COMOS Version 10.6

What‘s new?

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Agenda

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02 COMOS Infrastructure

03 COMOS Process

04 COMOS DDMS

05 COMOS Interoperability

06 COMOS EI&C

07 COMOS Automation

08 COMOS Operations

Contacts

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COMOS

Overview Software Categories

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Overview Software Categories

Bugfixing
156 Customer Related Bugs Fixed

Modernization

Reduced Technical Dept
software refactoring, test automation

Updated 3rd Party Software

Usage of New 3rd Party Components

Visual Basic 6 Migration

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COMOS Infrastructure

COMOS Kernel, Platform, Report, Document Viewer, COMOS Web, COMOS Services

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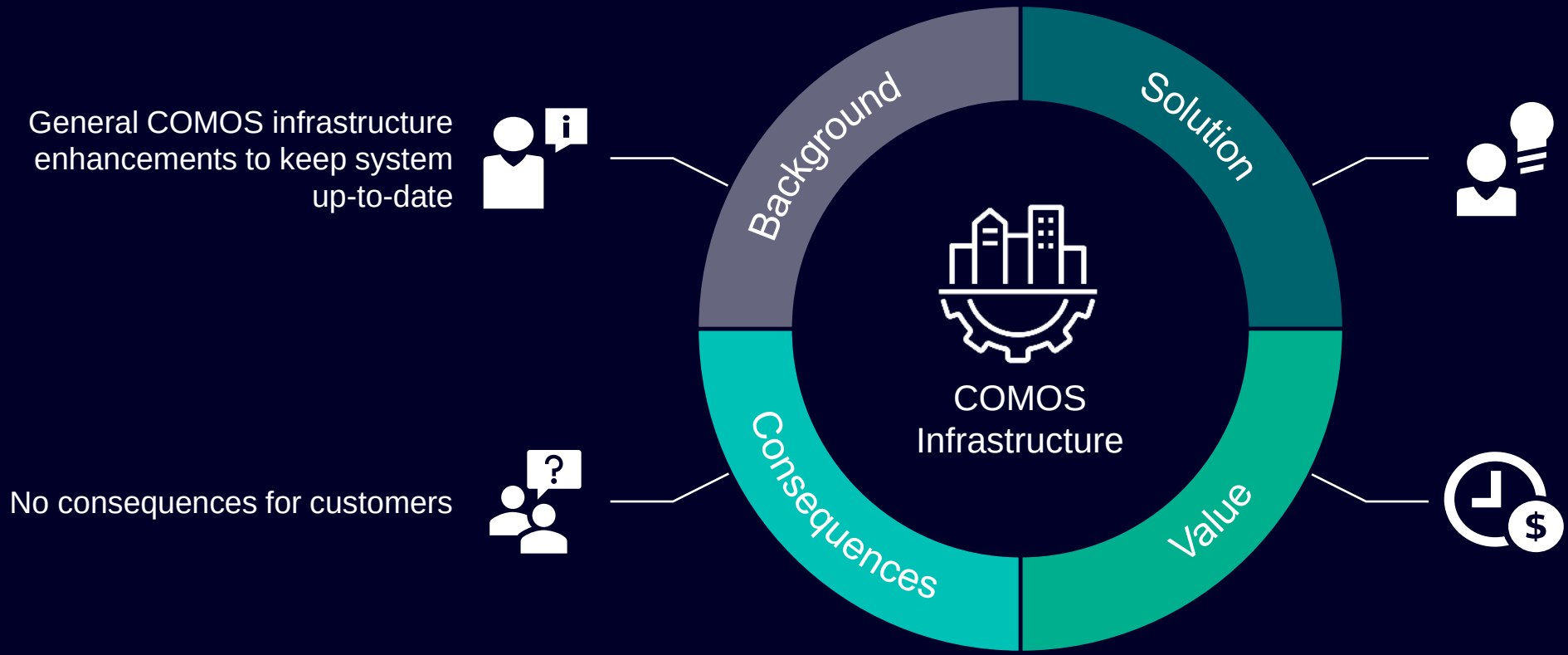
COMOS Application
General Infrastructure Improvements

General COMOS infrastructure enhancements to keep system up-to-date

No consequences for customers



1. Support of "SALT Cloud" License Server for cloud use cases
2. Support of Windows Server 2025

1. Additional License use cases like remote licensing or cloud now possible with the new SALT license server
2. Keeping COMOS up-to-date with current Windows systems

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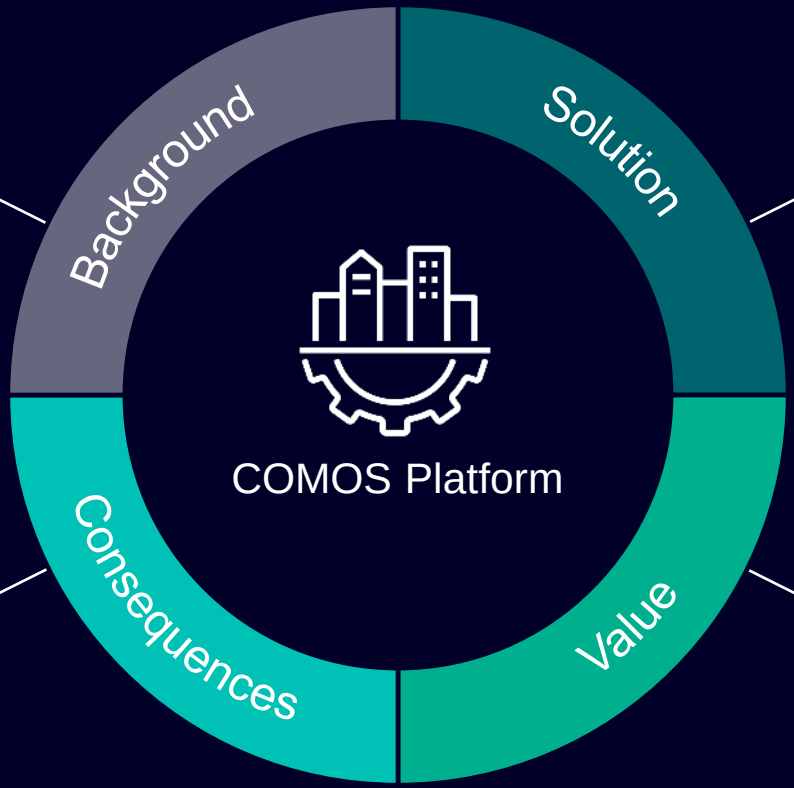
COMOS Application
General Platform Improvements

Additional enhancements on existing features that are used in different use cases

No consequences for customers



1. Support of PDF/A 2b and 4e/f Specification in PDF Export
2. Improved Performance of Search Manager for complex search use cases
3. Filtering possibilities for COMOS Notifications

1. Improved Interoperability with other systems that are consuming PDFs (like SAP)
2. Faster search improves the overall speed of the user to execute this daily tasks
3. Reduce network load in customer environment, improve performance and reliability

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COMOS Application
Security

We are continuously working on improving the out-of-the-box Security of COMOS

COMOS Administrators must be aware of the change and review the white or blacklist for customer use cases

1. The file handling in COMOS is now based on a black- or whitelist of file extensions.
2. Improved prevention of unintended script execution for imports and editing of an object script property

Improved security

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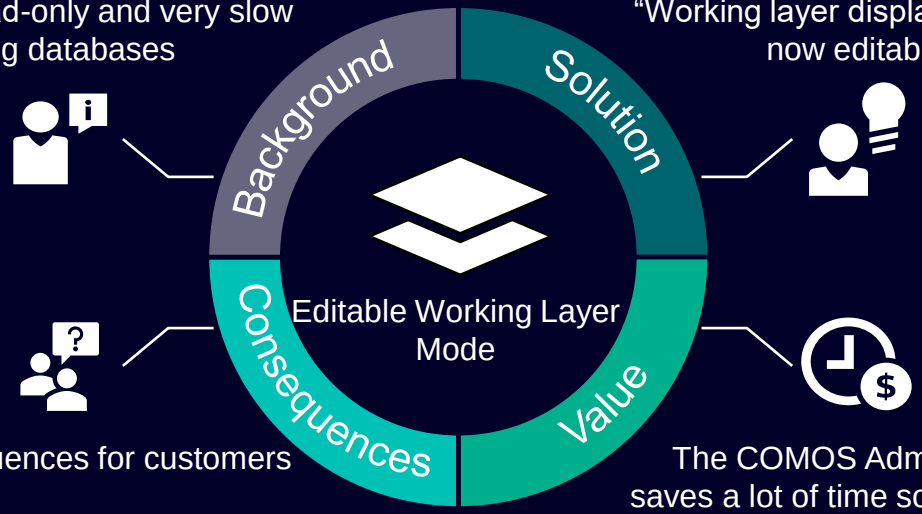
COMOS Desktop Application
Working layer display mode

