

Intelligent Fastener 4.0

B&W Roadshow 2017

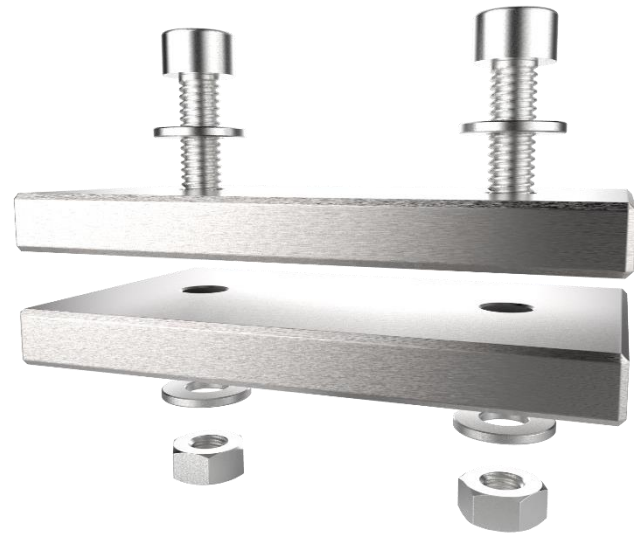


- Technical Draftsman
- KSB pumps and valves – Pegnitz
- Mechanical Engineer – Nürnberg
- Since 2002 B&W Productmanager
 - **Intelligent Fastener Extension** / SMARTLibrary
 - SMARTHolechart
 - SMARTOptics
 - Customer Projects



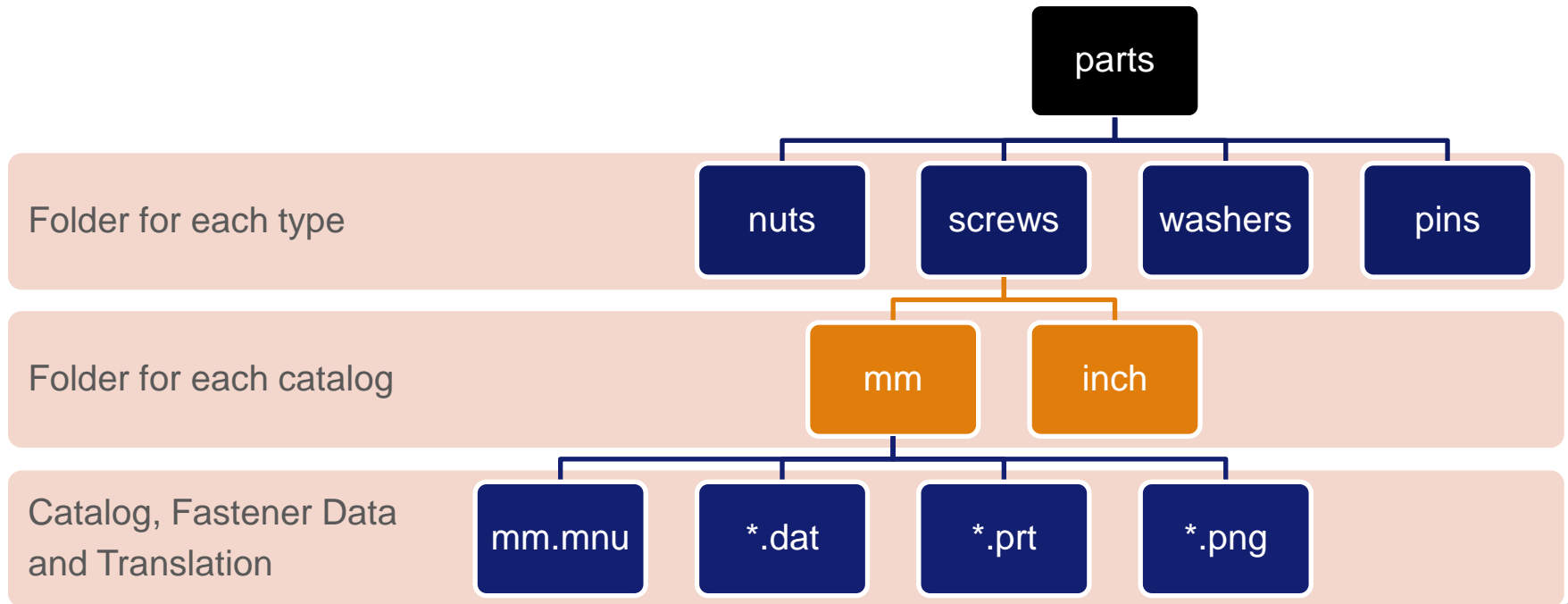
Oliver Gräbner

- **Old vs. new library structure**
- New features
- How to add legacy data
- PTC Community



