



SAP Engineering Control Center Webinar

Gerhard Himmelsbach
September, 17th 2021

PUBLIC

Abstract

In this session you will learn about the latest highlights we developed and shipped recently and about planned innovations for our Authoring Tool integration platform SAP Engineering Control Center. We will share some demos to explain the new capabilities. You will also get to know about the release planning of the product and where to find additional information on roadmaps and best practices for SAP Engineering Control Center.

Agenda

Recent Innovations

Roadmap

Where to find more

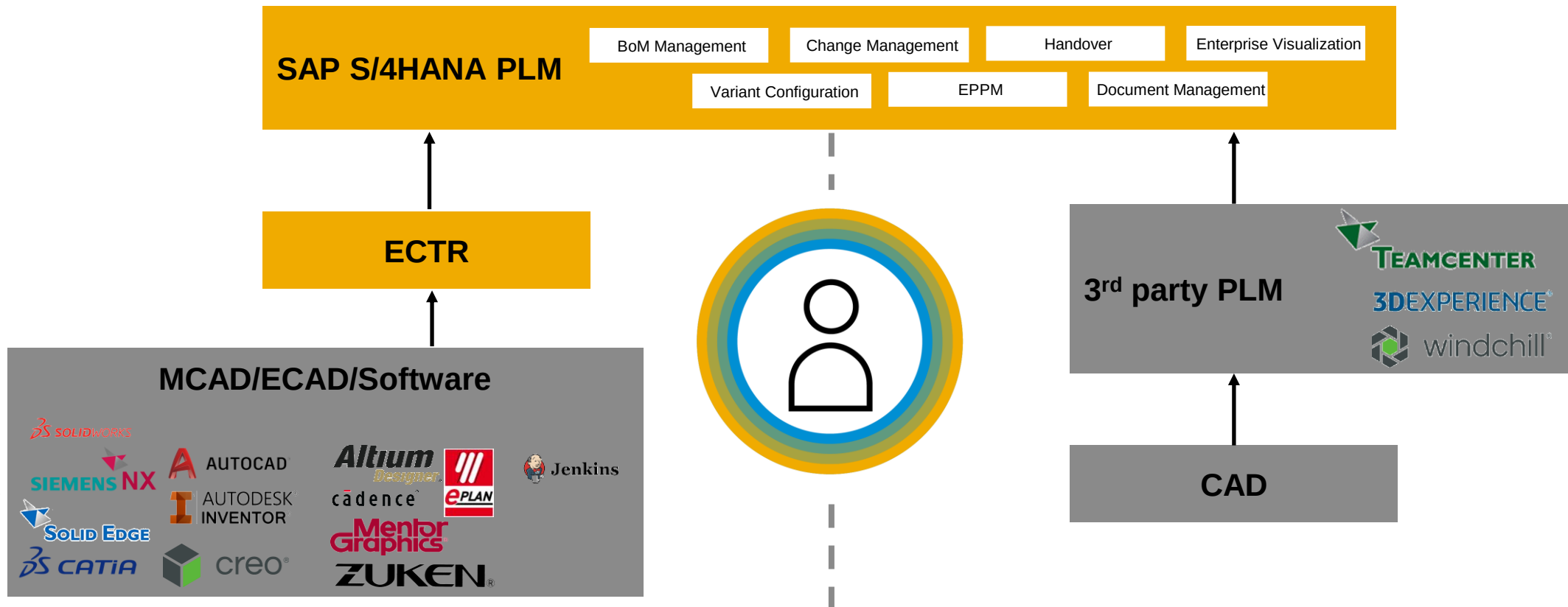


Authoring Tool Integration Strategy

S/4HANA Enterprise PLM

This strategic agreement has no impact on our existing SAP PLM solution portfolio in the foreseeable future. Thus, the current SAP PLM solution components, including the SAP Engineering Control Center (ECTR) and the associated interfaces, are still available to our customers and SAP intends to continue to develop them as usual. SAP's current [maintenance](https://blogs.sap.com/2020/07/22/siemens-and-sap-join-forces-to-accelerate-industrial-transformation/) commitments for SAP S/4HANA to the end of 2040 and the core applications of the SAP Business Suite to the end of 2027 also apply to these solutions if applicable.

Source: <https://blogs.sap.com/2020/07/22/siemens-and-sap-join-forces-to-accelerate-industrial-transformation/>



Recent Innovations

(shipped with ECTR 5.2.5 / 1.1.5 in July 2021, see [What's New](#))



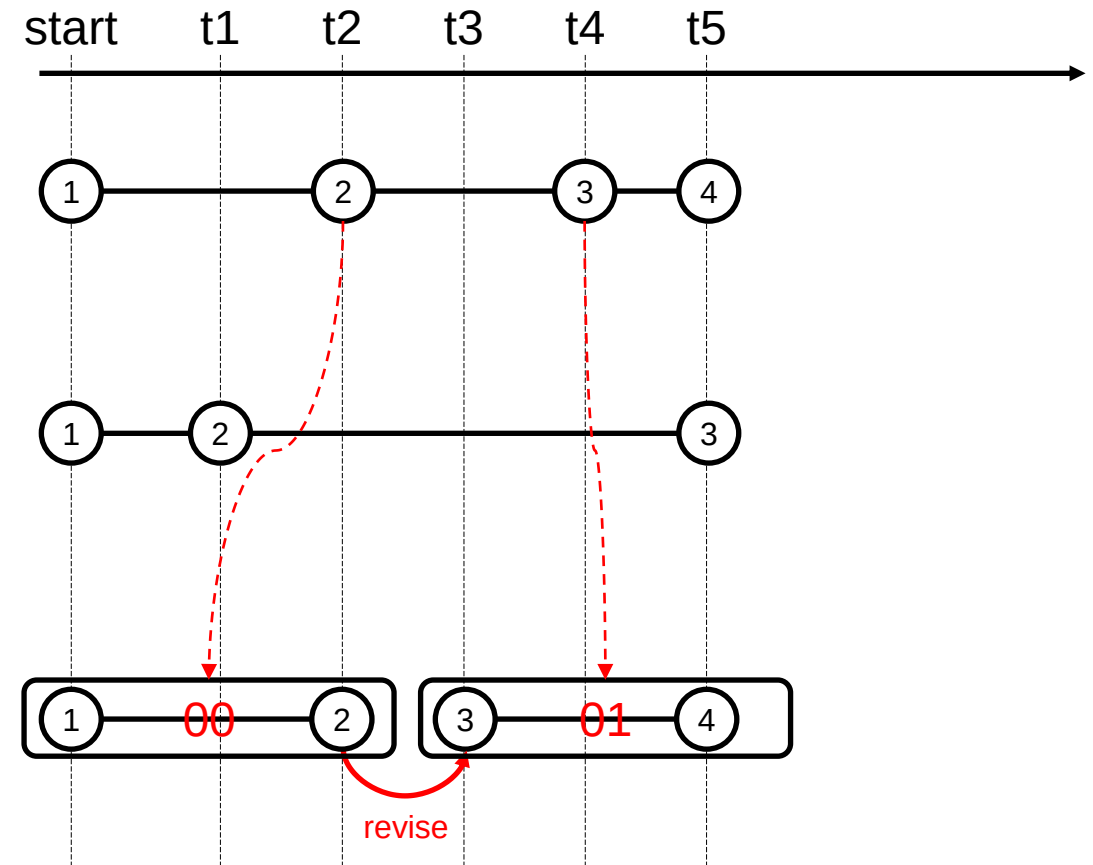
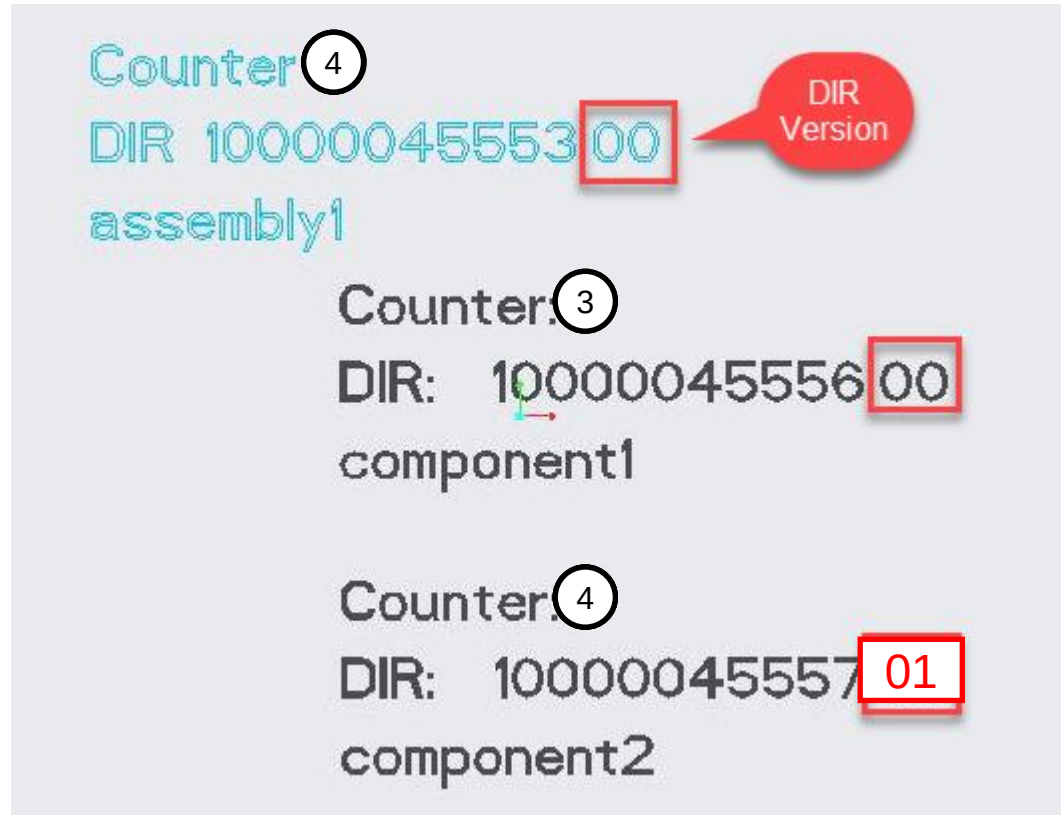
Recent Innovations – Improvement request [256333](#) “Snapshots”

Snapshots help engineers [revert to a specific state](#) during their iterative design process.