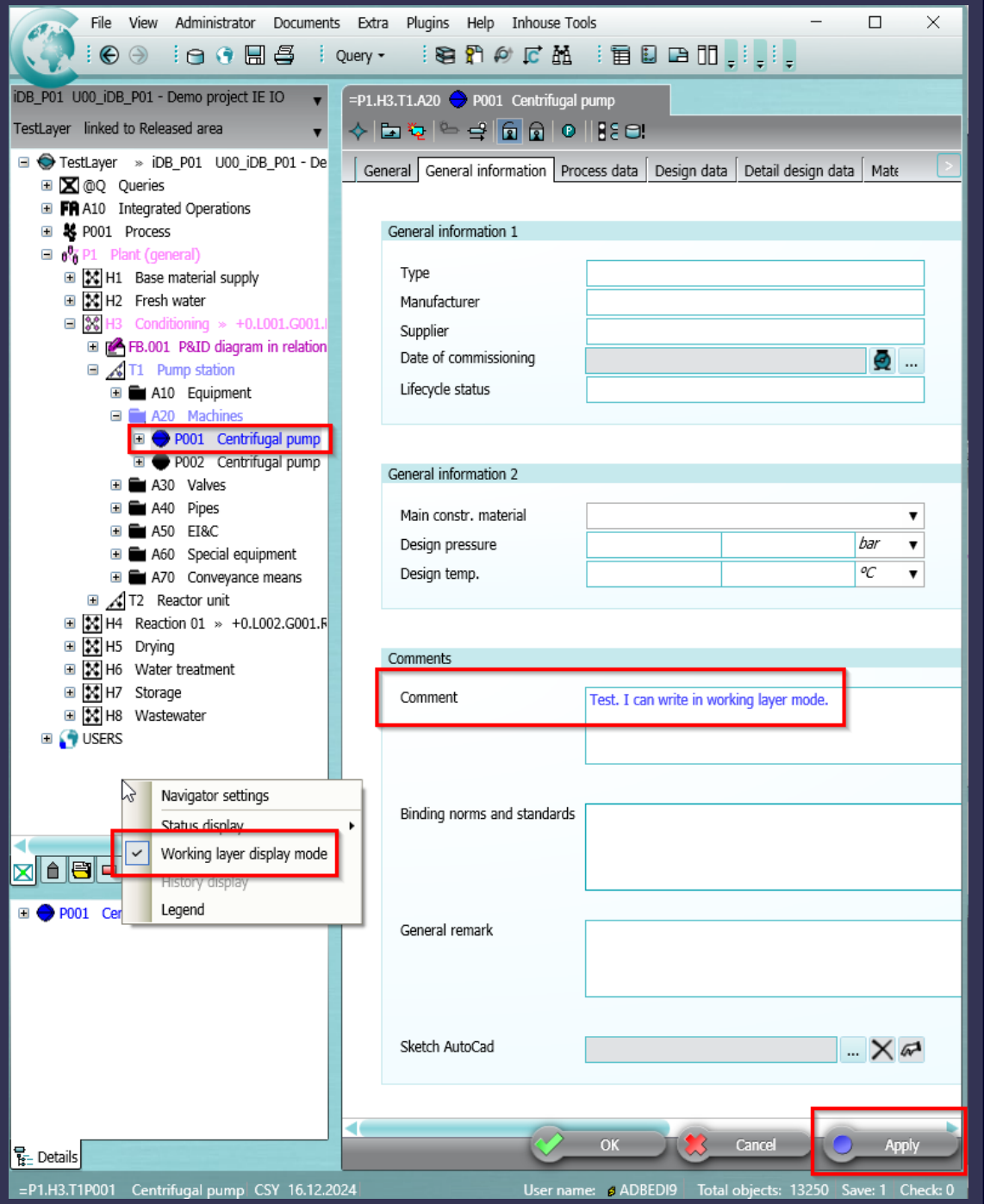
The "Working layer display mode" is read-only and very slow in big databases



"Working layer display mode" is now editable

No consequences for customers

The COMOS Administrator saves a lot of time solving merge conflicts in working layers especially in big databases where a mode switch can take considerable time



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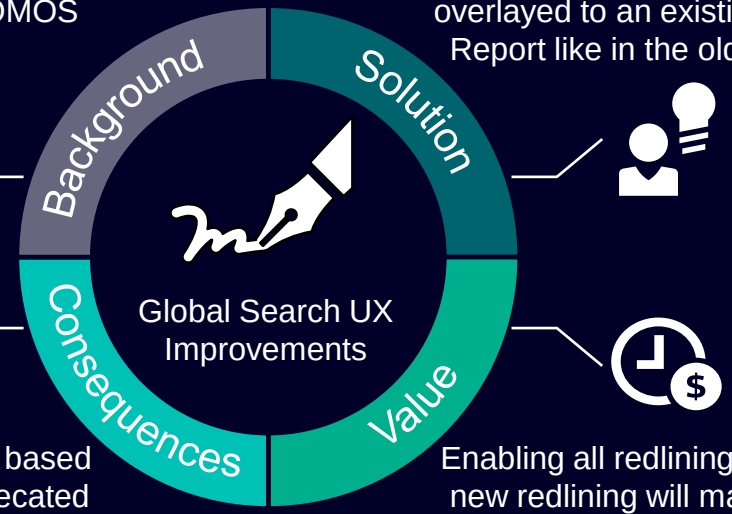
COMOS Report
Redlining on COMOS Reports

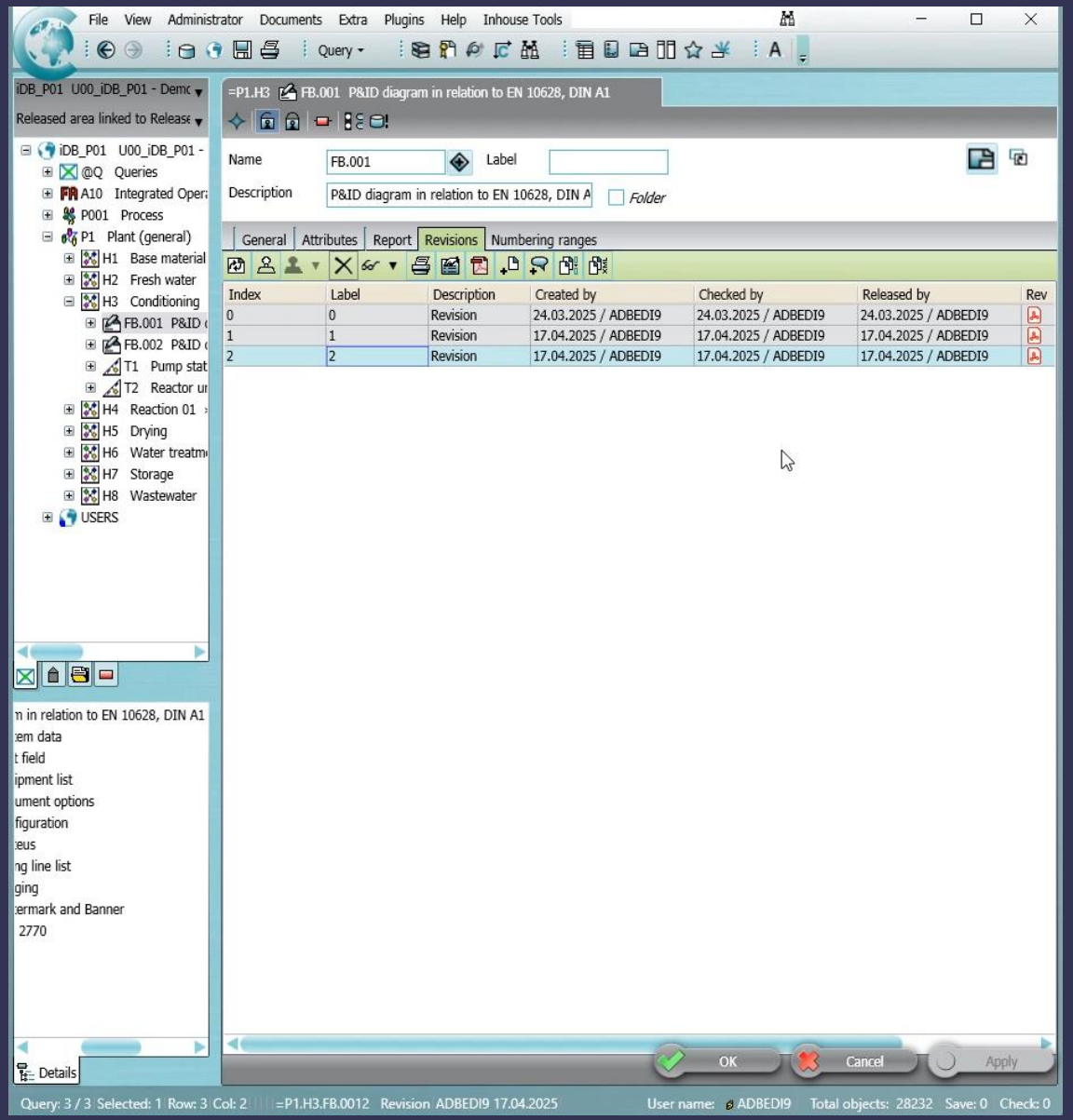
Display Redlining on COMOS Reports

New Redlining can also be overlayed to an existing COMOS Report like in the old Redlining



In future the old redlining based on CRP files will be deprecated

Enabling all redlining features in new redlining will make the old redlining obsolete



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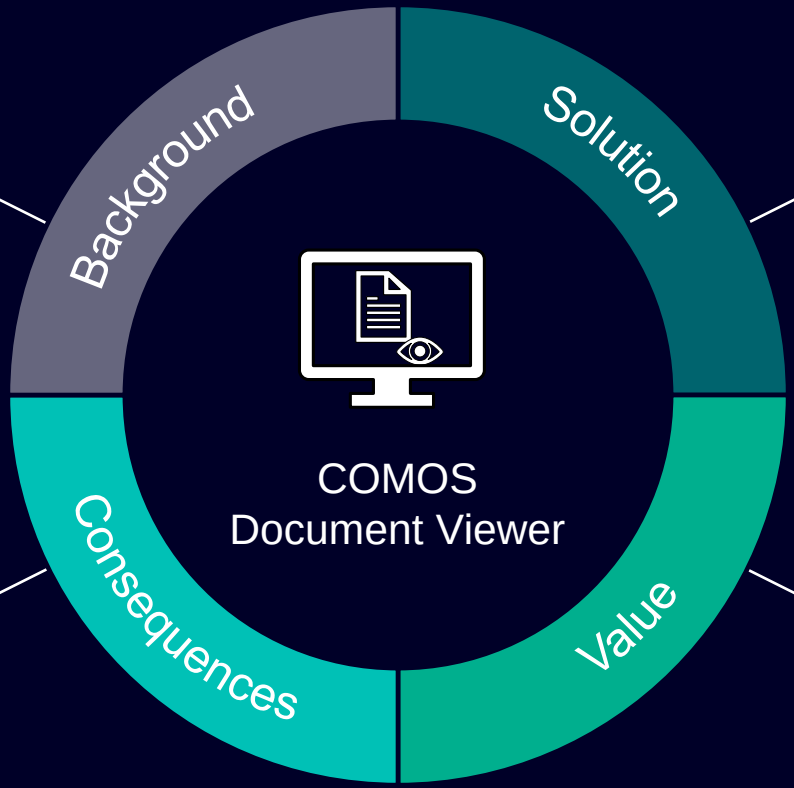
COMOS Document Viewer
General Improvements

The COMOS Document Viewer is used in COMOS Desktop and Web to view diverse native document formats embedded



1. Now Tiff Format is supported
2. DWG : Flip Color is now supported
3. COMOS Reports : Added a refresh button to force a reevaluation

No consequences for customers

1. Tiff is often used for revisioning beside PDF
2. Allows the use to switch color themes as sometimes a white or black background can make the diagram more readable
3. If our caching not updating correctly the user can now force a refresh to always get up-to-date COMOS Reports displayed in Web