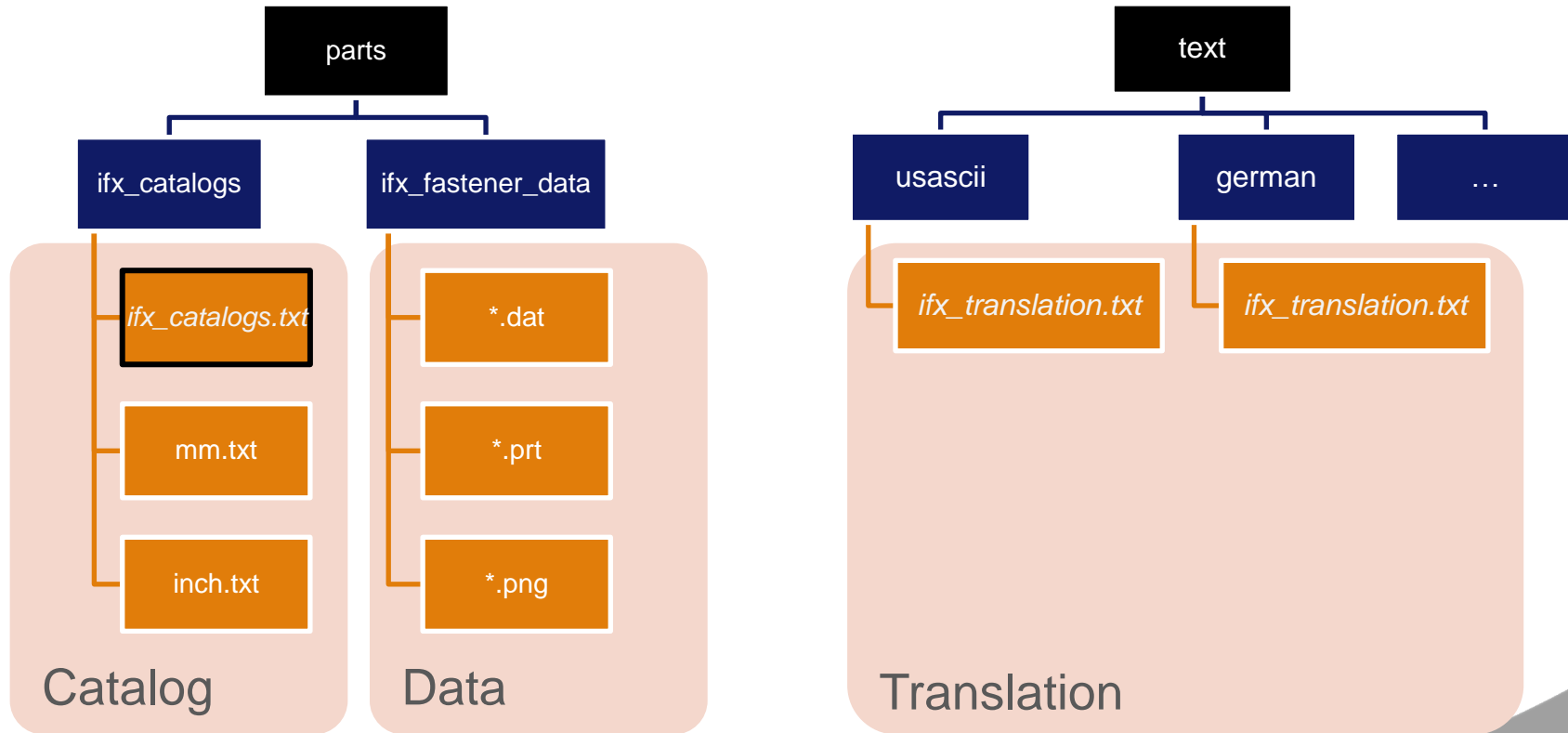
Old Library Structure

All fastener information is scattered over many folders

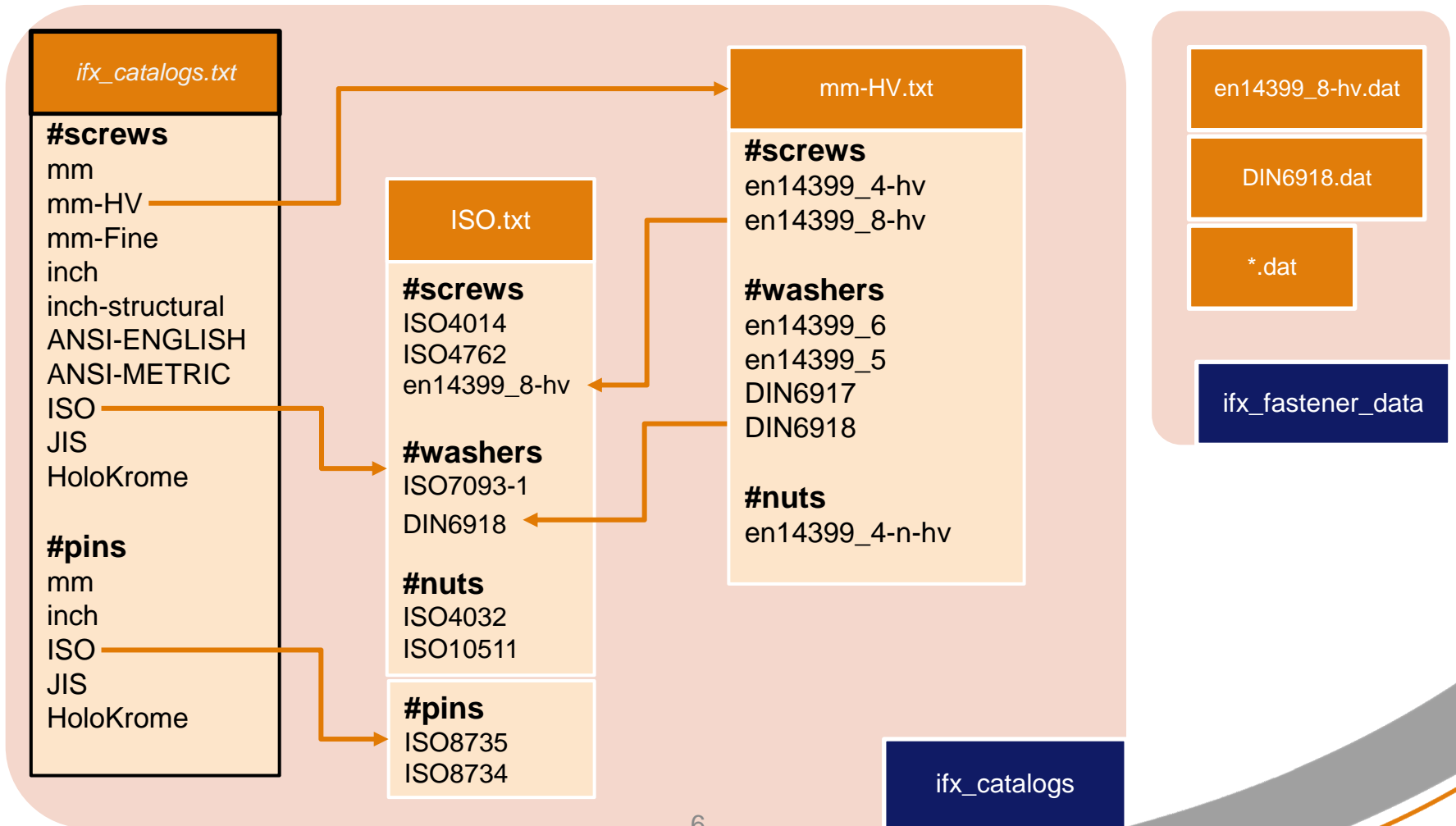


New Library Structure

All fastener information is stored in two folders



