



CIDEON – engineering digitized.

CIDEON SAP Add-Ons

Small Tools With big Impact

By using SAP product lifecycle management (SAP PLM), companies are able to optimally manage cross-company processes along the value chain and process data objects consistently.

Using CIDEON SAP Add-Ons can create a noticeable boost in the entire value chain and across the whole company by providing best practice solutions to optimize efficiency, quality and access management in SAP data management.

In addition, the Add-Ons generate sustainable savings potential in development and project times.



Highlights

- Improved integration of all departments involved in product development
- Routine work procedures made significantly easier
- Shorter development and project times
- Greater data and process transparency
- Easier decision making
- Increased innovation from technology transfer
- Lower costs and improved quality



PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

GLOBAL SUPPORT

A Collection of Best Practices

| | |
|---|----------------------------------|
| CIDEON Import PDM | CIDEON Export PDM |
| CIDEON CAD Release Migrator | CIDEON Document Function Manager |
| Document Creation Wizard | Naming Catalog |
| CIDEON Status Change Assistant | CIDEON Mini BOM Module |
| CIDEON Title Block Change History | CIDEON DMS Log |
| CIDEON Material Master Management Framework | CIDEON BOM Management Framework |
| CIDEON View Manager Solution | CIDEON Ahead Manager Solution |

Get the Most From SAP's Potential!

The CIDEON SAP Add-Ons integrate efficient, time-saving processing routines and automate everyday processes. They extend these by functionalities with practical project tools or additional user interfaces and menus integrated in the SAP GUI. The call of several transactions and unnecessary multiple data entries are eliminated. In this way, you achieve optimized processes for almost all common work steps in SAP Document, Material, BOM and Engineering Change Management.

The CIDEON SAP Add-Ons are based on your existing SAP ERP/PLM infrastructure and can be effortlessly implemented unmodified into your SAP system. Settings are made according to individual requirements. All required databases and practical interfaces for users as well as for administrators are, of course, included. Specific customer creations or adaptations enable simple options for enhancements to make CIDEON software solutions extremely flexible. The CIDEON SAP Add-Ons can also be integrated within the entire CIDEON product range. This gives CIDEON customers the greatest possible efficiency and optimal operation in all aspects of their SAP PLM implementation and their product development with SAP.



CIDEON Professional Services – Your Guarantee for Project Success

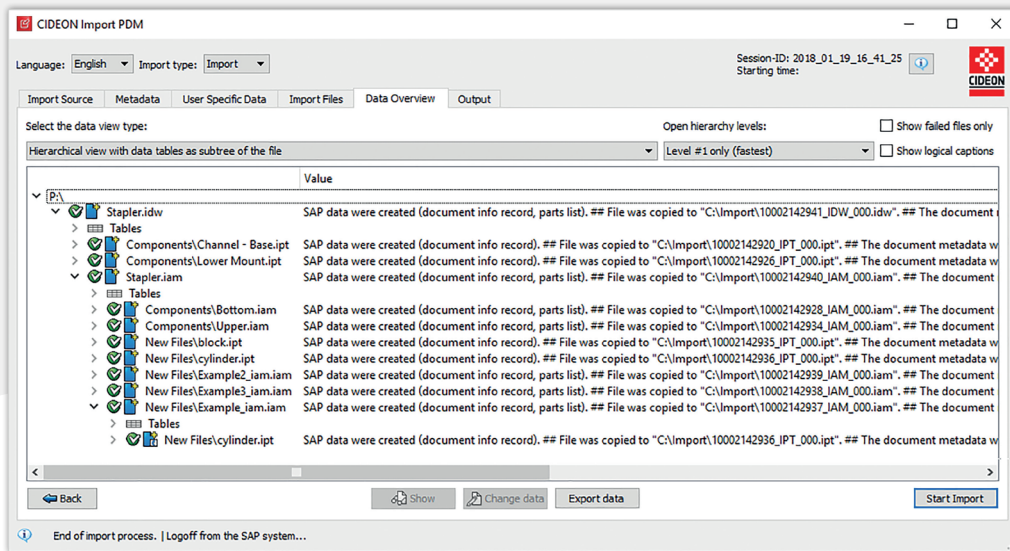
Our experience from hundreds of projects means we have unmatched expertise in products and consulting. We have helped customers to find solutions, define use cases and implement specific requirements.

