

SMARTElectrode 13.0.2.0

What's New





What

Allow surface models as workpieces

https://redmine.buw-soft.de/issues/11584

Why

 Workpieces are sometimes only available as surface models and can't be repaired via Import Data Doctor (IDD)

How

- Use method "original models" to create assembly from surface models
- SMARTElectrode offers support for:
 - Workpiece: outline calculation of workpieces
 - Operation: offset calculation in operation definition
 - Design: cutout creates a solid and a solidify feature if referenced workpiece is a surface model. Solidify may fail if quilt includes gaps.
 - Analysis: touching surface analysis for effective contact area
- NOTE computation of interference is unavailable for surface models. A warning will be displayed in Check Ul Interference

Workpiece TUTORIAL3_OFFEN is surface model. No calculation possible!

Workpiece TUTORIAL3_OFFEN is surface model. No calculation possible!



What

- Introduced layer definition in my_drawing_format.cfg to control display status
- https://redmine.buw-soft.de/issues/10575

Why

• It's a tedious task to set correct layer display on electrode drawings

- Add section enclosed with .BEGIN_LAYERS and .END_LAYERS to my_drawing_format.cfg
- Define drawing template name, view, layer and display status in a tab separated table
- Drawing name from configuration\templates: asm_bom, asm_wp, asm_operation, asm_edm, edm_default
- View to assign layer setting to. Use VIEW name to set display of layer in a specific view. Use TOP_MODEL to set display of layer on drawing sheet.
- Layer name whose display status is to be set
- Display status: Set YES to show layer; Set NO to hide layer



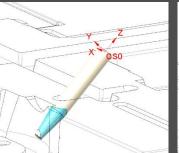
What

- Electrode base can now also be added on a user-defined coordinate system
- https://redmine.buw-soft.de/issues/8704

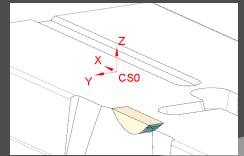
Why

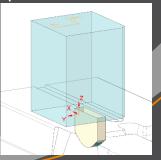
- To lock the position of the base on an axis
- To prepare a geometry pattern of the contour

- Define coordinate system in electrode
- Select coordinate system and open Base UI
 - Base will be added to coordinate system
 - Position of coordinate system is taken into account to calculate required blank size
- Base is locked to coordinate system. Delete base to use different option.





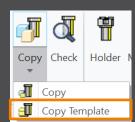






What

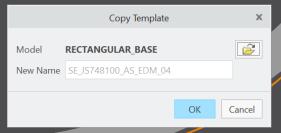
- Copy electrodes from existing electrodes or prepared templates
- https://redmine.buw-soft.de/issues/11700



Why

- Allow reuse of...
 - incomplete electrode models to be completed inside assembly (for gate electrodes)
 - complete electrode models created without SMARTElectrode (for electrodes from stock)
 - complete electrode created with SMARTElectrode (for electrodes from different assembly)

- Csys defined in option SE_EDM_ORGIN_NAME is mandatory
- "configuration\electrode\templates" is used as default path to select templates
- Associated data (drawing, manufacturing) will be copied to new name also
- Controls in Base UI will be disabled if template is detected





What

Electrode design mode:
 Maintain definition of surface collections when creating copy-geoms

https://redmine.buw-soft.de/issues/11765

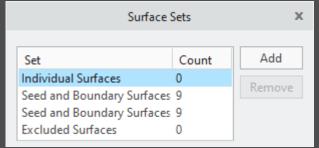


Why

So far, a new copy-geom was created for each surface set on >Get Data >Cutout and >Get Data >Copy Geometry

- Surface sets in selection buffer are now automatically sorted by reference model
- All surface sets from same reference model will be added to same copygeom feature







What

 Base UI - keep predefined holder offset if different holder is selected on details page

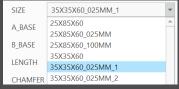
Why

https://redmine.buw-soft.de/issues/10943

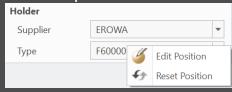
 Adapts behavior of Base UI to Holder UI. Offset / rotation will be retained if a different holder is selected