Example

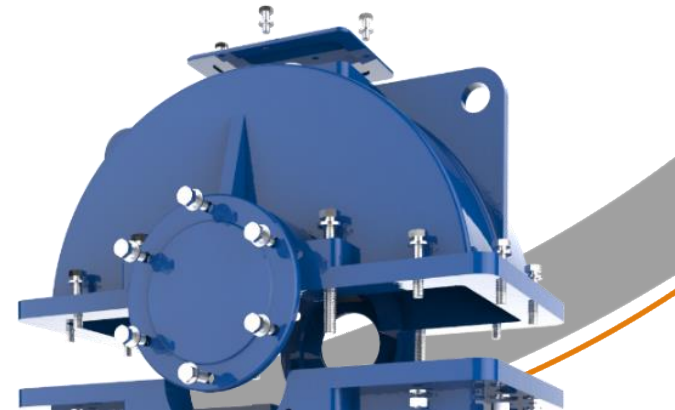


Advantages of the new Library Structure

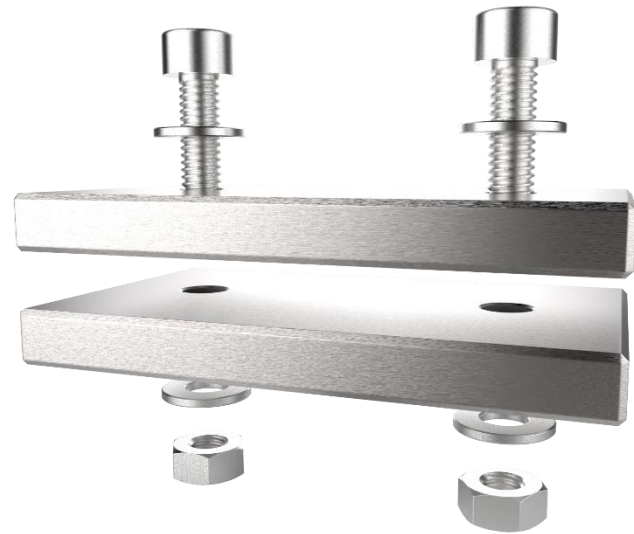
- Customize your catalogs with ease
- Use same *.dat file in different catalogs