All customers can now benefit from this.

In addition to our deep software expertise in the PDM/PLM and engineering environment, we offer a comprehensive consulting portfolio and best practices for your successful integration project.

Please contact us!

CIDEON Import PDM



The interface of CIDEON Import PDM for SAP offers a simple, adjustable data overview, e.g. with hierarchical or tabular display, as well as status displays and filter

(Re-)import of CAD Original Files, Non-CAD Originals and Directory Structures into SAP

CIDEON Import PDM supports you in replacing legacy systems and performs automatic import of mass data into SAP.

Functions (Excerpt)

SAP Document Management (DMS)

- Automatic creation and modification of SAP Document Info Records (DIR)
- Filling main and classification data
- Object links to SAP objects
- Status change in configurable target status
- Create/edit Bill of Documents based on the CAD structure
- Explode and exchange structures based on referenced CAD files

Re-Import

- Create a new document version
- Updating the document structure

CIDEON Export/Collaboration Import

(Re-)import after export using the export database in SAP, and external processing for collaborative scenarios in accordance with status networks and export status.



Advantages

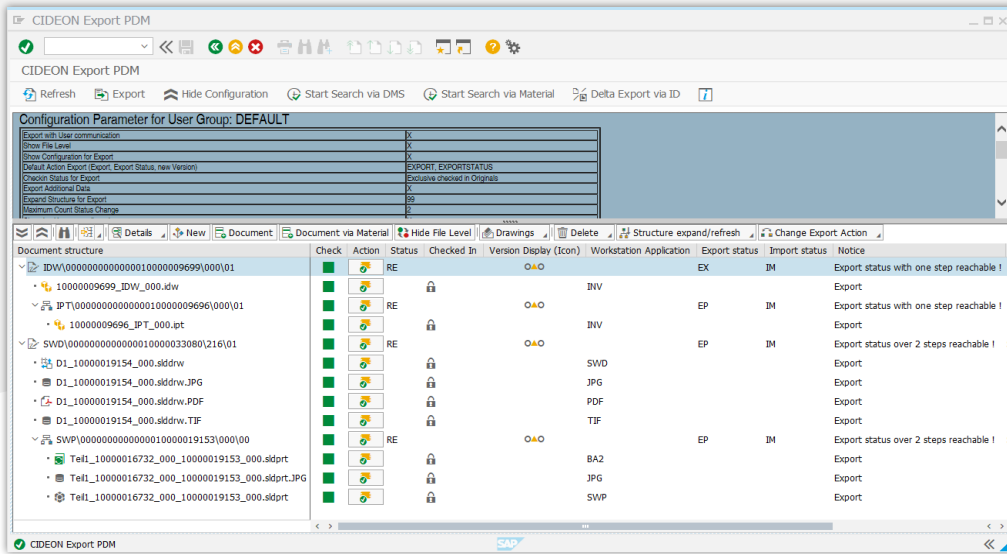
- Automatic import procedures for maximum user-friendliness
- Saves work for the design and IT departments
- No time-consuming, recurring manual tasks
- Fast error analysis through control and test functions
- Simple expansion and highest flexibility
- Convenient setup with the CIDEON Application Configurator

System Requirements

- SAP ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 and higher
- MS Windows 10



CIDEON Export PDM



The user interface of CIDEON Export PDM

Export Documents From SAP With one Click

The CIDEON Export PDM Add-On is a powerful tool that enables the export of CAD and non-CAD documents from SAP in a simple manner and thus represents the starting point for collaborations.