How

Selection of new blank type or size updates holder and position



Current position will be retained if a new model is selected on details page



A new popup menu allows edit and reset of holder position

Interface to Ingersoll MultiProg



What

- Suppress output of generator types to ING file
- https://redmine.buw-soft.de/issues/10943

Why

- Set undersize values are mapped on generator types in output
- Some customers prefer output without generator types

	Undersize		Quantity	
▼	0.5	-	2	*
▼▼	0.4	•	1	*
***	0.30	•	1	*
****	0.20	•	1	*

- Add option WRITE_GENTYPEL NO to export.cfg to suppress output WRITE_GENTYPEL NO
- File is located in configuration\processor\INGERSOLL\pp\export.cfg
- Generator types based on undersize values
 - RO: roughing
 - PF: prefinish
 - FI: finish
 - FF: fine finish



What

Calculate <SafetyDistance> based on electrode contour height and position of **MEASZPOINT**

https://redmine.buw-soft.de/issues/11881

<SafetyDistance> uses a fixed value from export.cfg currently

A calculation based on contour height is necessary

How

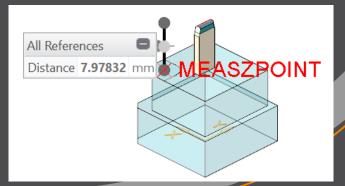
Why

Two options in export.cfg control behavior for <SafetyDistance>

- SafetyDistance ... → fixed to be considered at the CMM.
- SafetyDistanceOffset ... > offset for safety distance added to measured distance from blank length to MeasZPoint

Note

Only use SafetyDistance or SafetyDistanceOffset!





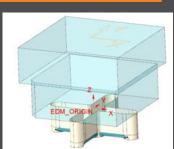
What

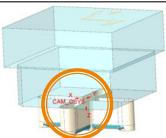
- Allow alternative csys for output of measure information
- https://redmine.buw-soft.de/issues/11585

Why

All measuring information like

```
<MeasSizeX>38.0000</measSizeX>
<MeasSizeY>38.0000</measSizeY>
<MeasSizeZ>0.0000</measSizeZ>
<MeasZPointX>-16.5000</measZPointX>
<MeasZPointY>-16.5000</measZPointY>
<MeasZPointZ>0.0000</measZPointZ>
<QMPoint>
...
</QMPoint>
```





- ... need to be output for csys with correct orientation
- Use setting "SE_EDM_BACKUP_CSYS" in export.cfg to set csys names
- Several alternative csys can separated by ;
- Option names will automatically be replaced by value

```
SE_EDM_BACKUP_CSYS EL_CSYS; CSYS_DEFAULT; ANY_CSYS; SE_EDM_BACKUP_CSYS CAM_CSYS_NAME; EDM_ORIGIN_NAME;
```



What

Add <MeasureProg> to XML output

https://redmine.buw-soft.de/issues/11659

Why

 MeasureProg is the name of the learning/measuring program for the automatic presetting at the CMM

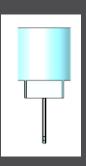
How

- A measure frame needs to be available to output <MeasureProg>
- Default values are:

```
<!-- default for rectangular frame: ESVierkant -->
<MeasureProg>ESVierkant </MeasureProg>
<!-- default for round frame: ESMitteKreis -->
<MeasureProg>ESMitteKreis</MeasureProg</pre>
```

- Custom names for <MeasureProg> can be defined in parameters
 - Parameter configuration
 MEASUREPROG PART STRING N N 10 N Y &measureprog
 - Selection list in sel_list.txt #MEASUREPROG

...







What

Suppress <MeasProgType> and <MeasSize...> if no frame available

• https://redmine.buw-soft.de/issues/11537

https://redmine.buw-soft.de/issues/11587

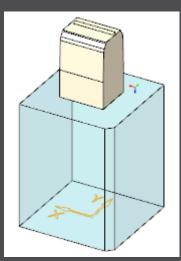
Why

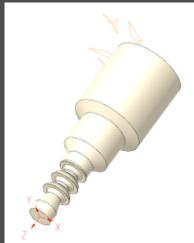
• <MeasProgType> and <MeasSize...> are only valid if a measuring frame is

available in blankOutput is suppressed if frame is not found

```
<MeasProgType></MeasProgType> > empty
<MeasSizeX></MeasSizeX> > skipped
<MeasSizeY></MeasSizeY> > skipped
<MeasSizeZ></MeasSizeZ> > skipped
```