- Separate fastener data and translation
- Multilanguage support

Note:

- Set option `USE_NEW_LIBRARY_STRUCTURE` to YES
- A Library converter is available!

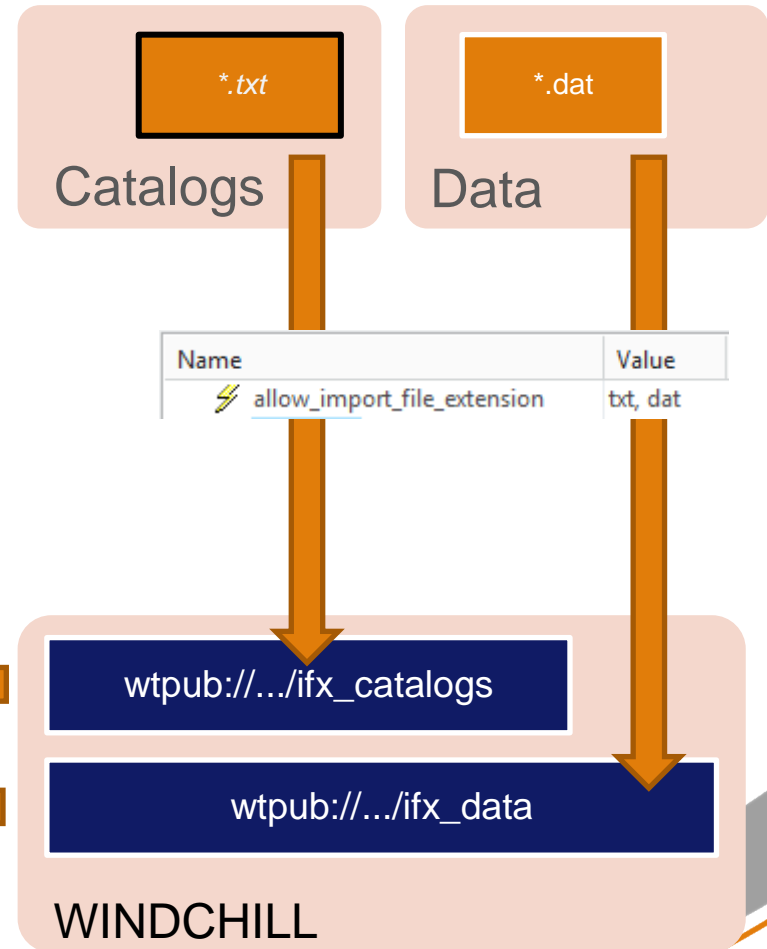
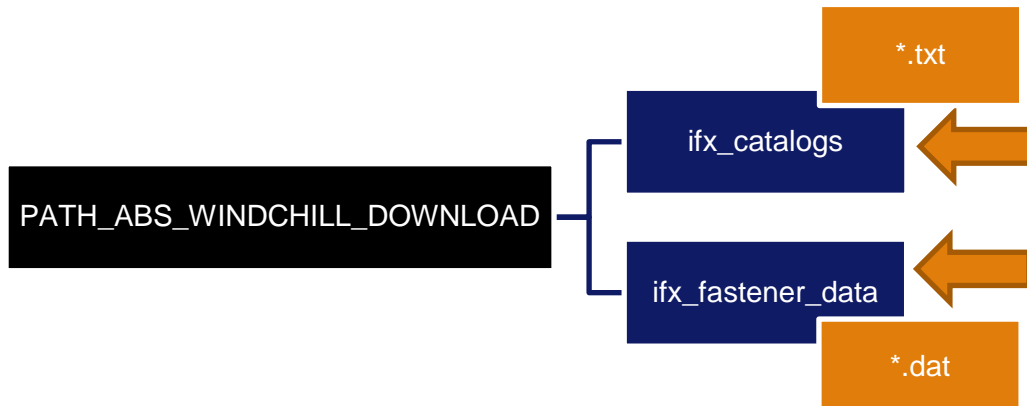