For this purpose, the supplied CAD data and associated files are re-imported precisely according to the SAP status network, the version and accounting for the change management. Another part of the CIDEON collaboration solution is the CIDEON Import PDM Add-On.

Functions (Excerpt)

- Start CIDEON Export PDM from: SAP transaction, document search (CV04N), product structure browser, object search in classes, document search via material (CIDEON function), CIDEON Workspace, SAP CAD Desktop, SAP Engineering Control Center (ECTR)
- Attach additional files also from non-CAD systems
- Additional security to maintain data consistency through optionally configurable “export” status
- Individual export status possible for each document type
- Selection of export control parameters
- Expand document and sub-document structures
- Consistency check for duplicate entries for differing actions



Advantages

- Support of distributed CAD design scenarios (collaboration)
- Automatic export without user communication
- Data consistency through SAP version and change management
- Simple configuration via SAP maintenance dialogues

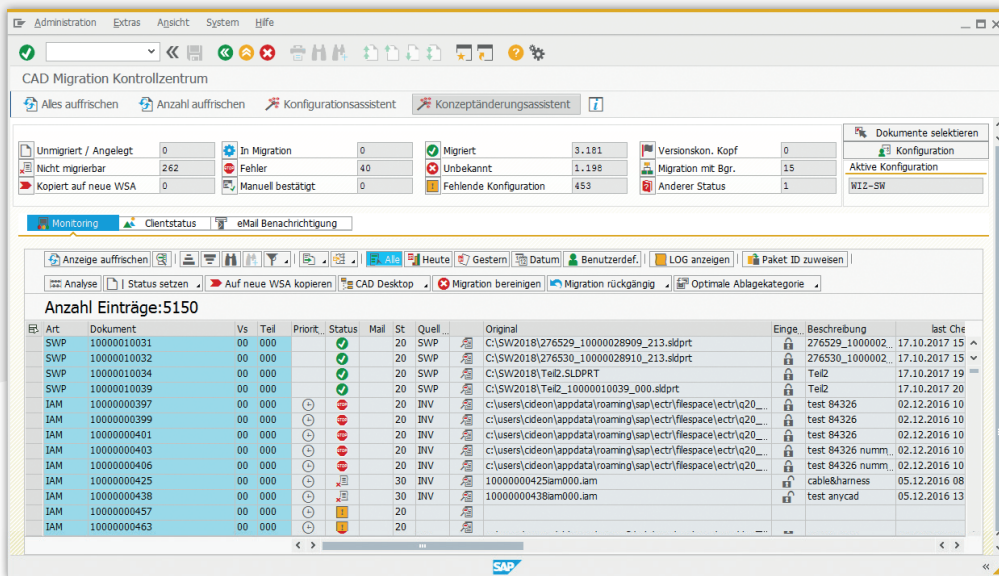
- Observation of all links during export such as xref, parts and assemblies
- Output of a log file to the target directory

System Requirements

- SAP ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 and higher



CIDEON CAD Release Migrator



In SAP, the Migration Control Center (MCC) serves as the control center for CAD migration and is the component for selecting data, monitoring the migration process and analyzing errors

If older Inventor® or SOLIDWORKS® files are opened with a new CAD system release, the data must first be converted internally. Functions within older file formats that are not yet supported or poorer performance during processing can also result in time-consuming, manual preparations. Then, as a rule, laborious imports or re-imports are first required to bring the data up to the current release status. It takes a lot of time before they are available for the actual engineering work.

Ensuring CAD Data Consistency in the Long Term

The CIDEON CAD Release Migrator converts files to the current CAD release status. The recalculation of all components, assemblies, standard parts and drawings stored in the SAP document management system (DMS) is fully automated. This ensures a high level of data security and quality, as well as the use of current, specific CAD functions. The result: Always up-to-date CAD data on a uniform release in the SAP system.