Example electrodes without frames:







What

- Allow custom name for MeasZPoint in export settings
- https://redmine.buw-soft.de/issues/11586

Why

- MeasZPoint is the datum point where Z-height should be measured
- Datum point may be available in customer templates with different name



How

- Add option MeasZPoint <name> to export.cfg
- An existing datum point named "MEASZPOINT" will be renamed on export

! name of datum point feature to use for MeasZPoint MeasZPoint MEASZREF

NOTE Datum point needs to be reachable!



What

Name format options to shorten names in XML output

• https://redmine.buw-soft.de/issues/11855

Why

- Depending on EDM machine setup length of 32 characters may not be available for electrode names in XML
- Creation of shorter names is required
 - Naming options SE_EDM_NAME_FORMAT and SE_2ND_EDM_NAME_FORMAT introduced. Examples:
 - SE_EDM_NAME_FORMAT EDM_<ID>
 - SE_2ND_EDM_NAME_FORMAT <partname><any known parameter>

Fixed Error



What

- Assignment of combined states to drawing views fails sometimes
- https://redmine.buw-soft.de/issues/10772

Resolution

- Replaced combined states with a list of layer definitions which can be controlled independently from 3d model
- Details <u>here</u>



Fixed Error



What

- Command "Attach" fails for quilts with multiple contours
- https://redmine.buw-soft.de/issues/11708

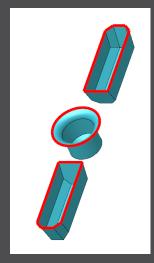


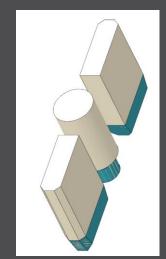
Why

Starting edges of the boundary loops are not found correctly

Resolution

Issue is fixed





Fixed Error



What

- Project UI skip models without solids during project creation
- https://redmine.buw-soft.de/issues/11548

Why

 Regeneration error occurs if copy-geom, inheritance or merge feature is created for a model without solid geometry

Resolution

- Models without solid will be skipped during creation of reference part
- An error message will be displayed





SMARTElectrode 13.0.1.0

What's New





What

- All configuration files are now considered as encoded in UTF-8
- https://redmine.buw-soft.de/issues/10943

Why

Necessary for updated interfaces to EDM

- Please use a tool like Notepad++ to convert if necessary
- Files using ASCII standard characters don't need any special handling



What

- Introduced 'Getting started' document
- https://redmine.buw-soft.de/issues/10749

Why

This document explains briefly how to start working with SMARTElectrode

- Open 'Getting started' from
 - Installation directory
 - Download server: https://dl.buw-soft.de/smartelectrode/guides/getting-started.pdf
- Some of the topics covered
 - Configure license / Register and start SE
 - Setting up a configuration / How to use setup wizard
 - Creo options / SMARTElectrode Options
 - Workflow in SMARTElectrode
 - Parameters
 - Base UI
 - Customizing electrode templates
 - Drawing Creation



What

- Sort electrodes by parameter value before export
- https://redmine.buw-soft.de/issues/10575

Why

Some customers need to output electrodes in a specific sort order

How

- Two new keywords can be used in any export configuration (export.cfg)
 - SE_ORDER_BY
 Define parameter by parameter name (1st column) or parameter default (last column; include &)
 - SE_SORT_ORDER
 Defines sort order: ASC, ASCENDING, DESC, DESCENDING
- Sorting works for strings, doubles and integers
- Only sort by part parameters!

```
SE_ORDER_BY &BURNAREA_XY
SE_SORT_ORDER DESCENDING
SE_ORDER_BY BRENNFLAECHE
```

SE SORT ORDER DESCENDING

```
BURNAREA - ID - NAME

361.980 - 11 - JS748100 AS EDM_11

157.062 - 12 - JS748100 AS EDM_12

156.671 - 12 - JS748100 AS EDM_12

28.102 - 10 - JS748100 AS EDM_10

28.102 - 10 - JS748100 AS EDM_10

25.607 - 3 - JS748100 AS EDM_03
```