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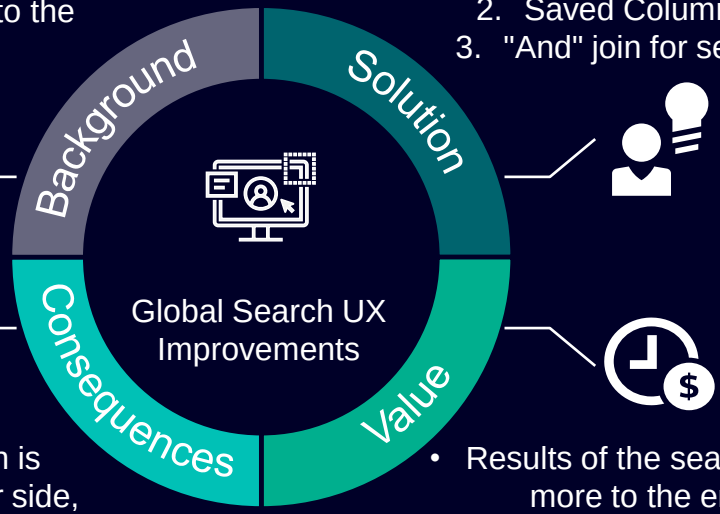
COMOS Web
Search Improvements

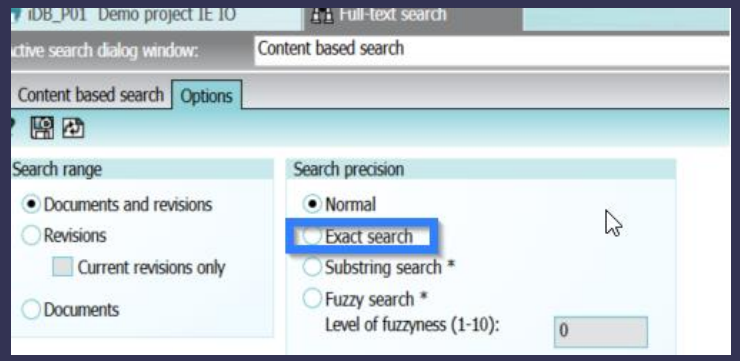
End users complaining that search results not fitting to the expectations

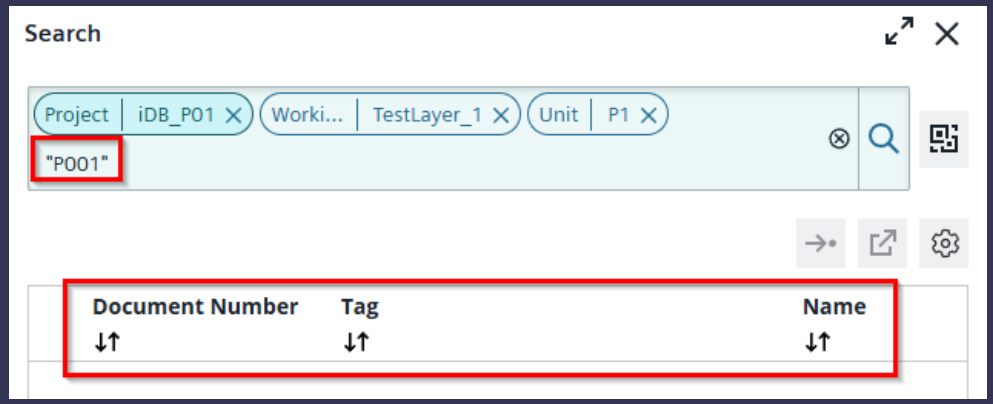


If COMOS Web search is documented on customer side, they must check if the new behavior fits the customer documentation

1. Exact Search
2. Saved Column Settings
3. "And" join for search filters

- Results of the search are now more to the end user expectation
- Faster navigation to points of interest of current user





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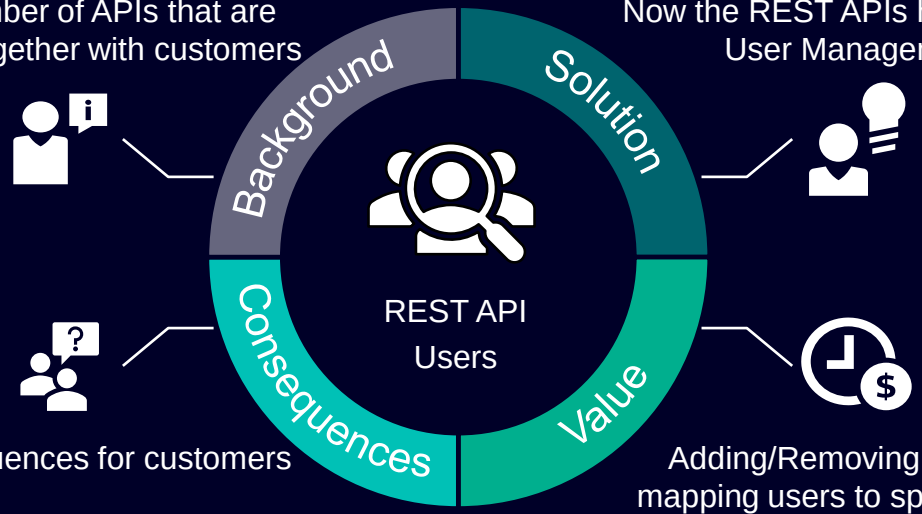
COMOS Web
Public REST API : User Management

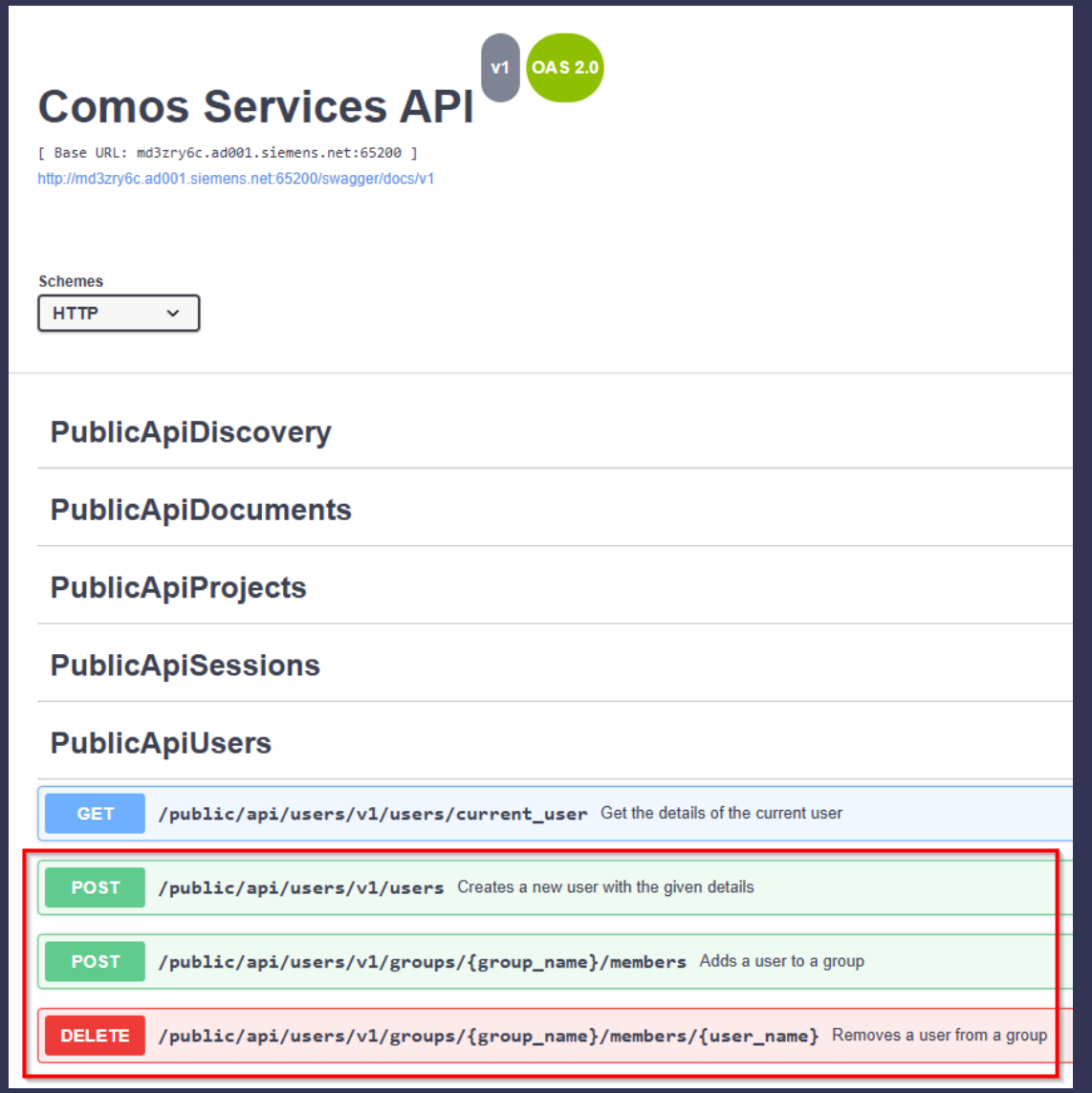
Public REST API for COMOS automation use cases has a limited number of APIs that are enhanced together with customers



Now the REST APIs has APIs for User Management

No consequences for customers

Adding/Removing users or mapping users to specific roles or user groups automatically with an API can enable specific customer use cases that makes the onboarding of user faster and more reliable