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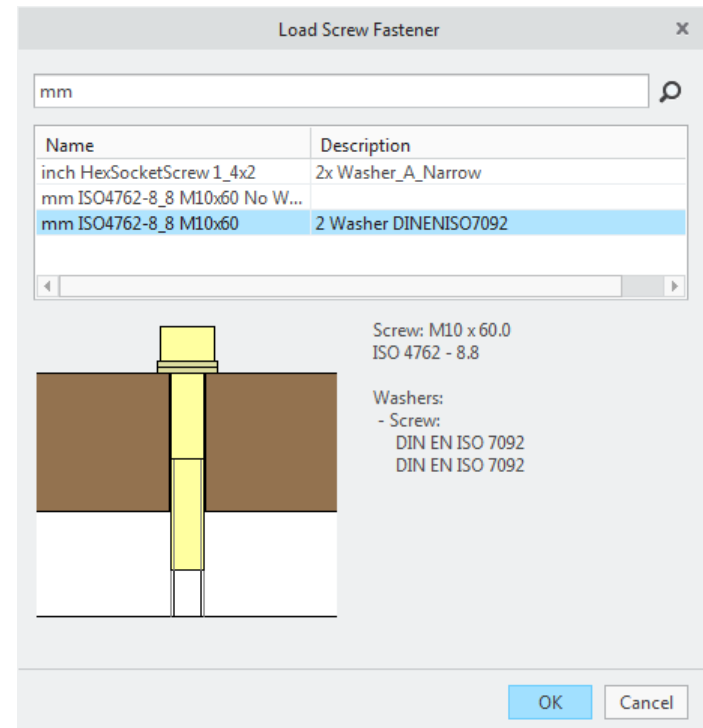
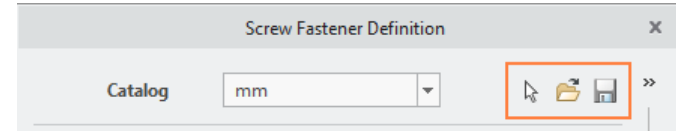


New Feature

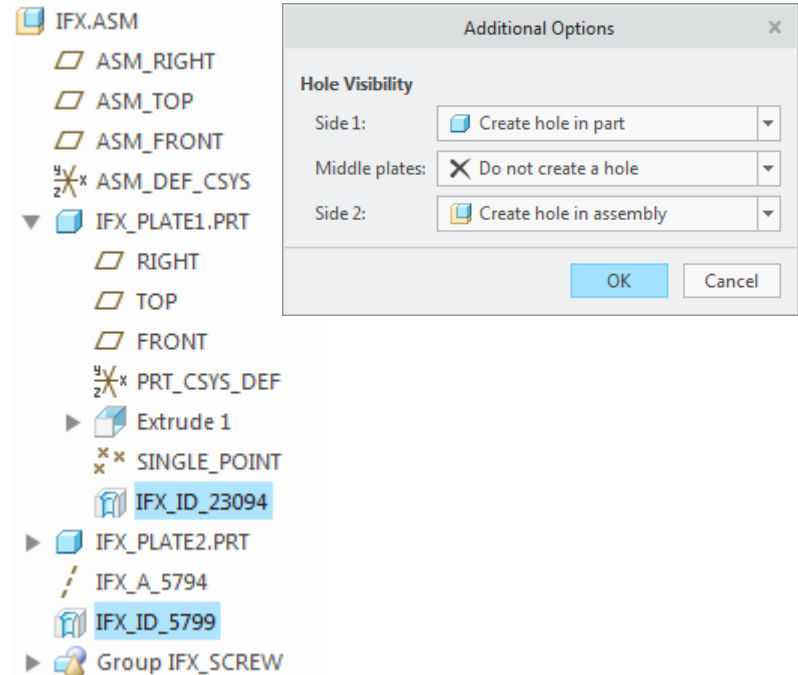
- Manage IFX Data in Windchill
 - Catalog *.txt files
 - Fastener data files *.dat
- New Windchill options
 - *LIBRARY_LOCATION (LOCAL/WINDHILL)*
 - *PATH_ABS_WINDCHILL_DOWNLOAD*
 - *WTPUB_IFX_CATALOG_FOLDER*
 - *WTPUB_IFX_FASTENER_DATA_FOLDER*