What

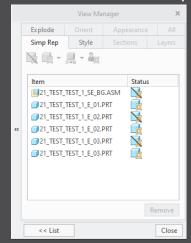
- Consider default action (include/exclude) of simplified representation when valid components for export are collected
- https://redmine.buw-soft.de/issues/11020

Why

Allow usage of master representation for example

How

All valid items in simprep are collected automatically by SMARTElectrode





What

- Updated advanced interface for Zimmer&Kreim Alphamoduli
- https://redmine.buw-soft.de/issues/7864

- Processor files include upated list of orbits
- Additional supported XML tags in export
 - MeasDim
 - MeasProgType
 - MeasSizeX
 - MeasSizeY
 - MeasSizeZ
 - MeasZPointX
 - MeasZPointY
 - MeasZPointZ
 - EdgeDistance
 - SafetyDistance
- Please contact us for detailed information and setup!





ZK_English.zip



What

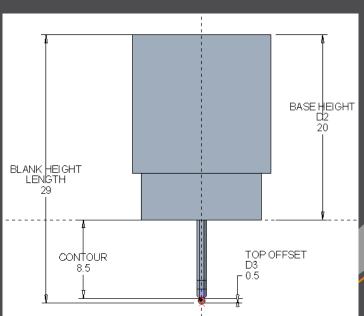
- Round contour height to even value in Base UI
- https://redmine.buw-soft.de/issues/5550

Why

How

For users more interested in an even contour height than in a rounded position

- Mandatory settings:
 - INCREMENT POS = 0
 - INCREMENT SIZE > 0
- Height of contour will be rounded to a value, where
 - D1 corresponds at least to value in data file
 - D3 corresponds exactly to value in data file
 - Contour height is rounded to INCREMENT SIZE
- Should be combined with a free value
 - blank length (LENGTH = -1) or
 - base height (D2 = -1)





What

- Show warning in Burnsheet UI if blank length is too small
- https://redmine.buw-soft.de/issues/8494

Why

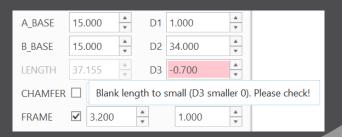
Base is NOT changed by SMARTElectrode after creation

- Position of base is retained
- Size of base is retained

User is in control whether the base must be revised

- Open Base UI to update values interactively
- Suppress base before Base UI is opened
 - → this starts automatic check and adjustment again







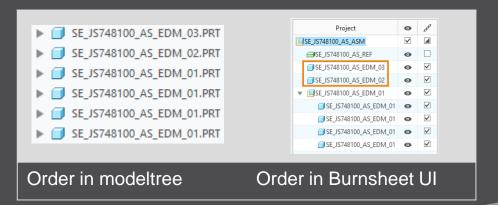
What

- Burnsheet UI / Output UI: electrodes are ordered by feature number per default
- https://redmine.buw-soft.de/issues/10409

Why

A distinctive electrode sequence is necessary for the output occasionally

- Change order of electrodes in modeltree using drag and drop
- The first appearance of an electrode determines the order for the output





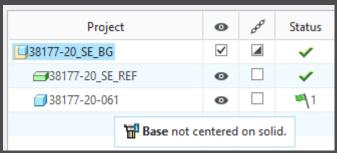
What

- Show notifications for Burnsheet UI node on mouse-over
- https://redmine.buw-soft.de/issues/10421

Why

As a quick information for the user

- Move mouse cursor over node if notifications available
 - Click on notification to open detailed description in separate window and filter display





What

- Use blank dimensions A_BASE and B_BASE for coverage check
- https://redmine.buw-soft.de/issues/10622

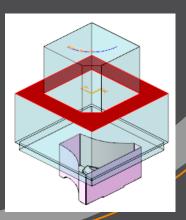
Why

- CONTACT_AREA_MAX_COVERAGE defines valid percentage of coverage
- SMARTElectrode used area of 'BASE_TOP' leading to too small areas if clamp is part of electrode

