently selected Document in the Browser

Syntax:

DBWShell("BomEdit [<unique id>]")

Optional argument:

<unique id> the UNIQUE_ID of the Document for which the *Edit BOM* functionality is requested

New DBWShell Command: CloseApplication

When invoked, it closes the current application hosting the MechWorks PDM.

New DBWShell Command: IsFakeDocument <unique id> [<parent unique id>]

This new command allows to programmatically check if the document with the specific record's UNIQUE_ID is a FAKE component depending on the PARENT assembly.

When the <parent unique id> is not passed as argument, the command checks on all possible parents.

Syntax:

DBWShell("IsFakeDocument uniqueId [<parent unique id>]")

Example:

```
...
call DBWShell( "CurrentDocument" )
docUid = DBWResult( "@DOCUMENT_UNIQUE_ID" )
call DBWShell( "IsFakeDocument " & docUid)
isFake = DBWResult( "@IS_FAKE_DOCUMENT" )
```

New OnCustomQueryTab ... script output: @HIDDEN_FIELDS

From an OnCustomQueryTab ... script it is now possible to output also a list of fields that must be hidden in the UI. A new keyword @HIDDEN_FIELDS has been added for allowing a list of fields, separated by a comma, to be declared as output.

The following example shows how to hide the FILE_NAME and FILE_DIRECTORY from the LST\OnCustomQueryTab_Attachements.LST script:

```
.VBSCRIPT
sub main()
DBWInit(TRUE)

' the parent document unique id
documentUniqueId = DBWInput("@DOCUMENT_UNIQUE_ID")

' to be used for revision-dependent attachments; still not supported
documentRevision = DBWInput("@DOCUMENT_REVISION")

if documentUniqueId = 0 then
    exit sub
end if

nameFieldT = DBWLookUp("NAME_FIELD_T")
nameFieldDESCRIPTION = DBWLookUp("NAME_FIELD_DESCRIPTION")
nameFieldFILE_NAME = DBWLookUp("NAME_FIELD_FILE_NAME")
nameFieldFILE_DIRECTORY = DBWLookUp("NAME_FIELD_FILE_DIRECTORY")
nameFieldDOCUMENT_UNIQUE_ID = DBWLookUp("NAME_FIELD_DOCUMENT_UNIQUE_ID")

' build the tab query
query = _
"SELECT " & _
    nameFieldT & "," & _
    nameFieldDESCRIPTION & "," & _
    nameFieldFILE_NAME & "," & _
    nameFieldFILE_DIRECTORY & "," & _
    nameFieldDOCUMENT_UNIQUE_ID & _
" FROM DBW_ATTACHMENTS WHERE " & _
    nameFieldDOCUMENT_UNIQUE_ID & "=" & documentUniqueId

' return the query to DBWorks
DBWOutput "@QUERY",query,ForWriting
DBWOutput "@HIDDEN_FIELDS",nameFieldFILE_NAME & "," &
nameFieldFILE_DIRECTORY,ForAppending
```

end sub

New Parameter "0" for the CollapseTree command

It is now possible to collapse the whole Project Tree passing a "0" parameter to the DBWShell("CollapseTree")

Example:

```
DBWShell("CollapseTree 0")
```

New Parameters "showParentTree" and "typeList" for the ShowDocumentSelectorDialog command

Two new optional parameters can now be passed to the ShowDocumentSelectorDialog command for displaying the Parent Tree of the passed unique ids, or for filtering the type of Documents to be displayed

Syntax:

```
call DBWShell("ShowDocumentSelectorDialog title message info includeLinkedDrawings checkForeignDocuments uidList [NoTraverseChildren[NeverReturnLinkedDocuments[uidsToBePreSelected[uidsToBePreDisabled [showParentTree[typeList]]]]]]")
```

where the optionals:

showParentTree can be "0" or "1"

typeList must be a lists of the types T of the Documents that must be displayed, with a format like:
'A','P','D','G','0'
and any combination of the above.