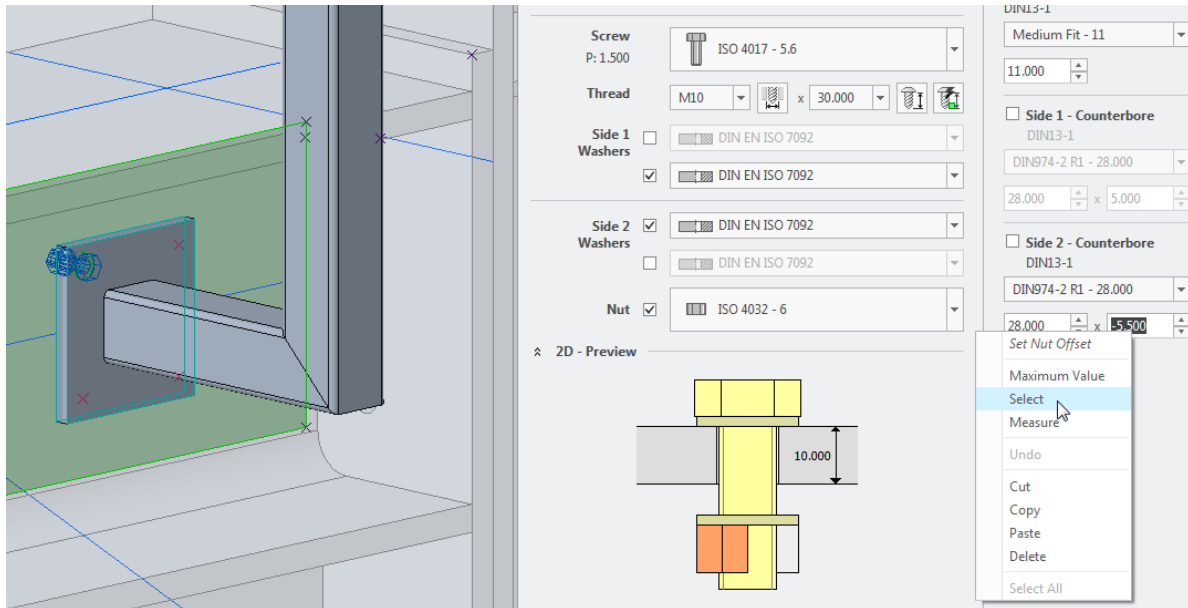
- Reuse fastener
 - Select existing fastener
 - Open fastener
 - Save fastener
- New option
PATH_ABS_SAVESCREWS



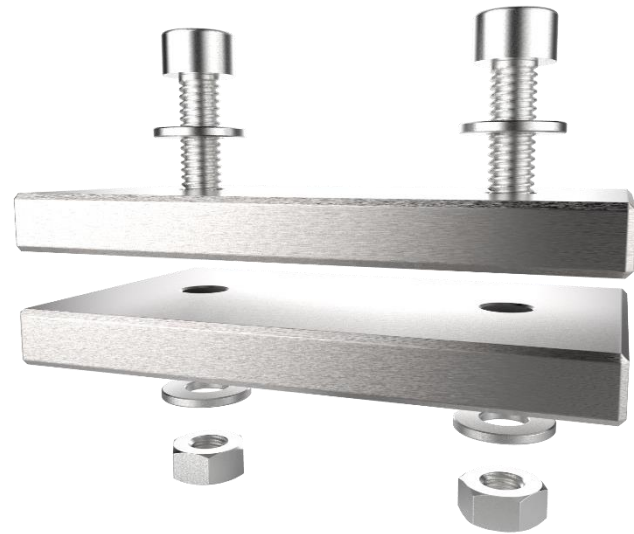
- Control hole position
 - Part
 - Assembly
- New option
HOLE_VISIBILITY
 - *SELECT* – Select hole visibility.
 - *PRT* – Create hole in part.
 - *ASM* – Create hole in assembly.
 - *No* – Do not create a hole.



- Control screw and nut offset
- New option
ENABLE_POPUP_MENU_FOR_SCREW_NUT_OFFSET

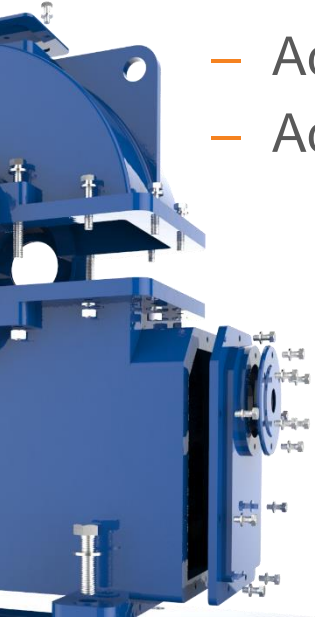


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- **How to add legacy data**
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How to add Legacy Data