How

- SMARTElectrode evaluates blank area by base dimensions if available
- 'BASE_TOP' surface may be used for imported electrodes
- More information about check for calculated burnarea projection:

https://redmine.buw-soft.de/issues/10622





What

- Allow cancelation of exact burnarea analysis on ESC
- https://redmine.buw-soft.de/issues/10504

Fast Calculation

Exact Calculation

Query Undersize

V.4

Query Undersize

0

A

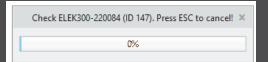
V

Why

Some surface types lead to lengthy analyzes

How

Press ESC during analysis in Base or Check UI to cancel calculation



	nterference Assign Colors Calculate Undersize	✓ Tou		
?	Electrode	Touching Surfac∈	Projection Area	Interference
i	SE_JS748100_AS_EDM_01		3.18557	✓
i	SE_JS748100_AS_EDM_01		3.18557	✓
i	SE_JS748100_AS_EDM_01		3.18557	✓
i	SE_JS748100_AS_EDM_01		3.18557	✓
i	SE_JS748100_AS_EDM_02	Cancelled	0	✓
	All	36	12.7423	0



What

 Allow adjustment of assembly accuracy if inconsistent values are found

https://redmine.buw-soft.de/issues/10414

Why

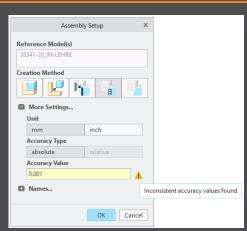
 Same accuracy and type should be used in complete assembly

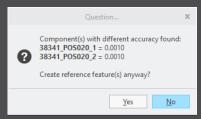
Inconsistent accuracies may lead to errors

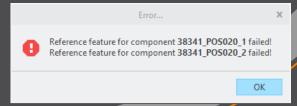
How

- Warning will be displayed in assembly UI
- Input will be preset to smallest accuracy found
- Additional warning will be shown before creation of reference model
- Errors will be displayed afterwards
- NOTE

SMARTElectrode does not change accuracy of the original models! This is because SE can't evaluate if change of accuracy is allowed.









What

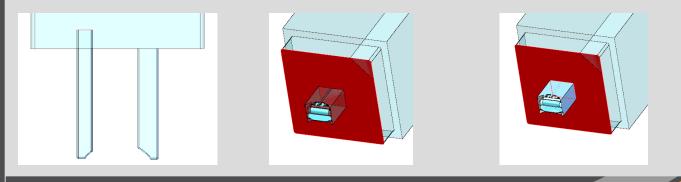
- Use Flexible Modeling 'Substitute' in 'ATTACH' instead of replace
- https://redmine.buw-soft.de/issues/8703

Why

 Normal offset-replace (modeling tab) does sometimes NOT unite electrode contour and electrode base, no matter whether FREE_FACE or solid surface is selected as reference.

How

 SMARTElectrode automatically uses feature substitute in group 'ATTACH' instead of offset/replace if license for Flexible Modeling Extension is available



Result for expand

Result for replace

Result for FMX substitute



What

 Handle existing base for commands 'Pattern' and 'Mirror' in design mode

https://redmine.buw-soft.de/issues/8495



Why

Mirror of complete electrode including base may remove chamfers



How

Command 'Pattern' automatically collects all solid surfaces or surfaces below FREE FACE

 Command 'Mirror' automatically activates insert mode and adds mirror feature in front of base

☐ Cut Out id 151
☐ DTM1
☐ Solidify 1

Group ATTACH_9058



What

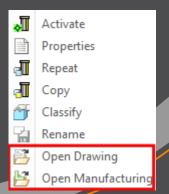
 New commands 'Open Drawing' and 'Open Manufacturing' added to context menu in modeltree and object window

https://redmine.buw-soft.de/issues/10411

Why

Easier navigation in electrode assembly

- Commands are only accessible when assembly is active
- Commands are accessible for selected electrode in modeltree and graphics window
- Drawing and manufacturing will be opened in a new window
- If electrode is part of assembly drawing then correct sheet will be shown





What

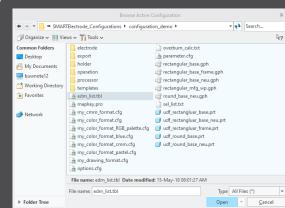
- Introduced new command 'Open Configuration'
- https://redmine.buw-soft.de/issues/10739