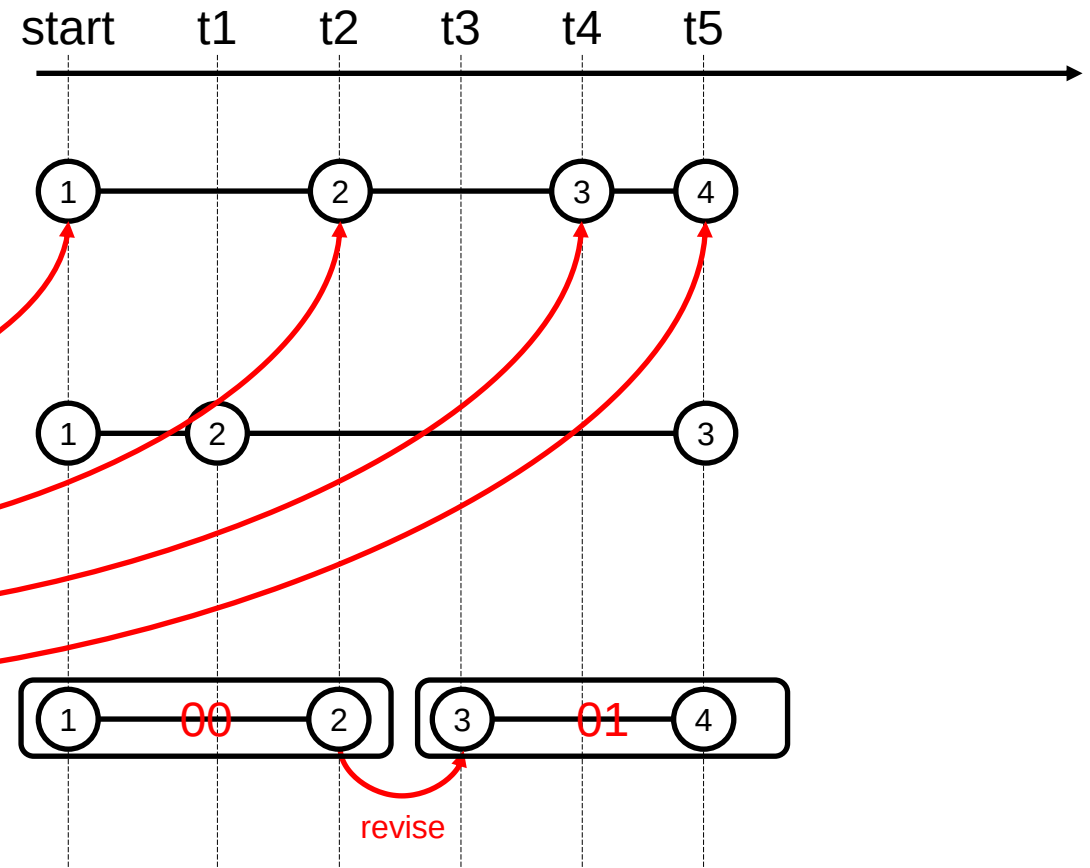
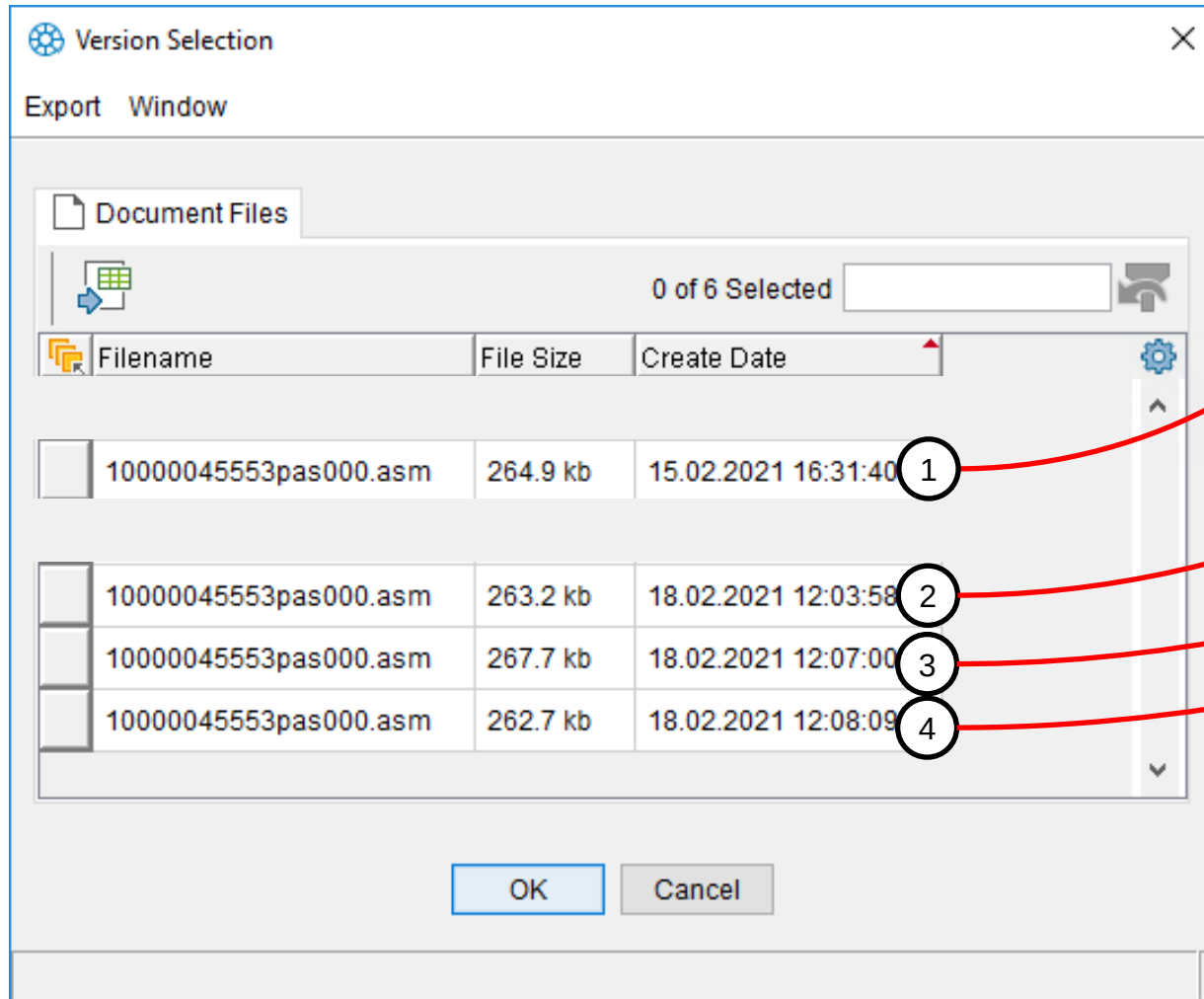
Snapshots are leveraging the [content versions](#) of originals which are created during each checkin.

Snapshots can be downloaded into a [separate working directory](#).

Recent Innovations – Improvement request [256333](#) “Snapshots”



Recent Innovations – Improvement request [256333](#) “Snapshots”



Options (test Version) No Change Number selected No Access Control Context Active

Show Administrator Menu

Save Desktop Configuration

Load Desktop Configuration

Quick Search Ctrl+F
Start Quick Search Ctrl+Q

Maintain Search Masks

Maintenance User Profile

Open Business Workplace

SAP GUI

NWBC for HTML

Open Document Snapshot

Launch Applications

Exit

250032 - container limits

256333 - Snapshots

archive

10000045553-PAS-000-00-assembly1

10000045555-PAS-000-00-assembly2

10000045558-PAS-000-00-toplevel

10000045552-PPR-000-00-component4

10000045554-PPR-000-04-component3

10000045556-PPR-000-00-component1

10000045557-PPR-000-01-component2

261181 - container limit for famili...