Notes: all the other optional parameters can the "0" if not necessary

Example:

```
Sub main()
DBWInit(TRUE)

listOfUids = "15542"
listOfCheckedUids = "0"
listOfDisabledUids = "0"
showParentTree = "1"
typeList = "'A','P'"      ' display only parent Assemblies and Parts

DBWShell("ShowDocumentSelectorDialog" & _
  " " & chr(34) & "Parent Documents selector title" & chr(34) & _
  " " & chr(34) & "Parent Documents selector message" & chr(34) & _
  " " & chr(34) & "info message" & chr(34) & _
  " " & chr(34) & "1" & chr(34) & _
  " " & chr(34) & "0" & chr(34) & _
  " " & chr(34) & listOfUids & chr(34) & _
  " " & chr(34) & "0" & chr(34) & _
  " " & chr(34) & "0" & chr(34) & _
  " " & chr(34) & listOfCheckedUids & chr(34) & _
  " " & chr(34) & listOfDisabledUids & chr(34) & _
  " " & chr(34) & showParentTree & chr(34) & _
  " " & chr(34) & typeList & chr(34) )

returnedDocumentUniqueIds = ""

Set fs = CreateObject("Scripting.FileSystemObject")
Set tfolder = fs.GetSpecialFolder(TemporaryFolder)
Set a = fs.OpenTextFile( tfolder & "\" & "dbwreslt.in" , ForReading, True )
Dim tokens
Do While a.AtEndOfStream <> True
  line = a.ReadLine
  tokens = Split( line, "=", 2, 1)
  documentUniqueId = tokens(1)
  if returnedDocumentUniqueIds<>"" then
    returnedDocumentUniqueIds = returnedDocumentUniqueIds & ","
  end if
  returnedDocumentUniqueIds = returnedDocumentUniqueIds & documentUniqueId
Loop
```

```
a.Close
DBWMsgBox "Returned document uids =" & vbCrLf & returnedDocumentUniqueIds
End Sub
```

New DBWShell Command: TaskCreate <taskType> <taskWsName> <taskPriority>

This new command allows to start programmatically the definition of a new task to be processed later by the TaskManager.

The TaskCreate method should be used together with the TaskAppend (to append documents to the task definition) and the TaskSubmit (to submit the task definition as a new effective task of the TaskManager) shell methods.

Required parameters:

- < taskType>: task definition type (1 - Checkin, 2 - Approve)
- < taskWsName>: involved working server name
- < taskPriority>: task execution priority (0 - low, 1 - normal, 2 - high)

Syntax:

```
DBWShell("TaskCreate <taskType> <taskWsName> <taskPriority>")
```

Example:

```
DBWShell("TaskCreate 2 dellprecmw01 1")
```

New DBWShell Command: TaskAppend <UIDsList>

This new command allows to append a list of documents to the defined task (see TaskCreate).

Required parameter:

- < UIDsList>: a list of comma separated documents Unique Ids

Syntax:

```
DBWShell("TaskAppend <UIDsList>")
```

Example:

```
DBWShell("TaskAppend 8019,8020")
```

New DBWShell Command: TaskSubmit

This new command allows to submit the defined task (see TaskCreate/TaskAppend shell methods) as a new effective task of the TaskManager.

Syntax:

```
DBWShell("TaskSubmit")
```

Example:

```
DBWShell("TaskSubmit")
```

New DBWStandardLibrary function: DBWGetSQLServerLang

This function returns the language of the SQLServerEngine; it could be useful to adapt date/time format when inserting data into db different from default (English) one.

Syntax:

```
DBWGetSQLServerLang()
```

Example:

```
Lang = DBWGetSQLServerLang()
```

Search

New option: Browser Behavior->[X] Match only the beginning of strings

When checked (Default: unchecked), the Search engine will search only by matching the beginning of any word/string to be searched. The performance of the search is greatly enhanced when using such new option.