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COMOS Process

COMOS P&ID

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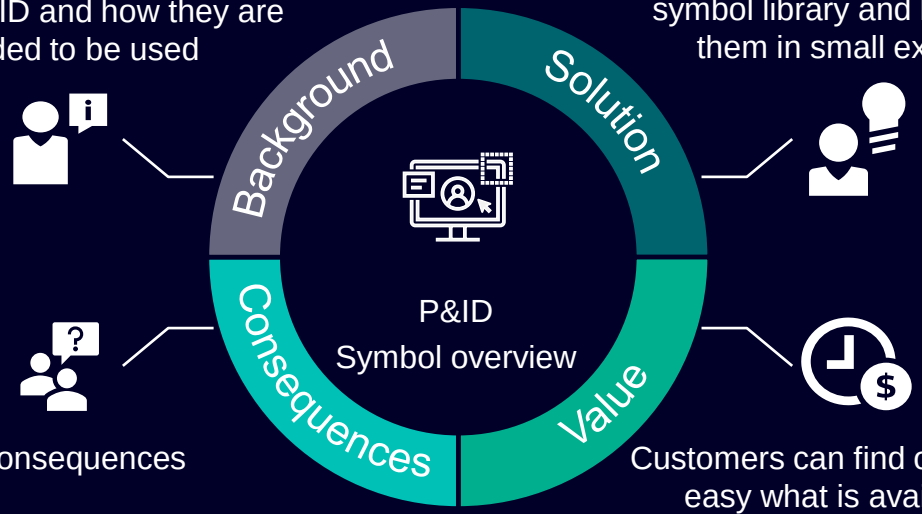
COMOS Process
Symbol overview P&IDs

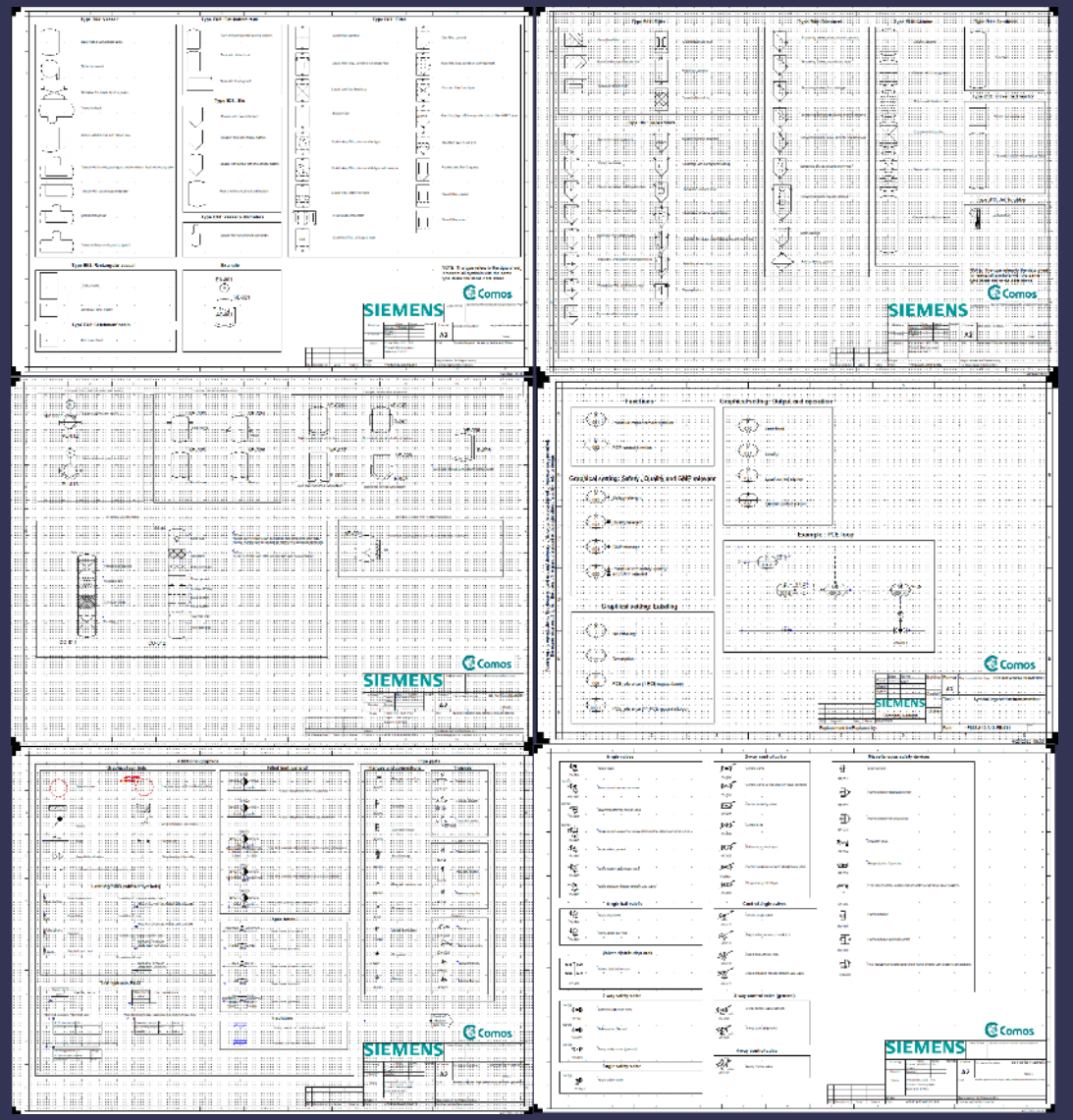
It is not easy and takes time to find out which symbols can be used on P&ID and how they are intended to be used



No consequences

12 symbol overview P&IDs were added to the example project iDB_P02 and show the complete symbol library and how to use them in small examples

Customers can find out fast and easy what is available in COMOS P&ID and can understand how the symbols are intended to be used



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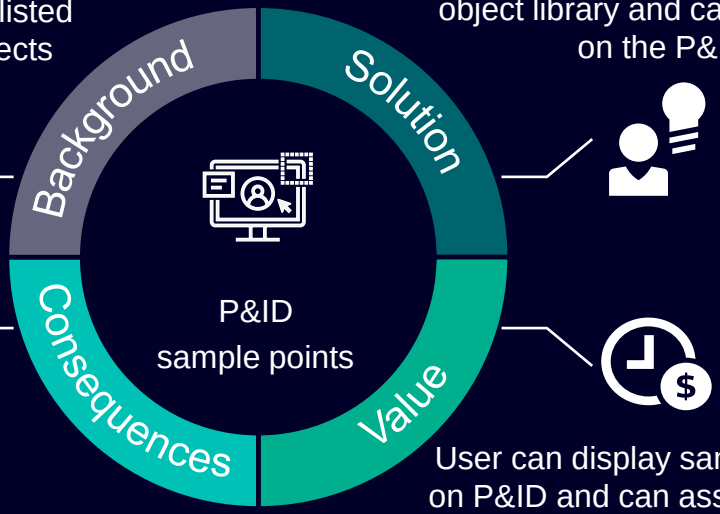
COMOS Process
Sample points

Sample points need to be visualized on P&IDs and listed separately in many projects

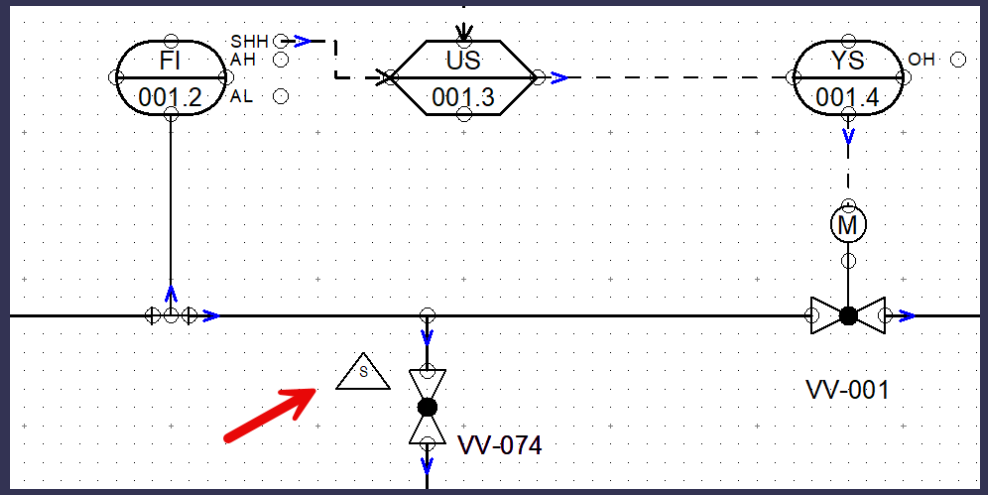
A sample point was added to the object library and can be placed on the P&ID



No consequences

User can display sample points on P&ID and can assign sample valves.

User can generate lists of sample points including process data



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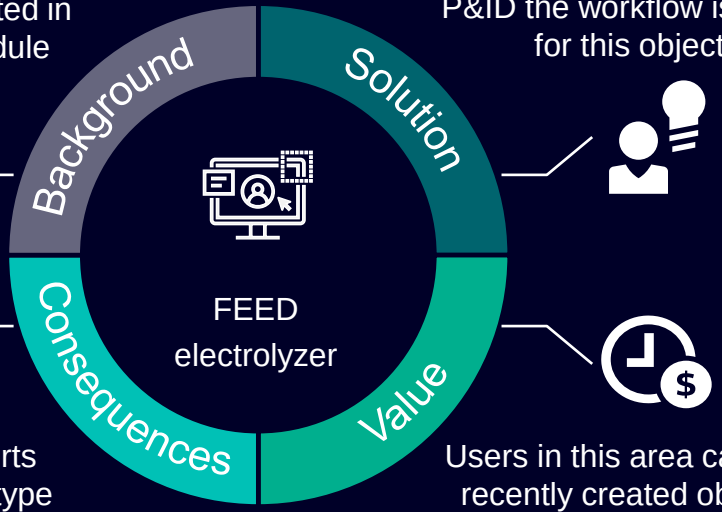
COMOS Process
FEED electrolyzer

Object type electrolyzer was not yet designed and supported in the COMOS FEED module