Object Types

Standard Components

Working Directory [default]

Object Browser

Document 10000045553-PAS-000-00-assembly1

Description assembly1

Originals	Descriptions/Long Texts	Status Log	Loaned Contexts	Assembly Statistics	Change History	History
Basic Data	Customer Data	Classification	Structure Data			
Main Data						
Document Number		10000045553				
Version		00				
BOM_UPD		NU				
VEG_STATUS						
User		HIMMELSBACHG				
Status Description and ID		Accessible (AC)				
DType Description and ID		PTC Creo - Assembly (PROAS)				
CAD Version and Environment		Creo 7.0 -				
Material		13377				
Change Number						
Laboratory/Office		002				
Create Date		15.02.2021				
Valid From - To (UTC)						
Last Saved Time		03.03.2021 09:16:10				
Transfer Size		268.2 kb				
Conversion Status						
Additional Data						
No characteristics defined						

Desktop: 1 object(s) selected



Desktop

Last Used Documents

SmartLists

Object Lists

Personal Folder

Public Folder

CAD Examples

Demo

2018-10-25 DSAG AK PLM

2019-06-25 CAD Partner Meeting

Archive IPD

Fein

Nespresso Demo

Share CAD files with IPD

Shattered Viewing

Software Integration

HHT

Improvement Requests

207014 - Open master drawing

228830 - use existing nonmaste...

250032 - container limits

256333 - Snapshots

archive

10000045553-PAS-000-00-assembly1

10000045555-PAS-000-00-assembly2

10000045558-PAS-000-00-toplevel

10000045552-PPR-000-00-component4

10000045554-PPR-000-04-component3

10000045556-PPR-000-00-component1

10000045557-PPR-000-01-component2

261181 - container limit for famili...

Object Types

Standard Components

Working Directory [default]

Version Selection

Export Window

Document Files

1 of 12 Selected

Filename	File Size	Create Date
10000045553pas000.asm	254.1 kb	15.02.2021 16:29:38
10000045553pas000.asm	264.9 kb	15.02.2021 16:31:40
10000045553pas000.asm	259.6 kb	18.02.2021 11:59:00
10000045553pas000.asm	263.2 kb	18.02.2021 12:03:58
10000045553pas000.asm	267.7 kb	18.02.2021 12:07:00
10000045553pas000.asm	262.7 kb	18.02.2021 12:08:09
10000045553pas000.asm	269.0 kb	03.03.2021 08:18:31
10000045553pas000.asm	265.1 kb	03.03.2021 08:40:49
10000045553pas000.asm	274.0 kb	03.03.2021 08:43:17
10000045553pas000.asm	268.5 kb	03.03.2021 08:59:28
10000045553pas000.asm	266.9 kb	03.03.2021 09:08:36
10000045553pas000.asm	268.2 kb	03.03.2021 09:16:13

OK

Cancel

Object Browser



Document

10000045553-PAS-000-00-assembly1

Description

assembly1

ned Contexts

Assembly Statistics

Change History

History

Classification

Structure Data

3

CHG

AC)

assembly (PROAS)

09:16:10

Engineering View (Highest Version) No Change Number selected No Access Control Context Active

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
 - CAD Examples
 - Demo
 - 2018-10-25 DSAG AK PLM
 - 2019-06-25 CAD Partner Meeting
 - Archive IPD
 - Fein
 - Nespresso Demo
 - Share CAD files with IPD
 - Shattered Viewing
 - Software Integration
 - HHT
 - Improvement Requests
 - 207014 - Open master drawing
 - 228830 - use existing nonmaste...
 - 250032 - container limits
 - 256333 - Snapshots
 - archive
 - 10000045553-PAS-000-00-assembly1
 - 10000045555-PAS-000-00-assembly2
 - 10000045558-PAS-000-00-toplevel
 - 10000045552-PPR-000-00-component4
 - 10000045554-PPR-000-04-component3
 - 10000045556-PPR-000-00-component1
 - 10000045557-PPR-000-01-component2
 - 261181 - container limit for famili...
 - Object Types
 - Standard Components
 - Working Directory [PAS/10000045553/000/00 assembly1 15.02.2021 16:31:40]

Open the file in CAD...

creo 10000045553PAS000 (Active) - Creo Parametric

File Model Analysis Live SimulationAnnotate Manikin Tools View FrameworkApplicationsSAP PLM

Operations Get Data Component Datum Cut & Surface Modifiers Model Display Model Intent Investigate

Model Tree

	SAP_DESCRIPTION_EN
10000045553PAS000.ASM	assembly1
ASM_RIGHT	
ASM_TOP	
ASM_FRONT	
ASM_DEF_CSYS	
Sketch 1	
10000045556PPR000.PRT	component1
10000045557PPR000.PRT	component2

Counter 1
DIR 10000045553 00
assembly1

Counter 1
DIR: 10000045556 00
component1

Counter 1
DIR: 10000045557 00
component2

SAP PLM: 10000045553pas000.asm; 10000045553,PAS,00,000 - Mode: "Display"

Options (test Version) No Change Number selected No Access Control Context Active

Show Administrator Menu

Save Desktop Configuration

Load Desktop Configuration

Quick Search Ctrl+F
Start Quick Search Ctrl+Q

Maintain Search Masks

Maintenance User Profile

Open Business Workplace

SAP GUI

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10000045556-PPR-000-00-component1

10000045557-PPR-000-01-component2

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Object Types

Standard Components

Working Directory [default]

Object Browser

Document 10000045553-PAS-000-00-assembly1

Description assembly1

Originals	Descriptions/Long Texts	Status Log	Loaned Contexts	Assembly Statistics	Change History	History
Basic Data	Customer Data	Classification	Structure Data			
Main Data						
Document Number		10000045553				
Version		00				
BOM_UPD		NU				
VEG_STATUS						
User		HIMMELSBACHG				
Status Description and ID		Accessible (AC)				
DType Description and ID		PTC Creo - Assembly (PROAS)				
CAD Version and Environment		Creo 7.0 -				
Material		13377				
Change Number						
Laboratory/Office		002				
Create Date		15.02.2021				
Valid From - To (UTC)						
Last Saved Time		03.03.2021 09:16:10				
Transfer Size		268.2 kb				
Conversion Status						
Additional Data						
No characteristics defined						

Desktop: 1 object(s) selected



Desktop

Last Used Documents

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Object Lists

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Public Folder

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2019-06-25 CAD Partner Meeting

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10000045555-PAS-000-00-assembly2

10000045558-PAS-000-00-toplevel

10000045552-PPR-000-00-component4

10000045554-PPR-000-04-component3

10000045556-PPR-000-00-component1

10000045557-PPR-000-01-component2

261181 - container limit for famili...

Object Types

Standard Components

Working Directory [PAS/10000045553/000/00 assembly1 15.02.2021 16:31:40]

Version Selection

Export Window

Document Files

1 of 12 Selected

Filename	File Size	Create Date
10000045553pas000.asm	254.1 kb	15.02.2021 16:29:38
10000045553pas000.asm	264.9 kb	15.02.2021 16:31:40
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10000045553pas000.asm	263.2 kb	18.02.2021 12:03:58
☒ 10000045553pas000.asm	267.7 kb	18.02.2021 12:07:00
10000045553pas000.asm	262.7 kb	18.02.2021 12:08:09
10000045553pas000.asm	269.0 kb	03.03.2021 08:18:31
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10000045553pas000.asm	274.0 kb	03.03.2021 08:43:17
10000045553pas000.asm	268.5 kb	03.03.2021 08:59:28
10000045553pas000.asm	266.9 kb	03.03.2021 09:08:36
10000045553pas000.asm	268.2 kb	03.03.2021 09:16:13

OK

Cancel

Object Browser



Document

10000045553-PAS-000-00-assembly1

Description

assembly1

ned Contexts

Assembly Statistics

Change History

History

Classification

Structure Data

3

CHG

AC)

assembly (PROAS)

09:16:10

Engineering View (Highest Version) No Change Number selected No Access Control Context Active

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
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 - CAD Examples
 - Demo
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 - 2019-06-25 CAD Partner Meeting
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 - Fein
 - Nespresso Demo
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 - Software Integration
 - HHT
 - Improvement Requests
 - 207014 - Open master drawing
 - 228830 - use existing nonmaste...
 - 250032 - container limits
 - 256333 - Snapshots
 - archive
 - 10000045553-PAS-000-00-assembly1
 - 10000045555-PAS-000-00-assembly2
 - 10000045558-PAS-000-00-toplevel
 - 10000045552-PPR-000-00-component4
 - 10000045554-PPR-000-04-component3
 - 10000045556-PPR-000-00-component1
 - 10000045557-PPR-000-01-component2
 - 261181 - container limit for famili...
 - Object Types
 - Standard Components
 - Working Directory [PAS/10000045553/000/00 assembly1 18.02.2021 12:07:00]

Open the file in CAD...

creo 10000045553PAS000 (Active) - Creo Parametric

File Model Analysis Live SimulationAnnotate Manikin Tools View FrameworkApplicationsSAP PLM