- Types of legacy data
 - Single fastener parts
 - Family table parts
- How to integrate to IFX
 - Add instances of single parts
 - Add instances of family table parts
 - Add dimension/parameter mapping for family table parts

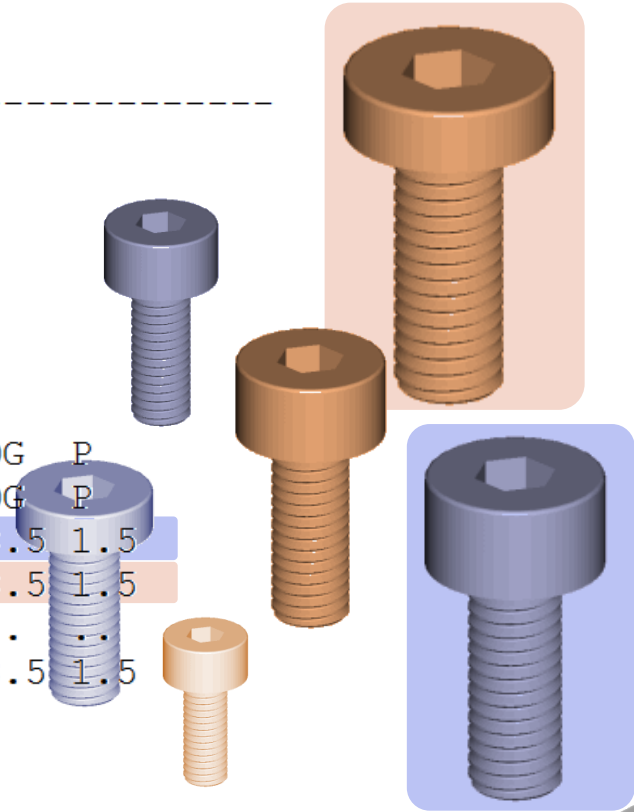


Add instances of single parts

```
!-----
!   Zylinderschraube mit Innensechskant
!   Hexagon socket head cap screw
!-----
```

```
SCREWTYPE    1
UNIT         MM
SURFACE      28      124      11      <SURFACE-ID>
AXIS         71      56      251     <AXIS-ID>
INFO         ISO 4762
```

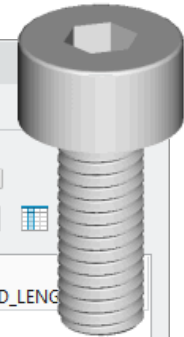
SYMBOL	STRING	DN	LG	B	S	DK	K	DG	P
INSTANCE	STRING	DN	LG	B	S	DK	K	DG	P
PART_1	M10	10	16	16	8	16	10	8.5	1.5
PART_2	M10	10	18	18	8	16	10	8.5	1.5
xxx	..	..	..	..	..	..	..	..	..
PART_X	M10	10	xx	xx	8	16	10	8.5	1.5



Add instances of family table parts

SCREWTYPE 1
 UNIT MM
 SURFACE 28
 AXIS 71
 INFO ISO 4762

SYMBOL	STRING	DN	LG	B	S	DK	K	DG	P
INSTANCE	STRING	DN	LG	B	S	DK	K	DG	P
MSCS09000	M10	10	16	13	8	16	10	8.5	1.5
MSCS09001	M10	10	20	17	8	16	10	8.5	1.5
XXX	..	..	..	..	..	..	..	..	..
MSCS09014	M10	10	100	32	8	16	10	8.5	1.5



Family Table :MSCS

File Edit Insert Tools

Look In: MSCS

Type	Instance Name	NOM_SIZE...	d1 THREAD_DIA	d10 BODY_DIA	d13 HEAD_DIA	d11 HEAD_...	d34 HEAD_...	d14 HEAD_...
	MSCS	M1.6x0.35	1.60	1.60	3.00	1.60	0.16	0.08
	MSCS08	M8X1.25	8.00	8.00	13.00	8.00	0.80	0.20
	MSCS09	M10X1.5	10.00	10.00	16.00	10.00	1.00	0.20
	MSCS10	M12X1.75	12.00	12.00	18.00	12.00	1.20	0.25
	MSCS11	M14X2	14.00	14.00	21.00	14.00	1.40	0.25