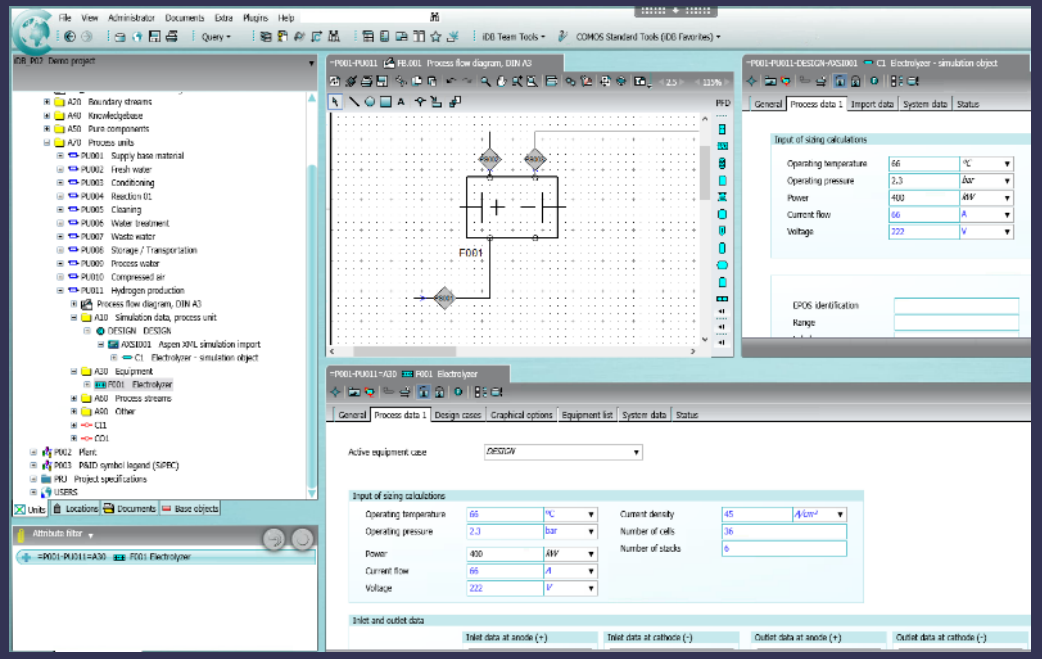


Electrolyzer added: From simulation import over PFD to P&ID the workflow is supported for this object type

Not all simulation imports support the new object type

Users in this area can use the recently created object type

It was created to support use cases in the area of hydrogen production using gPROMS and COMOS



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COMOS DDMS

COMOS Data and Document Management

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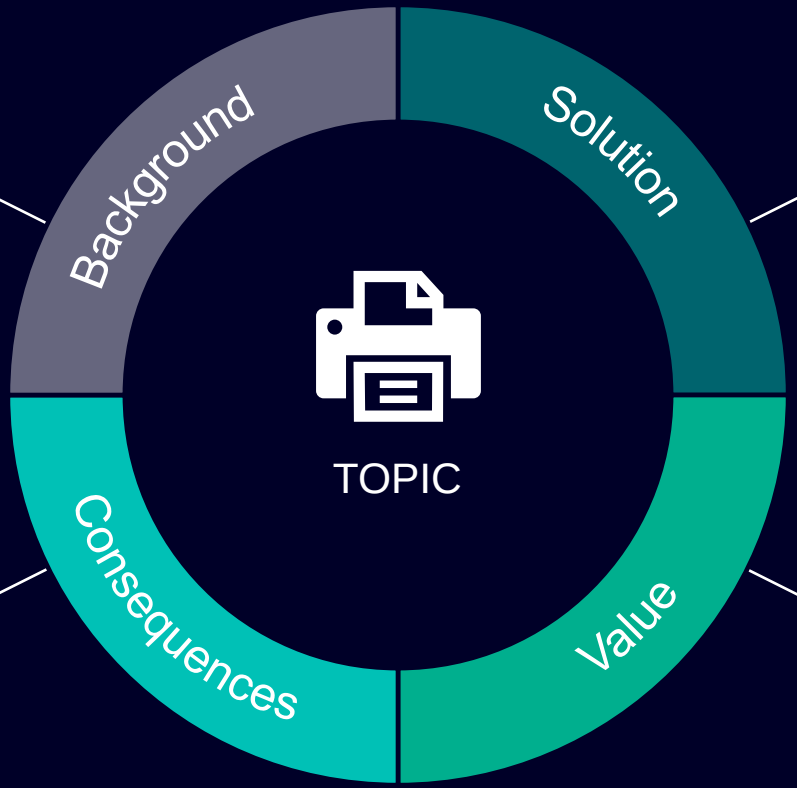
DDMS
SharePoint support for Document Checkout

Challenges in sharing document with external collaborators



- Check-out documents to SharePoint
- Document metadata sync to and from SharePoint

- User should have active login session
- Supported SharePoint should have MS-Graph APIs enabled

- Important capability to share documents with external partners
- User is able to edit MS-office documents in SP
- Potential to leverage additional capabilities of SP

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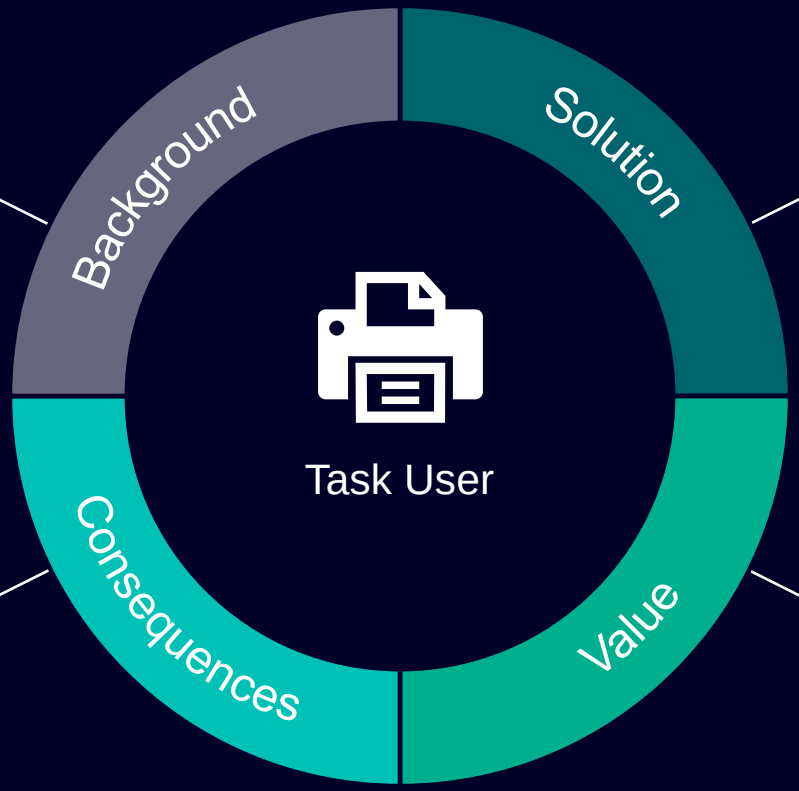
DDMS Standardisation

Change Task User + Segregation of duties

- It was not possible to change assigned user on task once workflow starts
- No segregation of users based on assigned roles, possible to select any user



Change the assigned user on the Task Object using Set Reference option
Validation added to assign only users which are defined for the role

- Users and Roles assignment has been done

- Improved validation to prevent errors once WF is completed
- Flexibility to adapt based on resource availability

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COMOS Interoperability

Plant3D Engineering Interface

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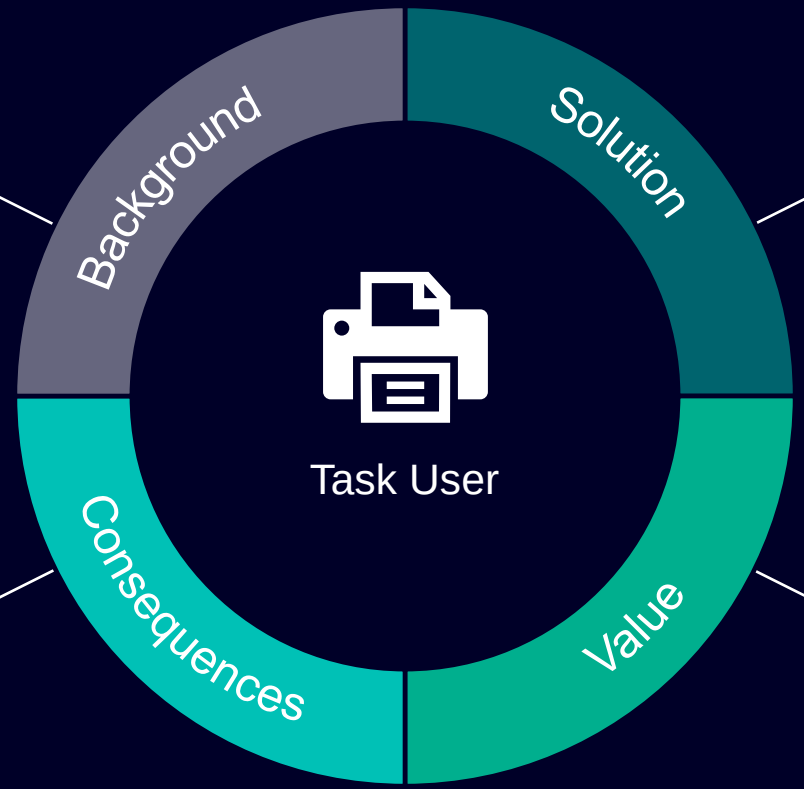
COMOS Interoperability
gPROMS to COMOS Interface

- gPROMS delivers simulation data that is required in COMOS FEED. Up to now it is not possible to exchange data between the products.

- The Standardized Interoperability solution (SIS) must be installed.



Solution links gPROMS to COMOS to further process simulation results in downstream engineering processes

Simulation and engineering can be seamlessly integrated by shared PA SW portfolio, SIS based solution maintains standard interface functionality

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COMOS EI&C

COMOS EI&C

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COMOS EI&C

General Usability and Enhancements

Stabilize the software, reduce complexity and increase usability in order to achieve higher customer satisfaction.

- Handling of the reference bracket
- Copy and paste of documents
- Loop recalculation

These solutions optimize the electrical engineer’s workflow and enable more efficient project execution.