Operations Get Data Component Datum Cut & Surface Modifiers Model Display Model Intent Investigate

Model Tree

	SAP_DESCRIPTION_EN
10000045553PAS000.ASM	assembly1
ASM_RIGHT	
ASM_TOP	
ASM_FRONT	
ASM_DEF_CSYS	
Sketch 1	
10000045556PPR000.PRT	component1
10000045557PPR000.PRT	component2

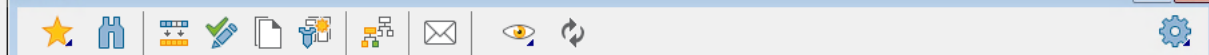
Counter³
DIR 10000045553 00
assembly1

Counter²
DIR: 10000045556 00
component1

Counter³
DIR: 10000045557⁰¹
component2

SAP PLM: 10000045553pas000.asm; 10000045553,PAS,00,000 - Mode: "Display"

Desktop: 1 object(s) selected



Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
- CAD Examples
- Demo
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- 2019-06-25 CAD Partner Meeting
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- Nespresso Demo
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- Shattered Viewing
- Software Integration
- HHT
- Improvement Requests
- 207014 - Open master drawing
- 228830 - use existing nonmaste...
- 250032 - container limits
- 256333 - Snapshots
- archive
- 1000004553
- 1000004553
- 1000004553
- 1000004553
- 1000004553
- 1000004553
- 1000004553
- 1000004553
- 261181 - container limit for famili...
- Object Types
- Standard Components
- Working Directory [default]

- Open Original
- Open Original with Assistant
- Open Original for Edit
- Open Original for Edit with Assistant
- Create Dependent Document
- Change Document Status
- Create New Version
- Document
- Material
- Bill of Material
- Collaboration
- You can also...
- Object Lists Operations
- Change Numbers
- Copy
- Cut
- Remove
- Refresh

The change of the working directory to 'default' is d

Object Browser



Document 1000004553-PAS-000-00-assembly1

Description assembly1

Originals Descriptions/Long Texts Status Log Loaned Contexts Assembly Statistics Change History History

Basic Data Customer Data Classification Structure Data

Main Data

Document Number	1000004553
Version	00
BOM_UPD	NU
VEG_STATUS	
User	HIMMELSBACHG
Status Description and ID	Accessible (AC)
DType Description and ID	PTC Creo - Assembly (PROAS)
CAD Version and Environment	Creo 7.0 -
Material	13377
Change Number	
Laboratory/Office	002
Create Date	15.02.2021
Valid From - To (UTC)	
Last Saved Time	03.03.2021 09:16:10
Transfer Size	268.2 kb
Conversion Status	

Additional Data

No characteristics defined

Engineering View (Highest Version) No Change Number selected No Access Control Context Active

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
 - CAD Examples
 - Demo
 - 2018-10-25 DSAG AK PLM
 - 2019-06-25 CAD Partner Meeting
 - Archive IPD
 - Fein
 - Nespresso Demo
 - Share CAD files with IPD
 - Shattered Viewing
 - Software Integration
 - HHT
 - Improvement Requests
 - 207014 - Open master drawing
 - 228830 - use existing nonmaste...
 - 250032 - container limits
 - 256333 - Snapshots
 - archive
 - 10000045553-PAS-000-00-assembly1
 - 10000045555-PAS-000-00-assembly2
 - 10000045558-PAS-000-00-toplevel
 - 10000045552-PPR-000-00-component4
 - 10000045554-PPR-000-04-component3
 - 10000045556-PPR-000-00-component1
 - 10000045557-PPR-000-01-component2
 - 261181 - container limit for famili...
 - Object Types
 - Standard Components
 - Working Directory [default]

creo 10000045553PAS000 (Active) - Creo Parametric

File Model Analysis Live SimulationAnnotate Manikin Tools View FrameworkApplicationsSAP PLM

Operations Get Data Component Datum Cut & Surface Modifiers Model Display Model Intent Investigate

Model Tree

10000045553PAS000.ASM assembly1

- ASM_RIGHT
- ASM_TOP
- ASM_FRONT
- ASM_DEF_CSYS
- Sketch 1
- 10000045556PPR000.PRT component1
- 10000045557PPR000.PRT component2
- 10000045554PPR000.PRT component3
- 10000045554PPR000.PRT component3

Counter: 7
DIR: 10000045553 00
assembly1

Counter: 3
DIR: 10000045556 00
component1

Counter: 4
DIR: 10000045557 01
component2

Counter: 10
DIR: 10000045554
Version: 04
component3

Counter: 10
DIR: 10000045554
Version: 04
component3

SAP ECTR interface to PTC Creo: Command "Open ECTR" started.
SAP ECTR interface to PTC Creo: Command "Open ECTR" finished.
SAP PLM: 10000045553pas000.asm; 10000045553,PAS,00,000 - Mode: "Display"

Recent Innovations – “Checkout Assistant” ([201055](#), [201051](#), [207956](#))

The checkout-assistant is a wizard to [support opening an assembly](#) in SAP Engineering Control Center.

The checkout-assistant [compares local CAD-files](#), with CAD files in session and CAD files stored in SAP.

The checkout-assistant [offers proposals](#) to overwrite or ignore local modified files or force to update them.

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
- CAD Examples
- Demo
- HHT
- Improvement Requests
- 207014 - Open master drawing
- 228830 - use existing nonmaste...
- 250032 - container limits
- 256333 - Snapshots
- archive
 - 10000045553-PAS-000-00-assembly1
 - 10000045555-PAS-000-00-assembly2
 - 10000045558-PAS-000-00-toplevel
 - 10000045552-PP
 - 10000045554-PP
 - 10000045556-PP
 - 10000045557-PP
- 261181 - container limit for famili...
- Object Types
- Standard Components
- Working Directory [PAS/10000045558/000/00 toplev

10000045558-PAS-000-00-toplevel

Open Original

Open Original with Assistant

Open Original for Edit

Open Original for Edit with Assistant

Create Dependent Document

Change Document Status

Create New Version

Document

Material

Bill of Material

Collaboration

You can also...

Object Lists Operations

Change Numbers

Copy Ctrl+C

Cut Ctrl+X

Remove Delete

Refresh F5

Object Browser

Document 10000045558-PAS-000-00-toplevel

Description toplevel

Originals	Descriptions/Long Texts	Status Log	Loaned Contexts	Assembly Statistics	Change History	History
Basic Data	Customer Data	Classification	Structure Data			
Main Data						
Document Number		10000045558				
Version		00				
BOM_UPD		NA				
VEG_STATUS						
User		HIMMELSBACHG				
Status Description and ID		Accessible (AC)				
DType Description and ID		PTC Creo - Assembly (PROAS)				
CAD Version and Environment		Creo 7.0 -				
Material		13381				
Change Number						
Laboratory/Office		002				
Create Date		15.02.2021				
Valid From - To (UTC)						
Last Saved Time		12.04.2021 17:27:20				
Transfer Size		258.6 kb				
Conversion Status						
Additional Data						

QIY 002

2:30 PM 4/14/2021

Desktop: 1 object(s) selected



Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
- CAD Examples
- Demo
- HHT
- Improvement Requests
- 207014 - Open master drawing
- 228830 - use existing nonmas
- 250032 - container limits
- 256333 - Snapshots
- archive
- 261181 - container limit for fan
- Object Types
- Standard Components
- Working Directory [PAS/10000045558]

Object Browser



Document

10000045558-PAS-000-00-toplevel

Check-out Assistant

Export Window

Issue View

Overview of the detected issues. Here you can define how they shall be solved.



0 of 6 Selected

Icon T...	Ico...	Ico...	Ico...	Document Number	Docu...	Part...	Version	Description	Application State	Working Directory	Issue Type	Issue	Issue Description	Solution	Status Text
				10000045556	PPR	000	00	component1	Loaded	Modified Up-to-date	!	Locally modified	The document is locally modified.		Accessible
				10000045558	PAS	000	00	toplevel	Not Loaded	Modified Up-to-date	!	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045555	PAS	000	00	assembly2	Not Loaded	Modified Up-to-date	!	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045557	PPR	000	01	component2	Not Loaded	Modified Up-to-date	!	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045554	PPR	000	04	component3	Not Loaded	Modified Up-to-date	!	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045553	PAS	000	00	assembly1	Not Loaded	Modified Up-to-date	!	Locally modified	The document is locally modified.	Discard local changes	Accessible