Family Table :MSCS09

File Edit Insert Tools

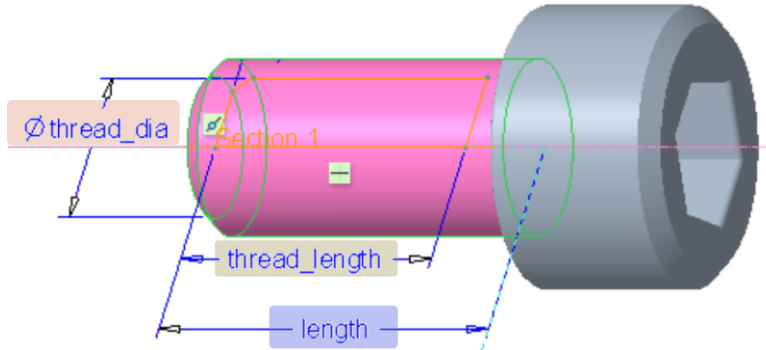
Look In: MSCS09

Type	Instance Name	d5 LENGTH	d2 THREAD_LENG
	MSCS09	20.00	15.20
	MSCS09000	16.00	13.00
	MSCS09001	20.00	17.00
	MSCS09002	25.00	22.00
	MSCS09003	30.00	27.00
	MSCS09004	35.00	32.00
	MSCS09005	40.00	37.00
	MSCS09006	45.00	42.00
	MSCS09007	50.00	32.00
	MSCS09008	55.00	32.00
	MSCS09009	60.00	32.00
	MSCS09010	65.00	32.00
	MSCS09011	70.00	32.00
	MSCS09012	80.00	32.00
	MSCS09013	90.00	32.00
	MSCS09014	100.00	32.00

Open

OK Cancel

Add dimension/parameter mapping for family table parts



SCREWTYPE 1
 UNIT MM
 SURFACE 28
 AXIS 71
 INFO ISO 4762

FAMPRT MSCS

SYMBOL STRING DN LG B DK
 INSTANCE STRING THREAD_DIA LENGTH THREAD_LENGTH HEAD_DIA
 #FAMTAB M<DN> d1 d5 d2 d13

Family Table :MSCS

Look In: MSCS

Type	Instance Name	NOM_SIZE...	d1 THREAD_DIA	d10 BODY_DIA	d13 HEAD_DIA	d11 HEAD_...	d34 HEAD_...	d14 HEAD_...
	MSCS	M1.6x0.35	1.60	1.60	3.00	1.60	0.16	0.08
	MSCS08	M8x1.25	8.00	8.00	13.00	8.00	0.80	0.20
	MSCS09	M10x1.5	10.00	10.00	16.00	10.00	1.00	0.20
	MSCS10	M12x1.75	12.00	12.00	18.00	12.00	1.20	0.25
	MSCS11	M14x2	14.00	14.00	21.00	14.00	1.40	0.25

Family Table :MSCS09

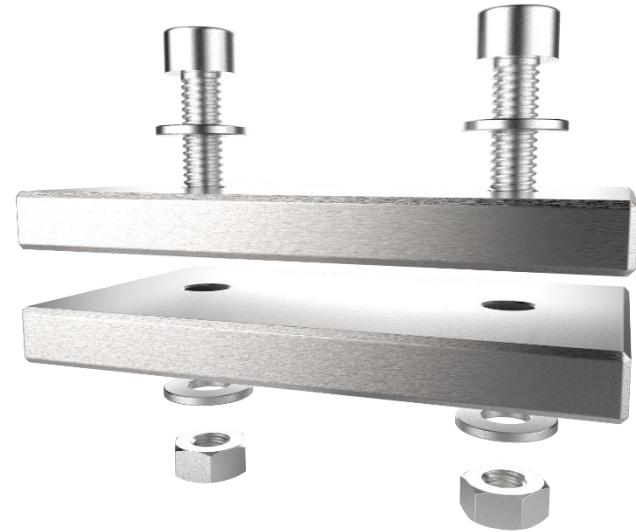
Look In: MSCS09

Type	Instance Name	d5 LENGTH	d2 THREAD_LENGTH
	MSCS09	20.00	15.20
	MSCS09000	16.00	13.00
	MSCS09001	20.00	17.00
	MSCS09002	25.00	22.00
	MSCS09003	30.00	27.00
	MSCS09004	35.00	32.00
	MSCS09005	40.00	37.00
	MSCS09006	45.00	42.00
	MSCS09007	50.00	32.00
	MSCS09008	55.00	32.00
	MSCS09009	60.00	32.00
	MSCS09010	65.00	32.00
	MSCS09011	70.00	32.00
	MSCS09012	80.00	32.00
	MSCS09013	90.00	32.00
	MSCS09014	100.00	32.00

Open

OK Cancel

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- How to add legacy data
- **PTC Community**



- Start Discussions
- Did you know?
- News
- Links
- And many more



- Thank you for your attention.
- Contact:
 - Oliver Gräbner
 - oli@buw-soft.de
 - +49 9131 53387 04