- Improved usability and user guidance
- Simplified handling

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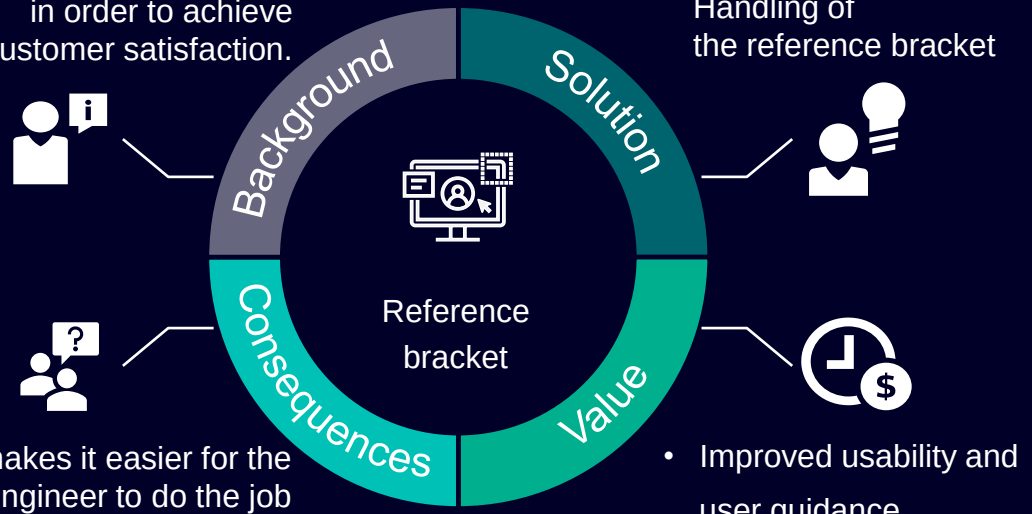
COMOS EI&C
General Usability and Enhancements

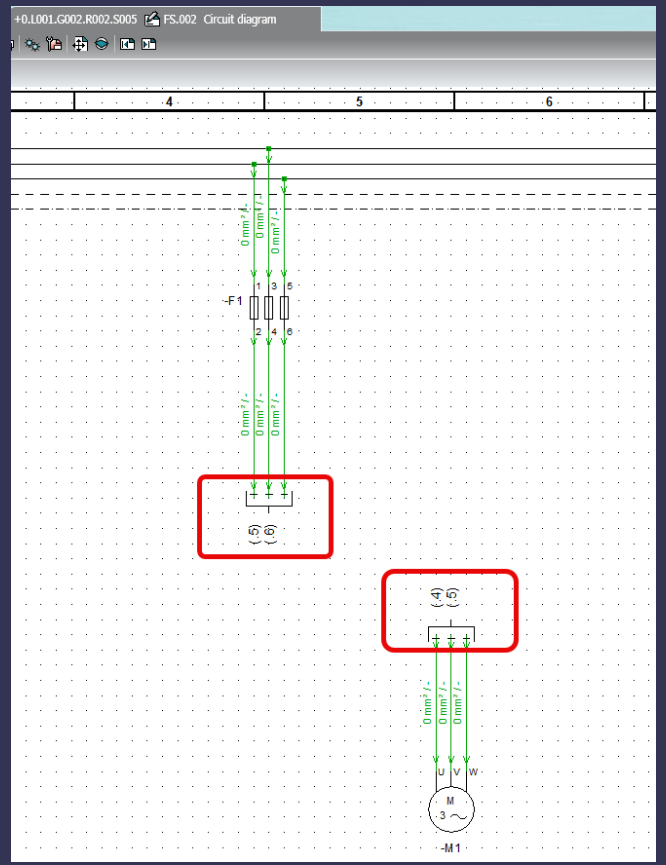
Stabilize the software, reduce complexity and increase usability in order to achieve higher customer satisfaction.



Handling of the reference bracket

This makes it easier for the electrical engineer to do the job

- Improved usability and user guidance
- Simplified handling



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COMOS EI&C
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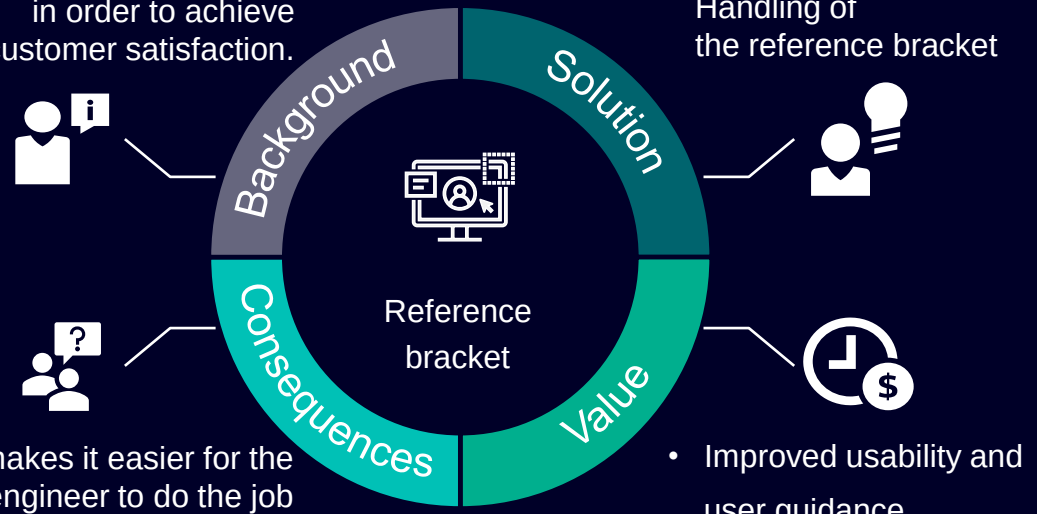

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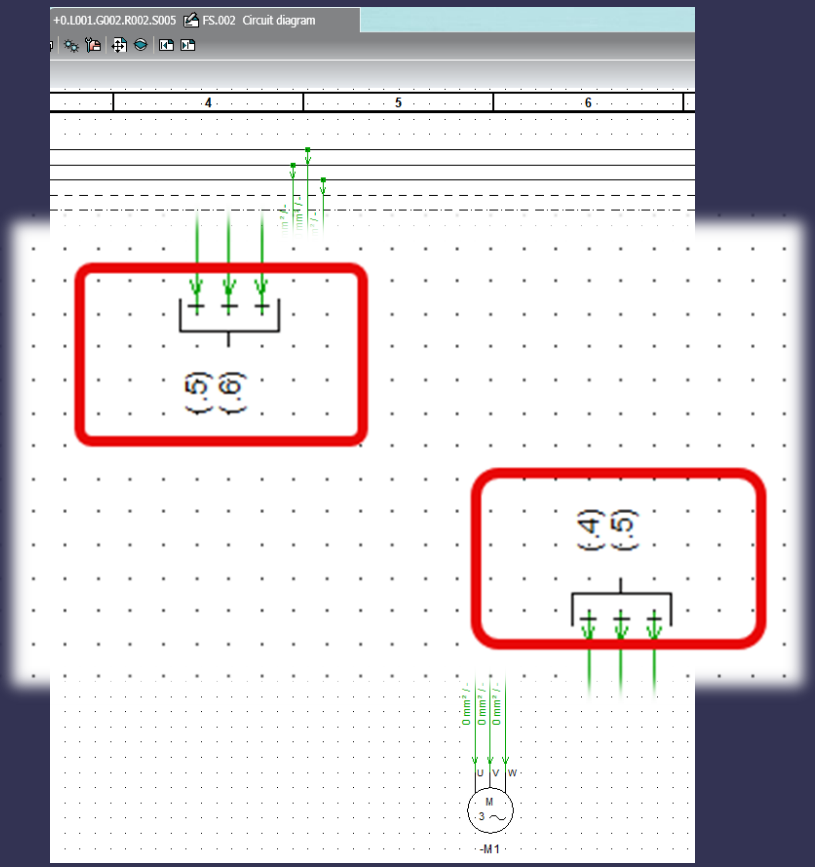

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COMOS EI&C
General Usability and Enhancements

Stabilize the software, reduce complexity and increase usability in order to achieve higher customer satisfaction.

Copy and paste of documents

This makes it easier for the electrical engineer to do the job

- Improved usability and user guidance
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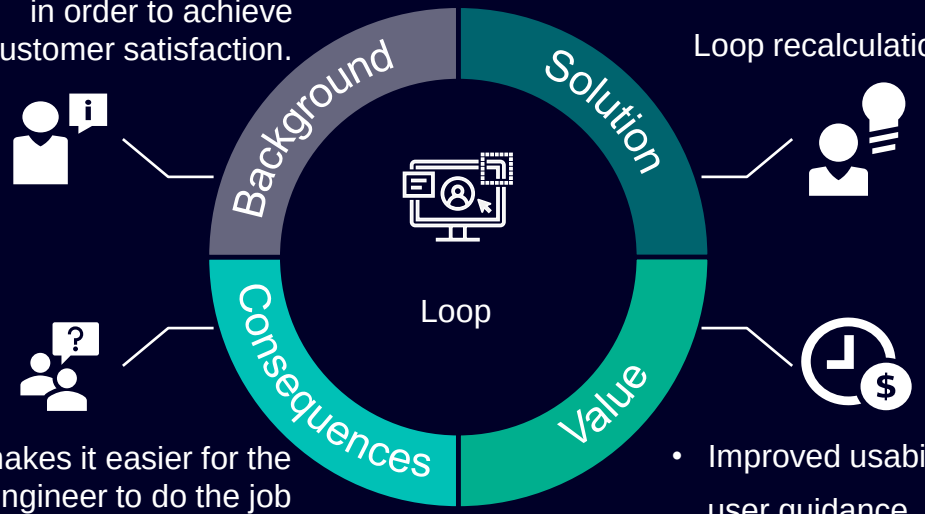
COMOS EI&C
General Usability and Enhancements

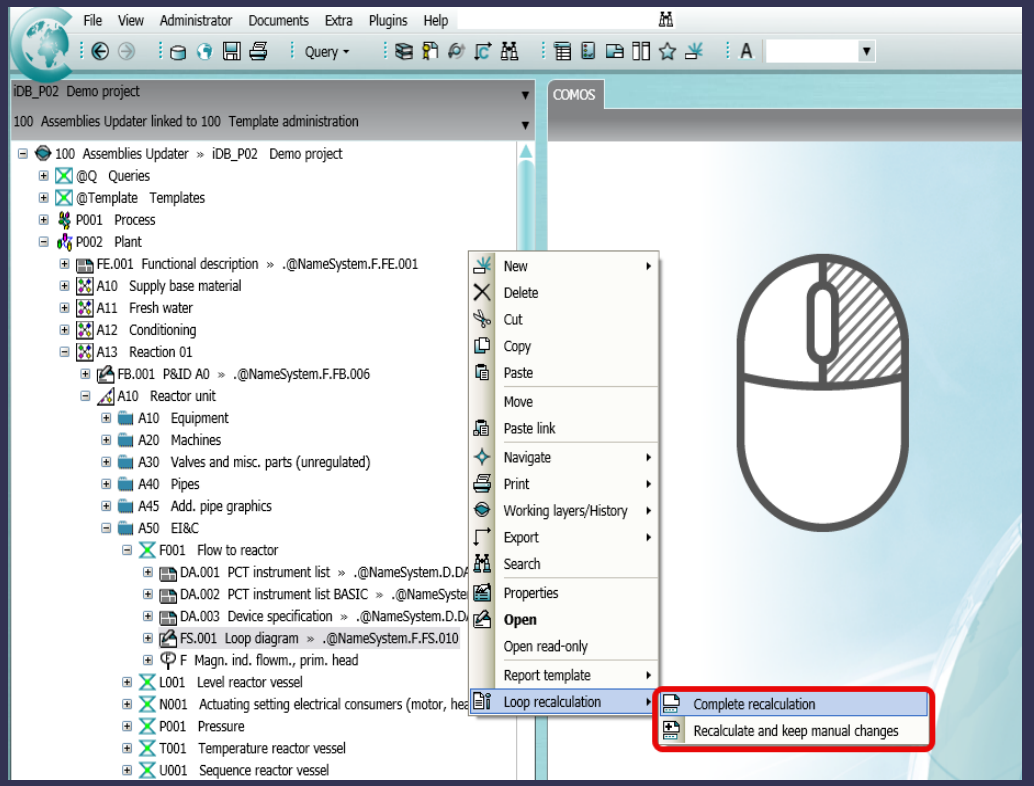
Stabilize the software, reduce complexity and increase usability in order to achieve higher customer satisfaction.