Options
Edit Parameters
Open Configuration
About SMARTElectrode

Why

Easier access to active configuration

- A file browser opens in active configuration folder
- Actions for selected files / file types
 - parameter.cfg
 Dialog for modification will be opened
 - options.cfg
 Dialog for modification will be opened
 - *.prt, *.asm, *.drwCreo file will be opened in a new window
 - any other file
 File will be opened in info window





What

- Disable automatic update of csys on workpiece sides
- https://redmine.buw-soft.de/issues/10511

Why

 User should be in control when dependent operations and electrodes are updated

```
▼ 

Group SE_AUTO_CSYS_51

J SE_CSYS_29

J SE_CSYS_31

J SE_CSYS_33

J SE_CSYS_35

J SE_CSYS_37

J SE_CSYS_39

X Datum Point id 41
```

Selected model SE_JS748100_AS_ASM Notifications

Csvs on workpiece outline outdated.

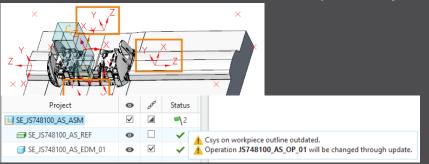
Operation JS748100 AS OP 01 will be changed through update.

Close

How

- The 8 datum points represent the corners of the workpiece outline and can be used for drawing dimensions. These will be updated automatically!
- A notification will be shown in Burnsheet UI for outdated csys

Double-click in notification details to update csys, operation and electrodes





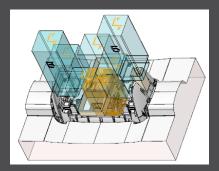
What

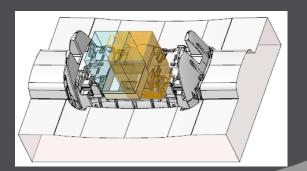
- Repeat UI: only show selected electrodes and preview components when defining new position.
- https://redmine.buw-soft.de/issues/10399

Why

• Improve overview for users if there are many electrodes assembled

- Pre-select electrodes before Assemble Again UI is opened
- Or select in UI (don't forget to confirm selection)
- All electrodes are displayed again on OK or when user starts selection again







What

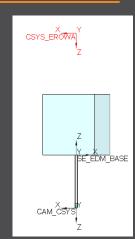
- Use default csys from base to calculate angles
- https://redmine.buw-soft.de/issues/10822

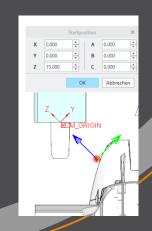
Why

How

 In some cases, it may be necessary to rotate csys with EDM_ORIGIN_NAME

- Angles in burnsheet would appear with wrong values
- Use csys showing orientation of blank for calculation of angles
- Always use 'EDM_ORIGIN' for electrodes designed in SMARTElectrode 7.0
- Use csys 'SE_EDM_BASE' or csys defined in option 'EDM_ORIGIN_NAME' for electrodes designed in SMARTElectrode 8.0 – 13.0
- This allows adjustment of csys 'EDM_ORIGIN_NAME' for easier definition of start position







What

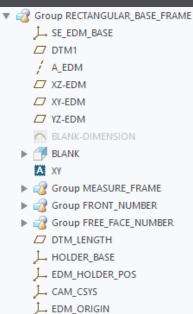
- Allow subgroups in definition of user-defined features for electrode base.
- https://redmine.buw-soft.de/issues/10389

Why

How

Sometimes features are nested in groups (MEASURE_FRAME, FRONT NUMBER, FREE FACE NUMBER) in Base UDF.

- These features are currently not considered as part of the base leading to wrong size calculation SMARTElectrode now checks all features in base group
- when checking if a feature/surface is part of base or not.