☐ Skip transfer view

Solve Issues

Solve and Continue

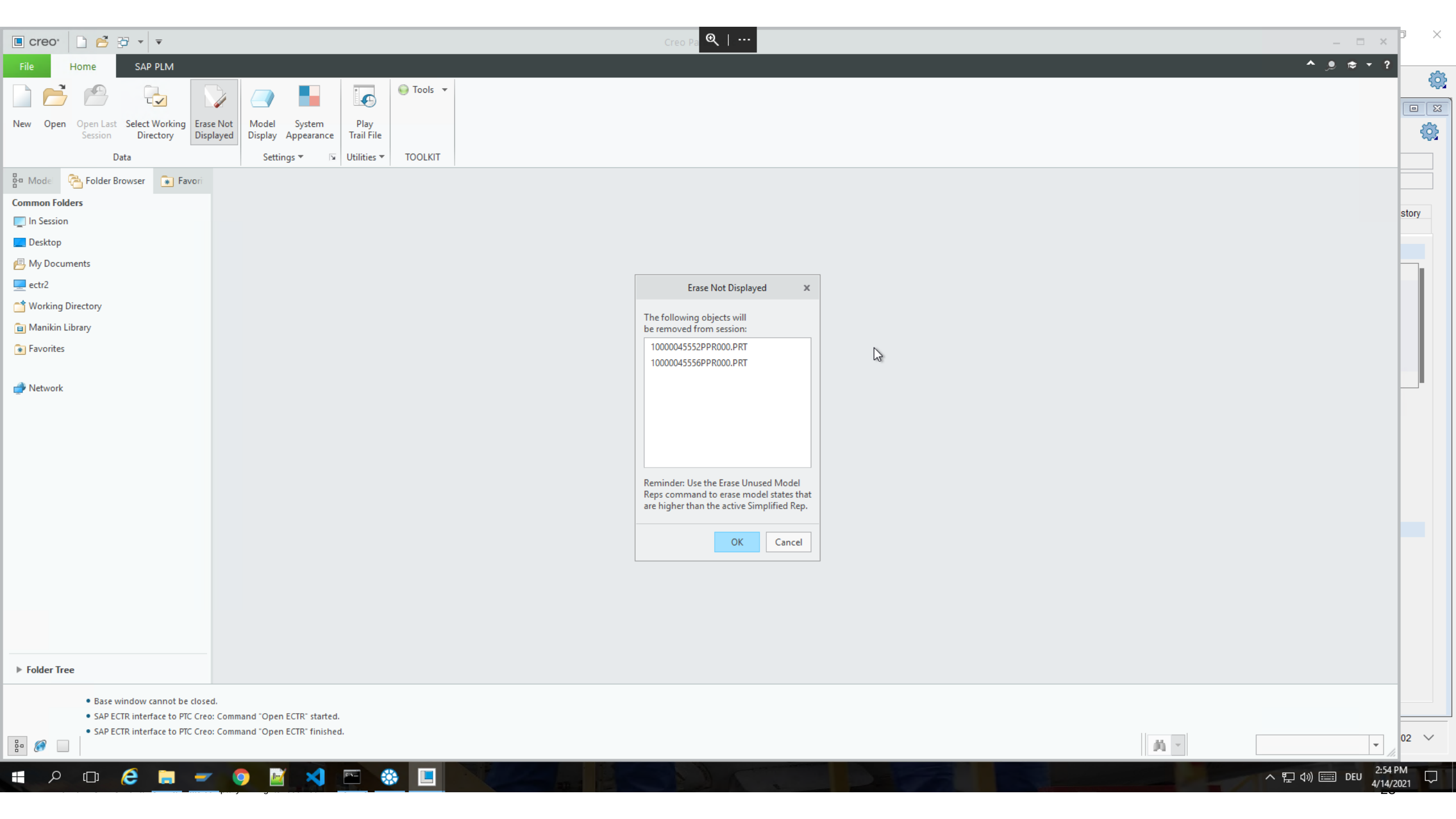
Cancel

No characteristics defined

50%



QIY 002



Erase Not Displayed

The following objects will be removed from session:

10000045552PPR000.PRT
10000045556PPR000.PRT

Reminder: Use the Erase Unused Model Reps command to erase model states that are higher than the active Simplified Rep.

OKCancel

- Base window cannot be closed.
- SAP ECTR interface to PTC Creo: Command "Open ECTR" started.
- SAP ECTR interface to PTC Creo: Command "Open ECTR" finished.

Desktop: 1 object(s) selected



Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
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- Improvement Requests
- 207014 - Open master drawing
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- 250032 - container limits
- 256333 - Snapshots
- archive
- 261181 - container limit for fan
- Object Types
- Standard Components
- Working Directory [PAS/10000045558]

Check-out Assistant

Export Window

Issue View

Overview of the detected issues. Here you can define how they shall be solved.

0 of 6 Selected

Icon	T...	Ico...	Ico...	Document Number	Docu...	Part...	Version	Description	Application State	Working Directory	Issue Type	Issue	Issue Description	Solution	Status Text
				10000045558	PAS	000	00	toplevel	Not Loaded	Modified Up-to-date	⚠	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045555	PAS	000	00	assembly2	Not Loaded	Modified Up-to-date	⚠	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045557	PPR	000	01	component2	Not Loaded	Modified Up-to-date	⚠	Locally modified	The document is locally modified.	Keep local change	Accessible
				10000045556	PPR	000	00	component1	Not Loaded	Modified Up-to-date	⚠	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045554	PPR	000	04	component3	Not Loaded	Modified Up-to-date	⚠	Locally modified	The document is locally modified.	Discard local changes	Accessible
				10000045553	PAS	000	00	assembly1	Not Loaded	Modified Up-to-date	⚠	Locally modified	The document is locally modified.	Discard local changes	Accessible

☐ Skip transfer view

Solve Issues

Solve and Continue

Cancel

No characteristics defined

50%

QIY 002

Desktop: 1 object(s) selected



Desktop

- Last Used Documents
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 - 100
 - 100
 - 100
 - 100
 - 100
 - 100
 - 100
- 261181 - container limit for fan
- Object Types
- Standard Components
- Working Directory [PAS/10000045558]

Object Browser



Document 10000045558-PAS-000-00-toplevel

Check-out Assistant

Export Window

Transfer View

Overview of the actions that are performed for the file transfer.

Total: 7 File(s) / 4.9 mb Missing: 6 File(s) / 3.9 mb Available: 1 File(s) / 1,014.1 kb

0 of 7 Selected

Icon V...	Icon ...	Icon T...	Working Directory	Transfer Action	Description	Document Number	Documen...	Version	User	Last Saved Time	Master Part	Dirty Flag	Reserve field 4
			Not Available	Transfer	toplevel	10000045558	PAS	00	HIMMELSBACHG	12.04.2021 17:27:20	M		PRO:A
			Not Available	Transfer	assembly2	10000045555	PAS	00	HIMMELSBACHG	12.04.2021 17:27:20	M		PRO:A
			Not Available	Transfer	component2	10000045557	PPR	01	HIMMELSBACHG	12.04.2021 17:27:20	M		PRO:P
			Not Available	Transfer	component1	10000045556	PPR	00	HIMMELSBACHG	12.04.2021 17:27:20	M		PRO:P
			Up-to-date	No action	component4	10000045552	PPR	00	HIMMELSBACHG	12.04.2021 17:27:20	M		PRO:P
			Not Available	Transfer	component3	10000045554	PPR	04	HIMMELSBACHG	04.03.2021 09:17:10	M		PRO:P
			Not Available	Transfer	assembly1	10000045553	PAS	00	HIMMELSBACHG	03.03.2021 09:16:10	M		PRO:A

Continue

Cancel

No characteristics defined

50%



QIY 002

creo

10000045558PAS000 (A) Parametric

File

Model

Analysis

Live Simulation

Annotate

Manikin

Tools

View

Framework

Applications

SAP PLM

Regenerate

Get Data

Operations

Assemble

Get Data

Component

Create

Repeat

Mirror Component

Drag Components

Plane

Axis

Point

Coordinate System

Sketch

Hole

Extrude

Revolve

Cut & Surface

Pattern

Manage Views

Section

Appearances

Model Display

Exploded View

Toggle Status

Edit Position

Display Style

Perspective View

Component Interface

Publish Geometry

Family Table

Model Intent

Parameters

Switch Dimensions

Relations

Bill of Materials

Reference Viewer

Investigate

Model Tree

Folder Browser

Favorites

Model Tree

SAP_DESCRIPTION_EN

10000045558PAS000.ASM

toplevel

ASM_RIGHT

ASM_TOP

ASM_FRONT

ASM_DEF_CSYS

Sketch 1

10000045553PAS000.ASM

assembly1

10000045555PAS000.ASM

assembly2

Counter 2

DIR: 10000045558 00

toplevel

Counter 7

DIR: 10000045553 00

assembly1

Counter: 4

DIR: 10000045556 00

component1

Counter: 5

DIR: 10000045557 01

component2

Counter: 10

DIR: 10000045554

Version: 04

component3

Counter: 10

DIR: 10000045554

Version: 04

component3

Counter 5

DIR: 10000045555 00

assembly2

Counter: 10

DIR: 10000045554

Version: 04

component3

Counter: 2

DIR: 10000045552 00

component4

SAP ECTR interface to PTC Creo: Command "Open ECTR" started.

SAP ECTR interface to PTC Creo: Command "Open ECTR" finished.