With an example:

given the following IDs:

012345

234567

345678

Searching for the string "345":

[] Match only the beginning of strings

Results:
012345
234567
345678

[X] Match only the beginning of strings

Results:
345678

Notes: it is always possible to put the % character in front of the search keyword for getting the full substring search results

With an example:

given the following IDs:

012345
234567
345678

Searching for the string "%345":

[X] Match only the beginning of strings

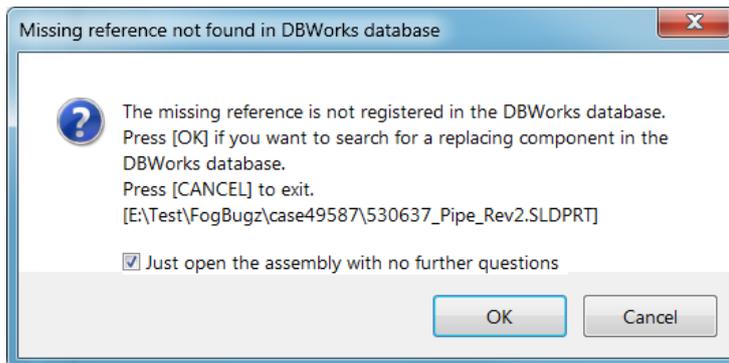
Results:
012345
234567
345678

SolidWorks

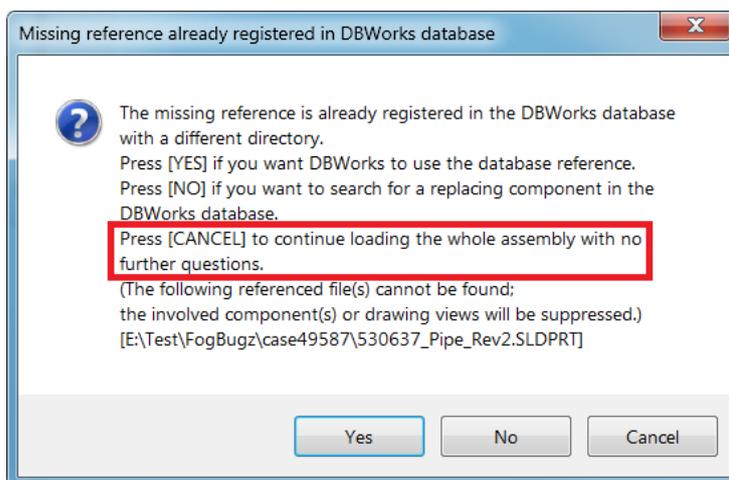
Better handling of missing references

R17 improves the handling of missing references in SolidWorks Assemblies by:

- 1) adding a new check-box "[X] Just open the assembly with no further questions" in the following dialog:



- 2) skipping all the further questions when the CANCEL button is pressed in the following dialog:



Notes: the skipping of missing components is limited to the current OPEN action.

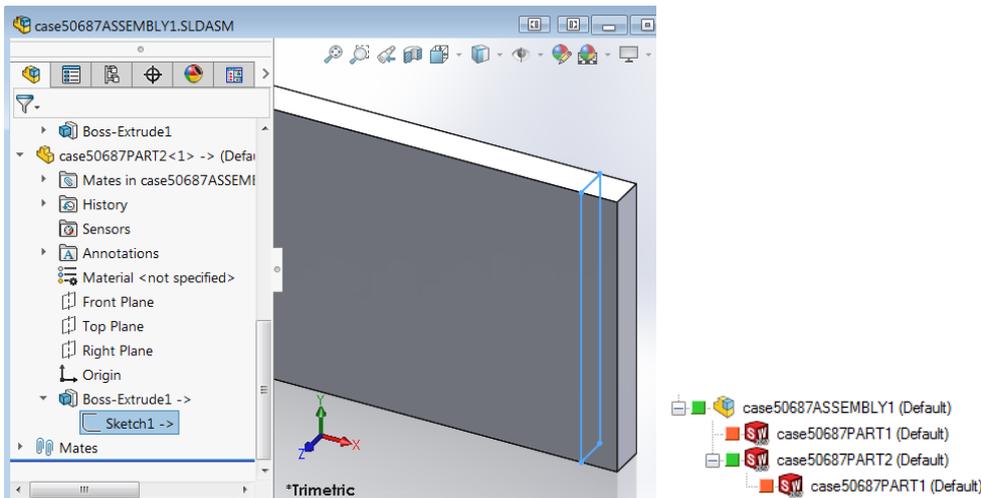
Configurations: improved logic for saving only the <As Welded> and not the <As Machined> Configurations