What

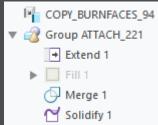
 Check if feature merge in group 'Attach' creates a closed quilt if performed on surface feature or quilt

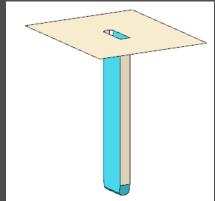
Why

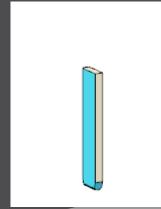
- Sometimes merge sets wrong side for 2nd quilt to keep
- Leads to an opened quilt which can't be solidified

How

- SMARTElectrode checks if merge leads to a closed quilt
- SMARTElectrode changes side to keep in merge feature if necessary









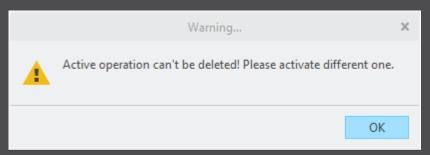
What

- Prevent deletion of active operation
- https://redmine.buw-soft.de/issues/10733

Why

- SMARTElectrode ribbon is disabled after deletion of active operation
- Most of the commands are still accessible but won't work anymore

- SMARTElectrode checks features whether they belong to active operation before deletion
- Deletion will be canceled with message window if feature of active operation selected





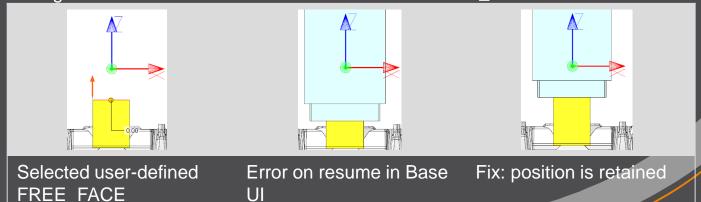
What

- Electrode base with user-defined FREE_FACE is suppressed to make design changes
- Base is reset to default position when resumed in Base UI

Why

- Information about user-defined FREE_FACE gets lost
- SMARTElectrode carries out default process to update base

- SMARTElectrode checks reference of datum FREE_FACE for changes
- Recognition works for all models with user-defined FREE_FACE





What

- Workpiece dimensions on drawing sometimes incomplete
- https://redmine.buw-soft.de/issues/10990

Why

- Orientations are sometimes not correctly set after drawing creation from template
- For these drawing views sorting of outline points might fail

How

- Supported symbolic names for drawing orientations
 - 2d view names: SE_TOP (SE_DEFAULT), SE_BOTTOM, SE_FRONT, SE_BACK, SE_LEFT,
 SE_RIGHT
 - 3d view names: SE_DEFAULT_ISO, SE_ASM_DEFAULT, SE_ASM_ISO
- Please refer to 'Getting started' document in installation for more information



What

- Fixed wrong creation of ordinate dimensions on drawings
- https://redmine.buw-soft.de/issues/10685

Why

Multiple redundant baselines without merging dimensions have been created

How

This issue is fixed



What

- Reset surface appearance to default before touching faces are colored
- https://redmine.buw-soft.de/issues/10405

Why

Reset of surface colors is not applicable in all cases

How

- COLOR_EDM_TOUCHING_FACES has to be available in my_color_format.cfg
- A warning will be displayed if 'COLOR_EDM_TOUCHING_FACES' is not is not applicable
- A distinction is made between the following cases:
 - Check UI: coloring can be done when all electrode positions are selected for touching surface analysis
 - Check UI: a warning will be displayed and coloring will be canceled if NOT all electrode positions are selected for touching surface analysis
 - Base UI: coloring can be done in detailed calculation of contact area if active electrode is used only
 once in assembly
 - Base UI: a warning will be displayed and coloring will be canceled if active electrode is used multiple times in assembly



What

- Fixed wrong result for selection by color
- https://redmine.buw-soft.de/issues/10857

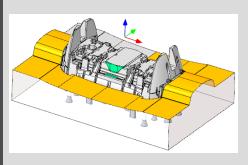


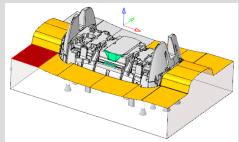
Why

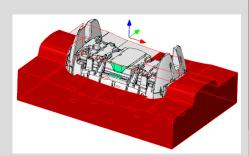
Sometimes too many surfaces have been selected

Resolution

This issue is fixed







Original

Selected reference

Wrong result



What

- Hide invalid commands in modeltree
- https://redmine.buw-soft.de/issues/10985

Why

 Some commands are invalid in modeltree context menu if selected feature is not inside active component