SAP PLM: 10000045558pas000.asm; 10000045558,PAS,00,000 - Mode: "Display"

Geometry

02

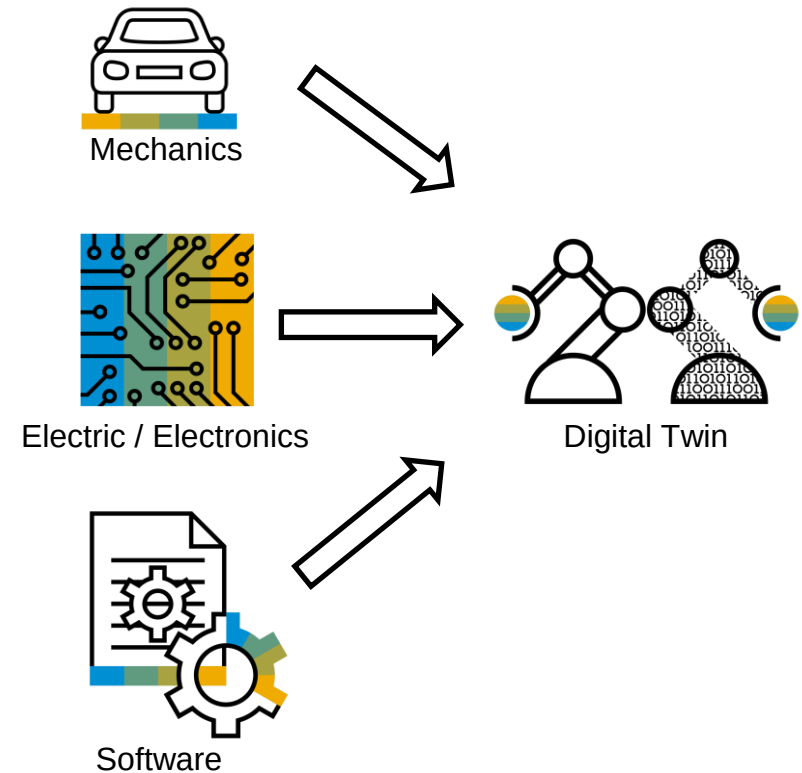
Recent Innovations – “Software Integration”

Extend the capabilities to integrate also software into the overall **virtual product model**

Software is managed within **source control systems** or Integrated Development Environments (IDE)

Handover build result (binary code) from Build Server (currently Jenkins) and **manage** it in SAP PLM as **Document Info Record and Material Master**.

In SAP S/4HANA: **new Business Object** called “Software”.



Desktop: 1 object(s) selected

Desktop

Last Used Documents

SmartLists

Jenkins Projects

01ECTR_TO_JENKINS Autonomous traffic light control

Latest Successful Build

01ECTR_TO_JENKINS Autonomous traffic light control 0023

All Builds

01ECTR_TO_JENKINS	Autonomous traffic light control	0001
01ECTR_TO_JENKINS	Autonomous traffic light control	0002
01ECTR_TO_JENKINS	Autonomous traffic light control	0003
01ECTR_TO_JENKINS	Autonomous traffic light control	0004
01ECTR_TO_JENKINS	Autonomous traffic light control	0005
01ECTR_TO_JENKINS	Autonomous traffic light control	0006
01ECTR_TO_JENKINS	Autonomous traffic light control	0016
01ECTR_TO_JENKINS	Autonomous traffic light control	0017
01ECTR_TO_JENKINS	Autonomous traffic light control	0018
01ECTR_TO_JENKINS	Autonomous traffic light control	0019
01ECTR_TO_JENKINS	Autonomous traffic light control	0020
01ECTR_TO_JENKINS	Autonomous traffic light control	0021
01ECTR_TO_JENKINS	Autonomous traffic light control	0022
01ECTR_TO_JENKINS	Autonomous traffic light control	0023

Transfer Build

Software Projects

Autonomous traffic light control 9565

Newest Software Version

Software Version(s)

Software Material

9565	SWNV	consume thresholds to control L...
10000033764	SWV 00	fix threshold checks for boundaries
10000033764	SWV 01	reduction on energy consumption
10000033764	SWV 08	test message 2
10000033764	SWV 16	#22

Software Document(s)

Software used in Bills of Material

Software assigned in Folders

01ECTR_TO_JENKINS CheckTheNewProject

01ECTR_TO_JENKINS Continuous Signal

01ECTR_TO_JENKINS Firmware - sensor control

01ECTR_TO_JENKINS SAPPLM

01ECTR_TO_JENKINS Threshold settings

01ECTR_TO_JENKINS Wiper Controller A

retrieved from
Jenkins Build
Server

Object Browser

Job/Project 01ECTR_TO_JENKINS Autonomous traffic light control

Description consume thresholds to control LED lighs

Basic Data Structure Data

Address of the CI-server	ECTR_TO_JENKINS
Description of the Software Project	consume thresholds to control LED lighs
External Name of the Software Project	Autonomous traffic light control
Indicator: Software Project is buildable	X
URL-address of the Software Project	http://ectr1.ectr.c.eu-de-1.cloud.sap:8080/job/Autonomous traffic light control/

Desktop: 1 object(s) selected

Desktop

Last Used Documents

SmartLists

Jenkins Projects

01ECTR_TO_JENKINS Autonomous traffic light control

Latest Successful Build

01ECTR_TO_JENKINS Autonomous traffic light control 0023

All Builds

01ECTR_TO_JENKINS	Autonomous traffic light control	0001
01ECTR_TO_JENKINS	Autonomous traffic light control	0002
01ECTR_TO_JENKINS	Autonomous traffic light control	0003
01ECTR_TO_JENKINS	Autonomous traffic light control	0004
01ECTR_TO_JENKINS	Autonomous traffic light control	0005
01ECTR_TO_JENKINS	Autonomous traffic light control	0006
01ECTR_TO_JENKINS	Autonomous traffic light control	0016
01ECTR_TO_JENKINS	Autonomous traffic light control	0017
01ECTR_TO_JENKINS	Autonomous traffic light control	0018
01ECTR_TO_JENKINS	Autonomous traffic light control	0019
01ECTR_TO_JENKINS	Autonomous traffic light control	0020
01ECTR_TO_JENKINS	Autonomous traffic light control	0021
01ECTR_TO_JENKINS	Autonomous traffic light control	0022
01ECTR_TO_JENKINS	Autonomous traffic light control	0023

Software Projects

Autonomous traffic light control 9565

Newest Software Version

Software Version(s)

Software Material

9565 SWNV consume thresholds to control L

Software Document(s)

10000033764	SWV	00	fix threshold checks for boundaries
10000033764	SWV	01	reduction on energy consumption
10000033764	SWV	08	test message 2
10000033764	SWV	16	#22
10000033764	SWV	17	#23

Software used in Bills of Material

Software assigned in Folders

01ECTR_TO_JENKINS	CheckTheNewProject
01ECTR_TO_JENKINS	Continuous Signal
01ECTR_TO_JENKINS	Firmware - sensor control
01ECTR_TO_JENKINS	SAPPLM
01ECTR_TO_JENKINS	Threshold settings

Object Browser

Latest Build 01ECTR_TO_JENKINS Autonomous traffic light control 0023

Description

Basic Data

Address of the CI-server	ECTR_TO_JENKINS
Counter of the Software Version	0023
Description	consume thresholds to control LED lights
Description of the Software Version	
External ID of the Software Version	#23
External Name of the Software Project	Autonomous traffic light control
Indicator: Software available in PLM process	X
Indicator: Software Project is buildable	X
Timestamp of the Software Version	1618408290948
URL-address of the Software Project	http://ECTR1.ECTR.C.EU-DE-1.CLOUD.SAP:8080/job/Autonomous traffic light control/
URL-address of the Software Version	http://ECTR1.ECTR.C.EU-DE-1.CLOUD.SAP:8080/job/Autonomous traffic light control/23/

Desktop: 1 object(s) selected



Desktop

Last Used Documents

SmartLists

Jenkins Projects

01ECTR_TO_JENKINS	Autonomous traffic light control	
Latest Successful Build		
01ECTR_TO_JENKINS	Autonomous traffic light control	0023
All Builds		
01ECTR_TO_JENKINS	Autonomous traffic light control	0001
01ECTR_TO_JENKINS	Autonomous traffic light control	0002
01ECTR_TO_JENKINS	Autonomous traffic light control	0003
01ECTR_TO_JENKINS	Autonomous traffic light control	0004
01ECTR_TO_JENKINS	Autonomous traffic light control	0005
01ECTR_TO_JENKINS	Autonomous traffic light control	0006
01ECTR_TO_JENKINS	Autonomous traffic light control	0016
01ECTR_TO_JENKINS	Autonomous traffic light control	0017
01ECTR_TO_JENKINS	Autonomous traffic light control	0018
01ECTR_TO_JENKINS	Autonomous traffic light control	0019
01ECTR_TO_JENKINS	Autonomous traffic light control	0020
01ECTR_TO_JENKINS	Autonomous traffic light control	0021
01ECTR_TO_JENKINS	Autonomous traffic light control	0022
01ECTR_TO_JENKINS	Autonomous traffic light control	0023

Software Projects

Autonomous traffic light control	9565			
Newest Software Version				
Software Version(s)				
Software Material				
9565	SWNV	consume thresholds to control L...		
Software Document(s)				
10000033764	SWV	00	fix threshold checks for boundaries	
10000033764	SWV	01	reduction on energy consumption	
10000033764	SWV	08	test message 2	
10000033764	SWV	16	#22	
10000033764	SWV	17	#23	
Software used in Bills of Material				
Software assigned in Folders				
01ECTR_TO_JENKINS	CheckTheNewProject			
01ECTR_TO_JENKINS	Continuous Signal			
01ECTR_TO_JENKINS	Firmware - sensor control			
01ECTR_TO_JENKINS	SAPPLM			
01ECTR_TO_JENKINS	Threshold settings			

File 'my_executable.exe' has been added to document SWV/10000033764/000/17 (ANY).