With the option for saving all the Configurations automatically being activated, in order to allow the saving of the <As Welded> Configurations even when the Active Configuration is <As Machined> and the same <As Machined> is excluded from the Configurations to be saved as Distinct Records (through the setting of the [X] *Save configurations only of components with configuration names ...* option), DBWorks executes now the 'save all configurations' process even if the Active Configuration is <As Machined>.

Derived Parts: In-assembly-context face-to-sketch Parts correctly managed

Derived Parts built in the context of an assembly by projecting the face edges of a Base Part into a sketch of a new Derived Part are now correctly managed.

Notes: this new feature can work ONLY if the *Environment->Derived Parts->[] Track only out-of-context 'base part->derived part' relations* is unchecked



Derived Parts: New option: [X] Skip Mirrored Stocks

By checking this new option, any Part inserted into another Part and mirrored, will not be considered as Base Part for the Derived Part, and consequently no "Mirror Stock"-type relation will be created in the PARENT_CHILD table.

New Option: Environment->[X] Enable CTRL key for executing native CAD 'Save'

When this new sub-option is checked, when pressing the CTRL key, no actions will be executed by the PDM when saving a Document using the SolidWorks 'Save' functionality; the purpose is to allow a very quick save of the current model without any action from the PDM side.

New Option: Environment->[X] Exclude Exported Files

When this new sub-option is checked, when exporting faces/loops/edges into file formats like DXF/DWG/IGES/etc., no action will be executed by the PDM.

Standard Parts

New Option: [X] Allow Standard Parts out of DB Directories

When checked, a Standard Part can be saved into a not-allowed DB Directory.

Notes: in order to be managed, a Standard Parts needs to be saved in the not-allowed DB Directory when the option for not allowing any save out of the allowed directories is NOT activated - in few words, a DOCUMENT record is needed for the Standard Part itself, for being managed by this new option

User Interface

Icons available for RMB Popup Submenus Menus and SolidWorks->DBWorks->... Menu

Many icons have been added for the above cases.

It is also possible to override RMB Submenus icons by placing a .ICO file with the name of the Submenu (but cleaned up of every special character, spaces included, with every special character being replaced by a _ (underscore char) in the SCHEMA\IMG\RMBMENUICONS shared subfolder.

Advanced Filter allows to filter by search fields as well as by any fields

If the option for search fields was active, Advanced Filter would allow to run extensive searches only on those fields

Workflow

New icon for documents that have completed the Workflow process

In a set of documents submitted to the Workflow with the same ECO_ID, when working with the option:
Workflow->[] Allow Document level Workflow approval

not checked, it is now possible to distinguish between documents that still have to move forward in the Workflow, and documents that have finished their Workflow Process.

The new icon  is now displayed for documents that have finished their Workflow Process and are ready to be approved in the PDM when the other documents, belonging to the same ECO_ID, will be ready as well.

Obsolete Options

Environment->[X] Remove SolidWorks 'Tools → Add-ins...' Menu

Notes: with the latest versions of SolidWorks it is no longer possible to programmatically disable a specific menu. SolidWorks provides a tool named "Settings Administrator", but unfortunately, it still does not support the disabling of the Add-ins Menu.