This makes it easier for the electrical engineer to do the job

Loop recalculation

- Improved usability and user guidance
- Simplified handling



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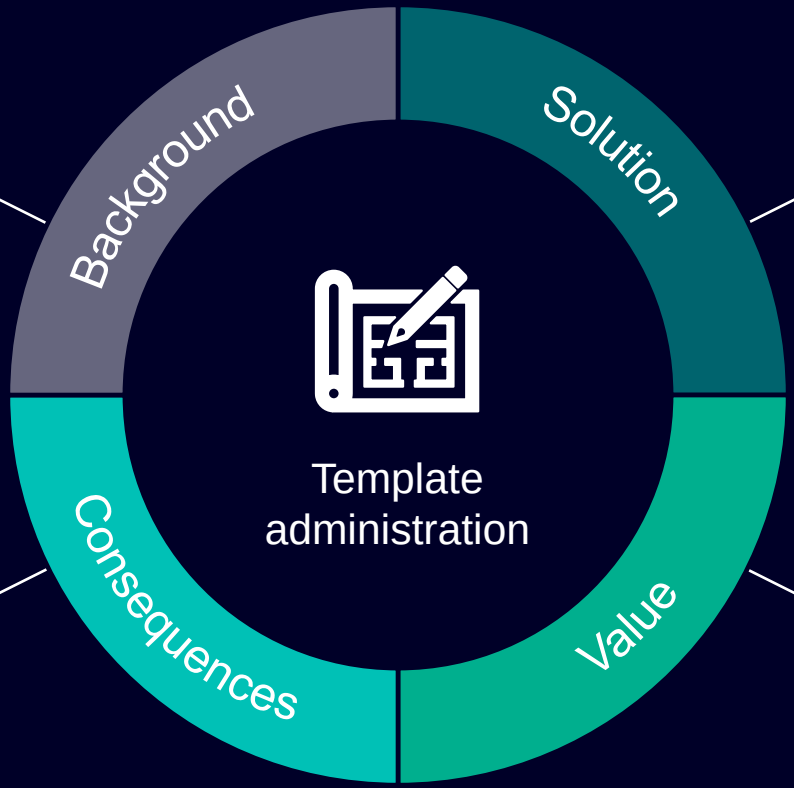
COMOS EI&C

Template administration

With the "Template Administrator" you can manage changes and versions of templates.

The user can make all changes in the context of the “Template Administration" without using different UI s.



Start the UI via the right mouse button on the template object. Direct processing of the templates via the UI.

Improved usability

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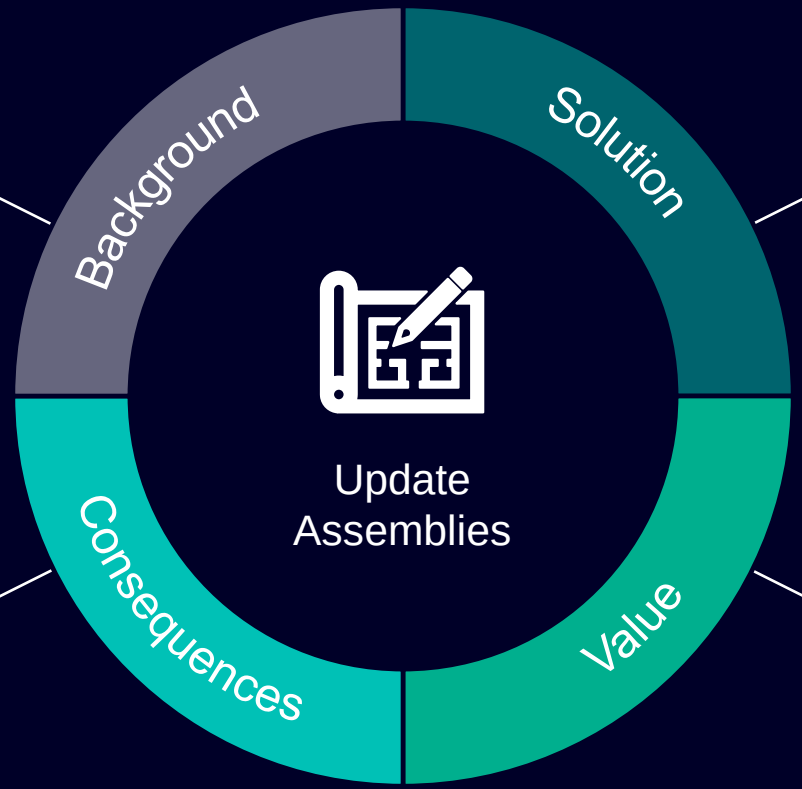
COMOS EI&C

Update Assemblies

The " Updater Assemblies" Tool offers you an overview of the usage of the templates in the project and can take over the updated version.

It is easier to recognize the possible change through the new template version



- Open the UI via the right mouse button on the template object.
- Direct overview of the used templates and the version
- Enhancement of the update options

Improved usability

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COMOS Automation

COMOS Automation

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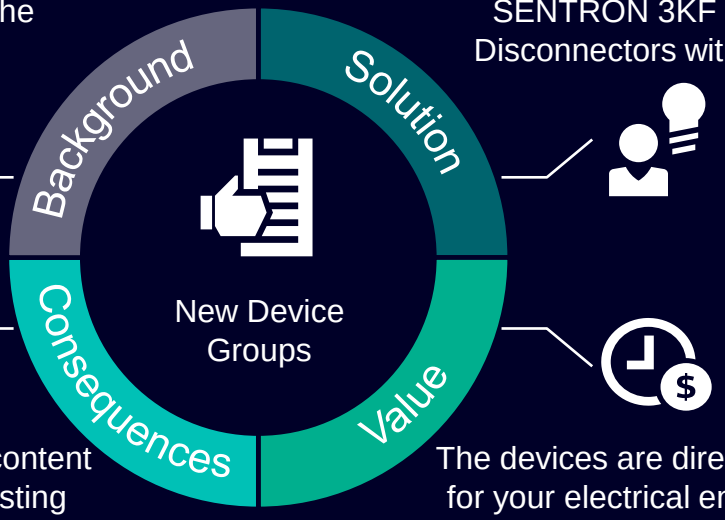
COMOS Automation
Manufacturer Device Content Library

The manufacturer device content is an own licensed database which covers most of the SIEMENS devices

New SIEMENS Device groups are added to the manufacturer device content: SENTRON 3KF Switch Disconnectors with Fuses



The manufacturer device content can be added to your existing database by using the iDB Updateability functionality

The devices are directly usable for your electrical engineering

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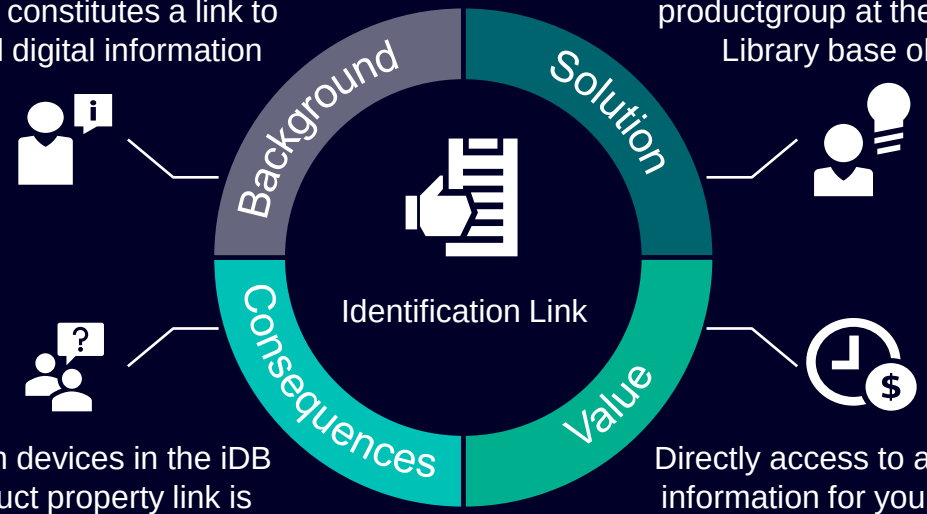
COMOS Automation
Identification Link (ID Link)