Object Browser



Document 10000033764 SWV 17

Description #23

Originals	Descriptions/Long Texts	Status Log	Loaned Contexts	Assembly Statistics	Change History	History
Basic Data	Customer Data	Classification	Structure Data			

Main Data

User	HIMMELSBACHG
Status Description and ID	In Work (IA)
DType Description and ID	Undefined Type (NONE)
CAD Version and Environment	-
Material	9565
Change Number	
Laboratory/Office	
Create Date	14.04.2021
Valid From - To (UTC)	
Last Saved Time	14.04.2021 16:01:20
Transfer Size	0.0 b

Additional Data

No characteristics defined

Desktop: 1 object(s) selected



Desktop

Last Used Documents

SmartLists

Jenkins Projects

01ECTR_TO_JENKINS Autonomous traffic light control 0023

Latest Successful Build

01ECTR_TO_JENKINS Autonomous traffic light control 0023

All Builds

01ECTR_TO_JENKINS Autonomous traffic light control 0001

01ECTR_TO_JENKINS Autonomous traffic light control 0002

01ECTR_TO_JENKINS Autonomous traffic light control 0003

01ECTR_TO_JENKINS Autonomous traffic light control 0004

01ECTR_TO_JENKINS Autonomous traffic light control 0005

01ECTR_TO_JENKINS Autonomous traffic light control 0006

01ECTR_TO_JENKINS Autonomous traffic light control 0016

01ECTR_TO_JENKINS Autonomous traffic light control 0017

01ECTR_TO_JENKINS Autonomous traffic light control 0018

01ECTR_TO_JENKINS Autonomous traffic light control 0019

01ECTR_TO_JENKINS Autonomous traffic light control 0020

01ECTR_TO_JENKINS Autonomous traffic light control 0021

01ECTR_TO_JENKINS Autonomous traffic light control 0022

01ECTR_TO_JENKINS Autonomous traffic light control 0023

Software Projects

Autonomous traffic light control 9565

Newest Software Version

Software Version(s)

Software Material

9565 SWNV consume thresholds to control L...

Software Document(s)

x 10000033764 SWV 00 fix threshold checks for boundaries

x 10000033764 SWV 01 reduction on energy consumption

x 10000033764 SWV 08 test message 2

x 10000033764 SWV 16 #22

x 10000033764 SWV 17 #23

Software used in Bills of Material

Software assigned in Folders

01ECTR_TO_JENKINS CheckTheNewProject

01ECTR_TO_JENKINS Continuous Signal

01ECTR_TO_JENKINS Firmware - sensor control

01ECTR_TO_JENKINS SAPPLM

01ECTR_TO_JENKINS Threshold settings

Object Browser



Document 10000033764 SWV 17

Description #23

Basic Data	Customer Data	Classification	Structure Data			
Originals	Descriptions/Long Texts	Status Log	Loaned Contexts	Assembly Statistics	Change History	History

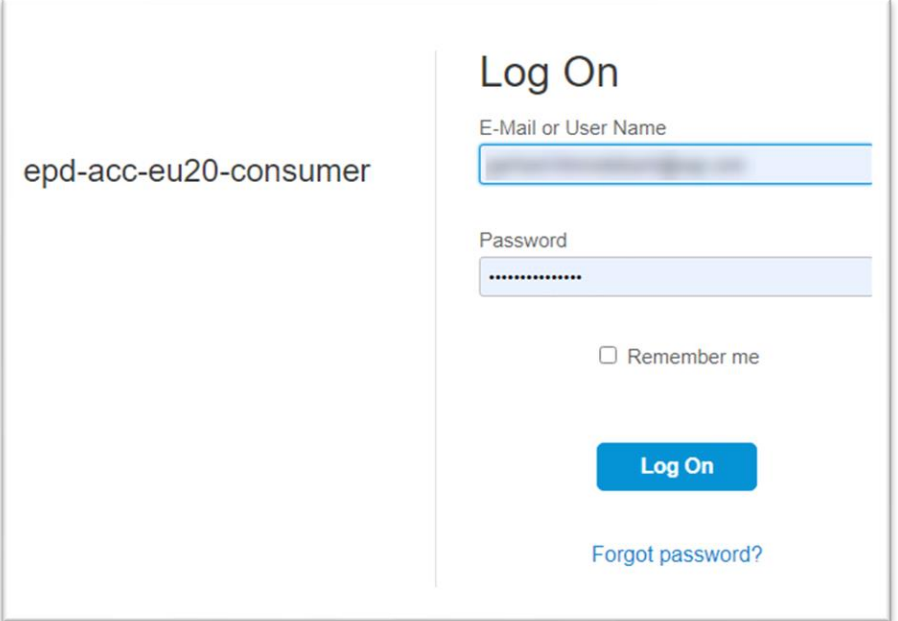
Originals	X ANY my_executable.exe
-----------	-------------------------

File 'my_executable.exe' has been added to document SWV/10000033764/000/17 (ANY).

QIY 002

Recent Innovations – “ECTR-EPD-Collaboration”

Updated authentication mechanism to leverage SAP Enterprise Product Development's identity provider



The screenshot shows a login page for the application 'epd-acc-eu20-consumer'. On the right side, there is a 'Log On' section with two input fields: 'E-Mail or User Name' and 'Password'. The 'E-Mail or User Name' field contains a blurred email address. The 'Password' field is filled with dots. Below these fields is a checkbox labeled 'Remember me' which is currently unchecked. A blue 'Log On' button is positioned below the checkbox. At the bottom of the login section, there is a blue link that says 'Forgot password?'. The entire login form is enclosed in a light gray border.

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
- CAD Examples
- Demo
 - 2018-10-25 DSAG AK PLM
 - 2019-06-25 CAD Partner Meeting
 - Archive IPD
 - Fein
 - Nespresso Demo
 - Share CAD files with EPD
 - 10000010124 SWA 00 conveyer
 - Shattered Viewing
 - Software Integration
- HHT
- Improvement Requests
- Object Types
- Standard Components

Working Directory [PAS/10000045558/000/00 toplevel 15.02.2021 16:31:39]

Object Browser

Content Of Share CAD files with EPD

10000010124-SWA-000-00-conveyer

1 Objects (Total 1 Objects)

Collaboration

Collaborations

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
- CAD Examples
- Demo
 - 2018-10-25 DSAG AK PLM
 - 2019-06-25 CAD Partner Meeting
 - Archive IPD
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 - Software Integration
- HHT
- Improvement Requests
- Object Types
- Standard Components

Working Directory [PAS/10000045558/000/00 toplevel 15.02.2021 16:31:39]

Object Browser

Content Of Share CAD files with EPD

10000010124-SWA-000-00-conveyer

Connecting To Collaboration

Host EPD

OK Cancel

Desktop: 1 object(s) selected

Desktop

Last Used Documents

SmartLists

sap_epd_c_acc_eu20 - SAP Business Suite

Welcome to sap_epd_c_acc_eu20!

or sign in with:

EPD common IdP
(azzblkcld.accounts400.ondemand)

PEI IdP

SAP

Copyright © 2021 SAP SE. All rights reserved.

Object Browser

Content Of Share CAD files with EPD

10000010124-SWA-000-00-conveyer

Connecting To Collaboration

A browser window has opened for login.
Please use the browser to log in to the collaboration service.

Reopen Browser Cancel

Desktop: 1 object(s) selected

Desktop

Last Used Documents

SmartLists

epd-acc-eu20-consumer: Log On x

epd-acc-eu20-consumer

Log On

E-Mail or User Name

Password

☐ Remember me

Log On

[Forgot password?](#)

SAP

Object Browser

Content Of Share CAD files with EPD

10000010124-SWA-000-00-conveyer

Connecting To Collaboration

A browser window has opened for login.
Please use the browser to log in to the collaboration service.