How

This issue is fixed



What

- Commands can be selected from context menu for suppressed electrodes
- Applies to Creo Parametric 4.0 and 5.0
- https://redmine.buw-soft.de/issues/10518

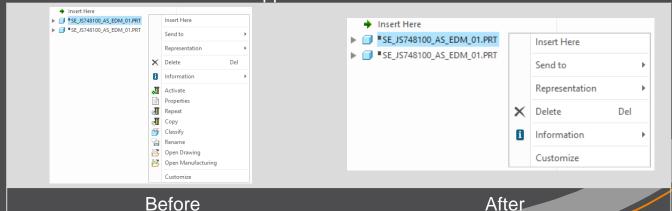
Why

Component selections are not automatically skipped in above Creo versions

Resolution

Issue is fixed

Commands are removed for suppressed features





What

- Crash in Base UI if no workpiece model found
- https://redmine.buw-soft.de/issues/10488

Why

- It's not possible to read workpiece information if no component in assembly is marked as workpiece
- Parameter SE_CORE_MODEL=1 not available

- Issue is fixed
- Always check if an active workpiece can be found and cancel functionality if necessary



What

- Command 'New with Base' does not work anymore
- https://redmine.buw-soft.de/issues/10407

Why

- SMARTElectrode checks selected template for completeness before its used
- This includes check for parameters
 - SE EDM SUPPLIER
 - SE EDM TYPE
- Command is canceled if any expected parameter is missing

- Issued is fixed
- SMARTElectrode extracts supplier and type from selected data file: configuration/electrode/<supplier>/<type>.dat





What

Help does not open if path contains spaces or special characters.

Resolution

Issue is fixed.



SMARTElectrode 13.0.0.0

What's New



Multibody support



What

 Support for new multibody features introduced in Creo Parametric 7.0 [https://redmine.buw-soft.de/issues/9973]

Who needs it

All customers working with Creo Parametric 7.0

Details/Usage

SMARTElectrode supports multibody features in following modes/models/features:

- Assembly creation for all available methods (original model, merge, copygeom, inheritance)
- Electrode design
 - Features creating a solid are automatically created in default body or body selected implicitly by references
 - Features without geometrical references like base or support are created in active or default body

Impact/
Compatibility

Additional features may be added with new releases from PTC



What

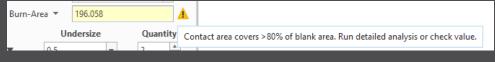
 Added threshold to show a warning if contact area covers more than defined percentage of blank area [https://redmine.buw-soft.de/issues/10357]

Who needs it

Users who output effective contact area for EDM programming

Details/Usage

- SE performs a fast contact area calculation when Base UI is opened and contact area is 0
- Slower more exact calculation can by started by user in UI
- Check UI always performs the exact calculation
- Option "CONTACT AREA MAX COVERAGE" defines valid percentage
 CONTACT_AREA_MAX_COVERAGE
 80
 Maximum valid coverage of the blank area with contact areas in percent.
- Warnings are shown in Base UI and Burnsheet notifications







Description

 Edited base values are reset on next change [https://redmine.buw-soft.de/issues/10218]

A_BASE	17.500	A	D1 5.128
B_BASE	15.000	A	D2 40.000
LENGTH	48.000	A	D3 0.022

A_BASE	15.000	A .	D1 5.128	*
B_BASE	15.000	# *	D2 35.000	A .
LENGTH	43.000	*	D3 0.022	*

Cause

Edited values are not correctly saved to template data

Solution

Problem is fixed



Description

Some electrodes are not processed during output [https://redmine.buw-soft.de/issues/10191]

Cause

- SE validates every electrode during export and skips suppressed, disabled or incomplete components.
- Check for completeness includes a check of electrode base group
- Check for completeness fails on imported or legacy electrodes as base is not created by UDF.

Solution

- SE now looks for existence of mandatory EDM coordinate system
- Legacy electrode use "EDM_ORIGIN" or "EDM_ORIGIN_TOP" depending on option value "USE POS CSYS TOP"
- Electrodes beginning with version 8.0 use csys name defined in option "EDM_ORIGIN_NAME"