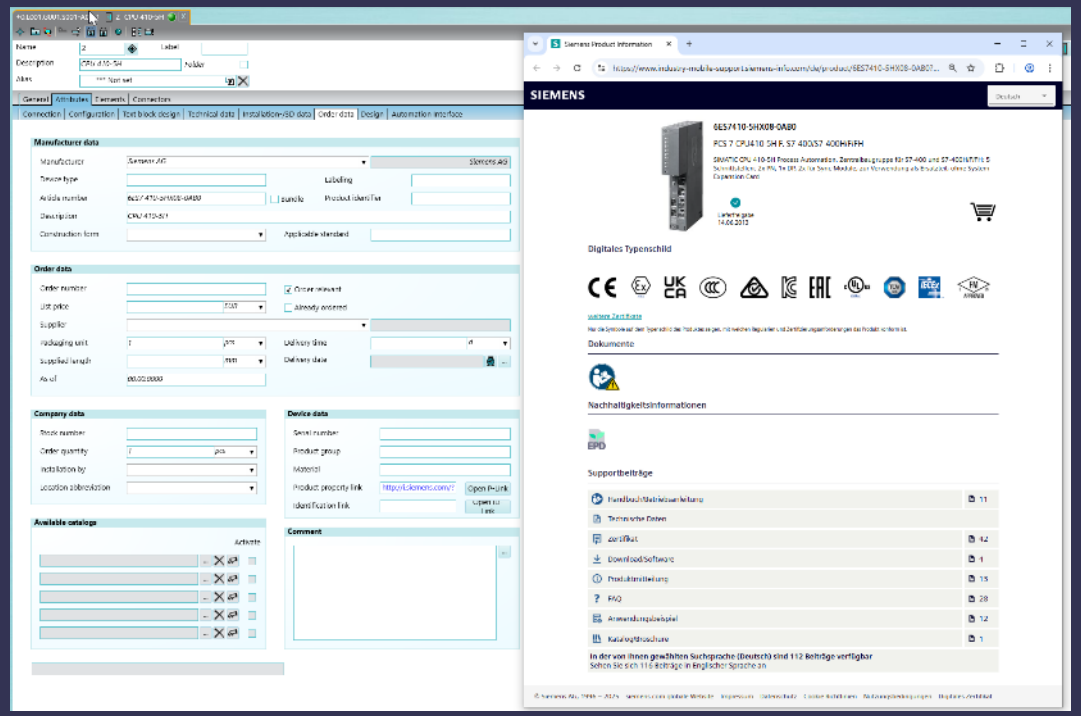
Identification link according to IEC 61406-1 is a unique identification of physical objects which also constitutes a link to its related digital information

ID link can be entered in your database. Furthermore a Product property link is introduced which can be prefilled with a link to the related digital information of a productgroup at the COMOS Library base object.



For certain devices in the iDB the Product property link is already filled up and ready for use.
Users can also enter the ID link for their devices.

Directly access to all relevant information for your different devices



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COMOS Operations

COMOS MRO and Mobile Worker

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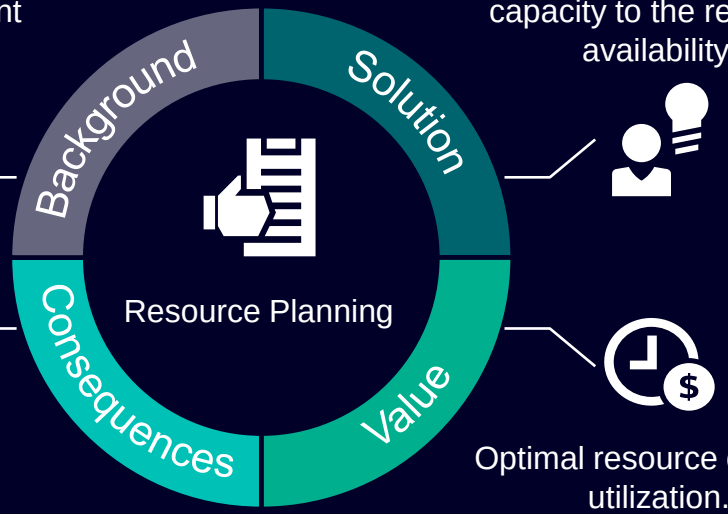
COMOS Operations
Comos MRO Resource Planning

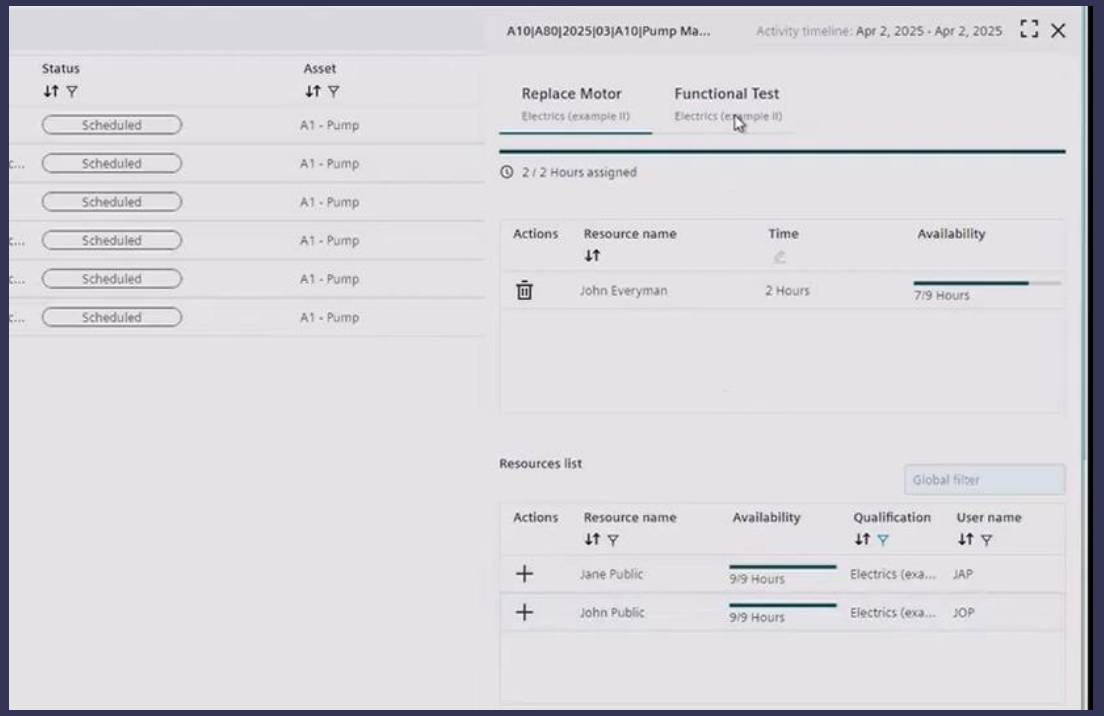
A good resource planning is crucial for the efficient operation.

The new Resource Planning application matches qualification requirements and required time capacity to the resource availability.



Increased maintenance execution quality.
Time saving and cost reduction during the operation.
Flexibility by unplanned absences.

Optimal resource capacity utilization.
Strategic skill utilization.
Easy deputy management.



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COMOS
Product Owners

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SIEMENS

Product Owners with Area of Responsibility

Dirk Beilschmidt

COMOS Platform Owner | Infrastructure

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- COMOS Main Application
- COMOS Platform
  (Search as a Service, Workflow Engine, Task Management Service, Notification Service, COMOS Web Services Infrastructure, etc.)
- Rest API
  (Public API connectors, Public Web API, Mobile Worker API, etc.)
- COMOS Web (Web Applications, Web User and Role, etc.)
- COMOS Object Model
- COMOS internal data exchange
- (NOXIE, Working Layers, DB Sync, etc.)
- Query and Search
- Event and Script Handling
- Data Administration & Tools (Updatability, Support Database etc.)
- Licensing
- Identify- and Access Management
  (Net Login, Access Control, Object Rights, etc.)
- Desktop UI (framework, styles, controls, navigators, etc.)
- Report (Template Designer, Symbol Designer, AutoCAD Rendering, PDF-Rendering, etc.)
- Smart Editor
  (Document Viewer, Mark Up, Redlining, Annotations, etc.)
- Printing
- Modular Report
- UTS
- Schematic Viewing and Hot Spotting

Rainer Rommelfanger

COMOS Product Owner | Interoperability

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Standardized Interoperability Solution (SIS):

- Transformation of Legacy Interfaces / Imports to SIS
- Implementation of New Interfaces / Imports Based on SIS

Legacy Interfaces / Imports, except of E3D and Plant3D, are in responsibility of Product Owner Interoperability after transformation.

- COMOS X Interoperability
- Interactive interfaces
  (E3D, Plant3D, Bentley OPM, COMOS WalkInside)
- FEED interfaces/imports
  (Pro/II, HTRI, EDR, Aspen++, UniSim, gPROMS)
- P&ID interfaces/imports
  (Proteus, SP PID, Conval, DWG)
- Eclass
  (General, Cadenas, AAS)
- SAP interface
- Teamcenter interface
- SIMIT import
- Internal interfaces
  (SimToPFD, PFDToPID)
- New COMOS interfaces

Andre Lauer

COMOS Product Owner | Electrical

andre.lauer@siemens.com

- COMOS Electrical
- COMOS I&C
- COMOS Fluidics
- COMOS Logical
- COMOS Modularized Engineering
- COMOS MEWeb (Modularized Engineering Web Configurator)

- Engineering Task (eBlock)
- Cabinet

- COMOS-2-COMOS Interface (DOXIE)
- DOXIE Tools (cDB / iDB Migration)

- Standardized Content for Electrical Engineering

- Support "Automation" for Modular Symbols (GSDLL)

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Product Owners with Area of Responsibility

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- Competence Center for COMOS Objects (C3O) for Manufacturer Devices
- GenericSymbol.dll (GSDLL) Configuring Symbols Instead of Drawings
- Modular Devices for Electrical and Automation
- Standardized Content and Workflows for Automation Engineering
- Organizational Interface to Plant Automation Accelerator (PAA)
- cDevice Change

Michael List
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Felix Schumacher
COMOS Product Owner | Process
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- P&ID
- FEED
- Isometrics
- PipeSpec Manager
- Pipe Spec Designer
- SIPEC (Standardized content for process engineering)
- iDB tooling for engineering (i.e., Traversal Toolbox, ATT-Tab Tool)

KP Singh
COMOS Product Owner | DDMS
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- DDMS Core
- DDMS Web Services
- Revisions
- Test management
- VDI2770 (Industry Standard for Technical Documentation)
- eStamp
- eSignature
- TeamCenter Interface (Legacy)

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Product Owners with Area of Responsibility

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COMOS Product Owner | Mobile Worker
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- Mobile Worker Interface to COMOS
- Content and Functions on Mobile Worker Side
- Content and Functions on COMOS Database Side
- COMOS Mobile Worker Lite
- Coordination with Product-Partner

Anna Lasina
COMOS Product Owner | COMOS MRO
anna.lasina@siemens.com

- COMOS MRO Plugins
- COMOS WebMRO
- MRO Related Core Functions and Modules in COMOS (e.g. Chemserv.dll)
- Standardized MRO-Related Content and Workflows in the COMOS Database
- Coordination with PreSales, Sales, Competence Center Operations and Portfolio Management

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Thank you!

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