Reopen Browser Cancel

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
- CAD Examples
- Demo
 - 2018-10-25 DSAG AK PLM
 - 2019-06-25 CAD Partner Meeting
 - Archive IPD
 - Fein
 - Nespresso Demo
 - Share CAD files with EPD
 - 10000010124 SWA 00 conveyer
 - Shattered Viewing
 - Software Integration
- HHT
- Improvement Requests
- Object Types
- Standard Components

Working Directory [PAS/10000045558/000/00 toplevel 15.02.2021 16:31:39]

Object Browser

Content Of Share CAD files with EPD

10000010124-SWA-000-00-conveyer

drag&drop

1 Objects (Total 1 Objects)

Collaboration 1 object(s) selected

Collaborations

- MVO_Collaboration
- Shared with externals
 - Shared Product Data
 - conveyor
 - Creo Assembly
 - Creo test assembly
 - PLM OpenHouse
 - VDS primary

Desktop: 1 object(s) selected

Desktop

- Last Used Documents
- SmartLists
- Object Lists
- Personal Folder
- Public Folder
- CAD Examples
- Demo
 - 2018-10-25 DSAG AK PLM
 - 2019-06-25 CAD Partner Meeting
 - Archive IPD
 - Fein
 - Nespresso Demo
 - Share CAD files with EPD
 - 10000010124 SWA 00 conveyer
 - Shattered Viewing
 - Software Integration
- HHT
- Improvement Requests
- Object Types
- Standard Components
- Working Directory [PAS/10000045558/000/00 toplevel 15.02.2021 16:31:39]

Object Browser

Content Of Share CAD files with EPD

10000010124-SWA-000-00-conveyer

1 Objects (Total 1 Objects)

Collaboration: 1 object(s) selected

Collaborations

- MVO_Collaboration
- Shared with externals
 - Shared Product Data
 - conveyer
 - Import Into Working Directory
 - Delete Delete
 - New Folder
 - Refresh F5
 - Connect to Collaboration Service
 - Creo As
 - Creo te
 - PLM Op
 - VDS pri

Successfully connected to collaboration services

SAP Eng System

My Collaborations

epd-acc-eu20-consumer.epdacc.cfapps.eu20.hana.ondemand.com/cp.portal/site#...

SAP My Collaborations

Shared with externals

DFLT (DFLT)

Work Items (0) **Shared Documents** Shared Product Data(0) Reference Objects (0) Design Models (0)

☐		Name: 10000010126swp000.sldprt	Modified On: Mar 19, 2021	Modified By:
		Size: 87 KB	Actions:	
☐		Name: 10000010127swp000.sldprt	Modified On: Mar 19, 2021	Modified By:
		Size: 62 KB	Actions:	
☐		Name: export.xml	Modified On: Mar 19, 2021	Modified By:
		Size: 15 KB	Actions:	
☐		Name: readme.pdf	Modified On: Mar 19, 2021	Modified By:
		Size: 15 KB	Actions:	

Success

Share CAD files with EPD

0124-SWA
eyer

1 Object(s) selected

- Collaboration
- Shared with externals
- Shared Product Data
- conveyor**
- Creo Assembly
- Creo test assembly
- PLM OpenHouse
- VDS primary

QIY 002

Roadmap



Authoring Tool I... x

28 Road Map Items x 🔍

Products v

Processes v

Industries v

Focus Topics v

Q2 2019 - Latest 📅



Save

Q3 2020 7 Road Map Items



SAP Engineering Control Center 1.1 for SAP S/4HANA

^ Authoring Tool Integration

Change-record integration

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Continuous improvements through SAP Customer Connection in 2020

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Integration of Zuken E3.series and CR-8000

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Material production version integration

SAP Engineering Control Center 1.1 for SAP S/4HANA v

New APIs to enable customization

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Quick search functionality

Q4 2020 0 Road Map Items

Q1 2021 0 Road Map Items

Q2 2021 10 Road Map Items



SAP Engineering Control Center 1.1 for SAP S/4HANA +1

^ Authoring Tool Integration

Ability to check out from the CAD UI and keep the local, outdated file

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Ability to link local files to the document info record

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Availability on SAP ERP enhancement package 7

SAP Engineering Control Center 5.2 v

Calling of an RFC function module within a macro

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Checkout assistant

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Customize search user interfaces

Q3 2021 CURRENT 2 Road Map Items



SAP Engineering Control Center 1.1 for SAP S/4HANA

^ Authoring Tool Integration

Opening of subcomponents in partially loaded assemblies

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Saving of a snapshot of a stored CAD assembly

SAP Engineering Control Center 1.1 for SAP S/4HANA v

Q4 2021 1 Road Map Item



Future Release

^ Authoring Tool Integration

Ability to change record handling using an API

SAP S/4HANA v

Q1 2022 0 Road Map Items

Q2 2022 0 Road Map Items

Q3 2022 7 Road Map Items

Future Release

^ Authoring Tool Integration

Continuous improvements for SAP Engineering Control Center in 2022

SAP Engineering Control Center for SAP S/4HANA

Control using a URL handler

SAP Engineering Control Center for SAP S/4HANA

Copy customization across a three-tier landscape

SAP Engineering Control Center for SAP S/4HANA

Export of folder content including dependent drawings

SAP Engineering Control Center for SAP S/4HANA

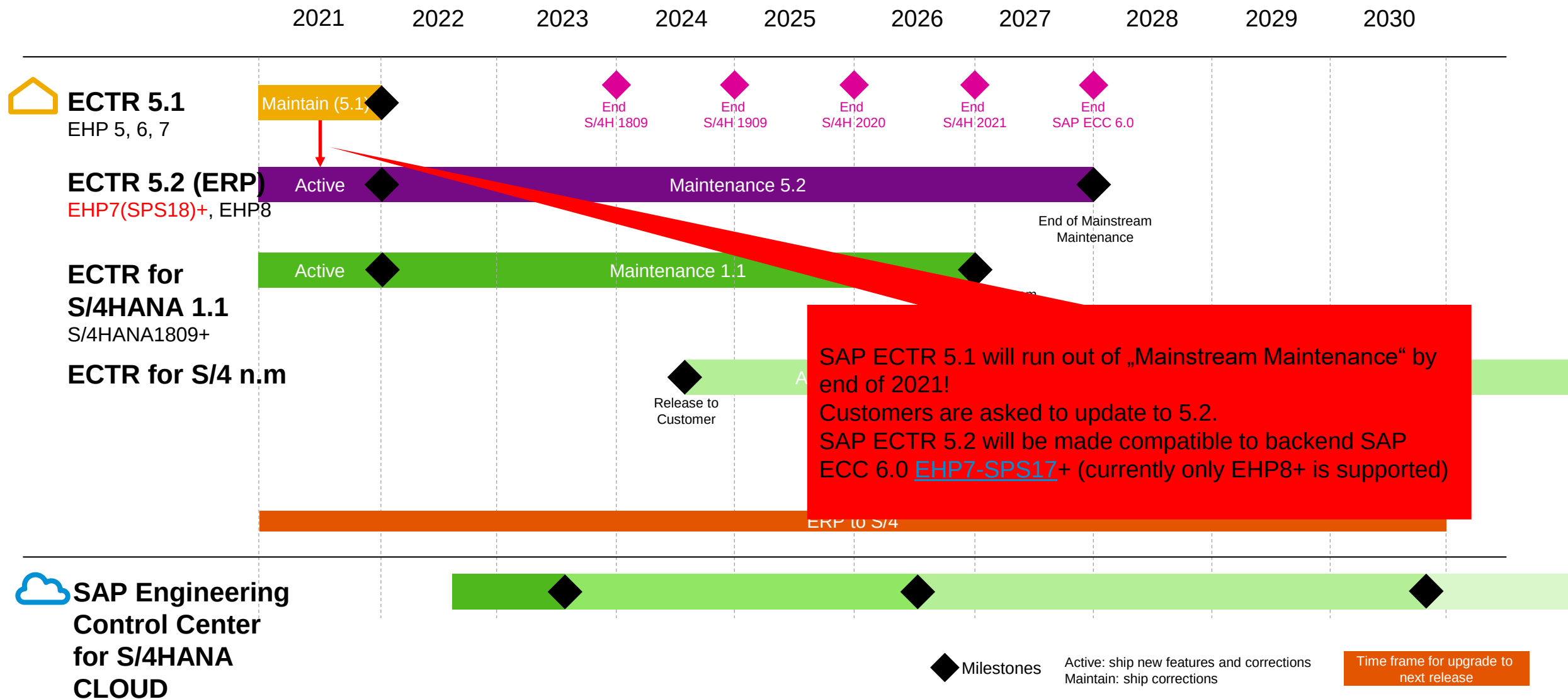
Integrate CAD design into SAP S/4HANA Cloud

SAP S/4HANA Cloud

Link requirements in the engineering

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Availability on SAP ERP EHP7



Where to find more



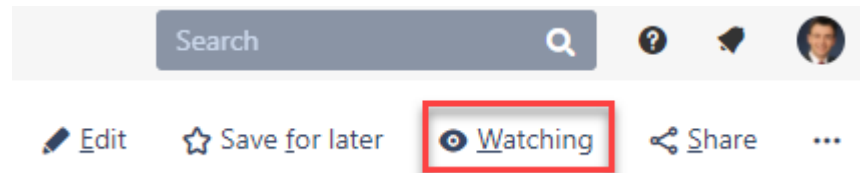
Where to find more

Improvement requests:

- <https://influence.sap.com/sap/ino/#/campaign/770/>

SCN – SAP Collaboration Network

- What's New: <https://wiki.scn.sap.com/wiki/x/p4AOHw>
- “How-To Guides on SCN: <https://wiki.scn.sap.com/wiki/x/yoMcF> (more than 100 HowTos)
- “Watching”: don't miss any news



Last but not least: Google! e.g. „[SAP ECTR dtype in a nutshell](#)“

Thanks.



Gerhard Himmelsbach

Product Owner SAP ECTR

gerhard.himmelsbach@sap.com