CIDEON CAD Release Migrator consists of the Migration Engine Client (MEC) and the SAP component Migration Control Center (MCC). The MEC uses the SAP Retriever to communicate with the SAP system for the purpose of



Highlights

- Minimized time expenditure due to parallel processing independent of daily business
- No manual activities
- Mass processing
- High data security and quality

data exchange with the Inventor or SOLIDWORKS Migrator, which processes the CAD data in the current data format. The actual migration process is realized outside the SAP system on a CAD workstation. It is possible to integrate customer-specific CAD processing routines.



AUTODESK
Inventor



The Inventor Migrator and the SOLIDWORKS Migrator are included in the standard CIDEON CAD Release Migrator.



CIDEON CAD Release Migrator

Bundle Efficient Work Packages

The complete (legacy) database can be searched, analyzed and tested via the SAP MCC using specially adapted functions based on various criteria that are important for the migration. The data determined is then used in summarized and prioritized work packages for the productive CAD migration. Within these work packages, dependent sub-assemblies and individual parts are also taken into account via loading rules or conflict rules.

Functions (Excerpt)

Configuration/Administration

- Convenient migration control center in SAP for administration, with support by wizards
- Control via parameters and activities in the workflow
- Monitoring of the migration process with extensive monitoring functions
- Location-dependent migration (multiple clients per location)
- Project-specific adaptations possible

Data Analysis Before Migration

- Analysis of the data set with criteria: checked-in, not/never checked-in, version conflicts, etc...)
- Simulation of migration for individual parts

Migration Process

- Central logging in SAP with extensive search and analysis functions for further processing
- Selection according to different criteria: document areas, document types, standard parts, documents in specific storage areas, according to previous version etc.
- Defined status network for work packages
- Load balancing through use of multiple workstations
- Migration in the background during productive operation
- Instant migration (ZeroImpact) or pre-migration with subsequent switchover (BigBang) or a combined approach
- Automatic restart functions in the event of malfunctions
- Storage of migrated data in the SAP Content Server, optionally with new workstation application
- Delta migration

Useful Additional Tool: CIDEON Script Migrator

In addition to our standard CAD migrators for Inventor and SOLIDWORKS, we provide a generic tool for the use of the migration process in SAP.

With the **CIDEON Script Migrator** you can easily migrate SAP document files from any other CAD system, Office and other applications, including existing document structures, into work packages and integrate them into the migration process of the CIDEON CAD Release Migrator.

Security

- Manual or automatic backup variants
- Configuration parameters to protect original CAD files
- Authorization concept (function codes) within the SAP control center (MCC)

System Requirements

- SAP ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 and higherr
- CIDEON CAD Interface RDP
- CIDEON Tools
- CAD systems: Inventor, SOLIDWORKS, generic interface (Script Migrator)



CIDEON Document Function Manager

Master Data With High Quality

The CIDEON Document Function Manager (DFM) is a central interface that enables SAP administrators to freely define follow-up actions and/or checks after certain triggering SAP events by simple configuration. It contains a set of predefined modules for various automated usage scenarios and also enables the integration of customer-specific function modules. Functionalities can be assigned (or deactivated) to dedicated user groups without the need for programming and transports in the SAP system.

For the user, the DFM only comes to light indirectly, e.g. if he wants to release a CAD assembly and the status change triggers a status check on all installed structural elements in the background and all unused content versions are to be deleted automatically.

In the event of conflicts, for example, because the release can only take place through the 4- or 6-eyes principle, users receive solution-oriented system messages. Especially in connection with the SAP Engineering Control Center (ECTR) interfaces, checks can be carried out, but also actions can be executed or, if desired, prevented. In this way, you always ensure the high quality of your master data despite simple administration.

Functions (Excerpt)

- Status check of documents and complete document structures (e.g. with release)
- Execution of defined actions in the event of document status changes



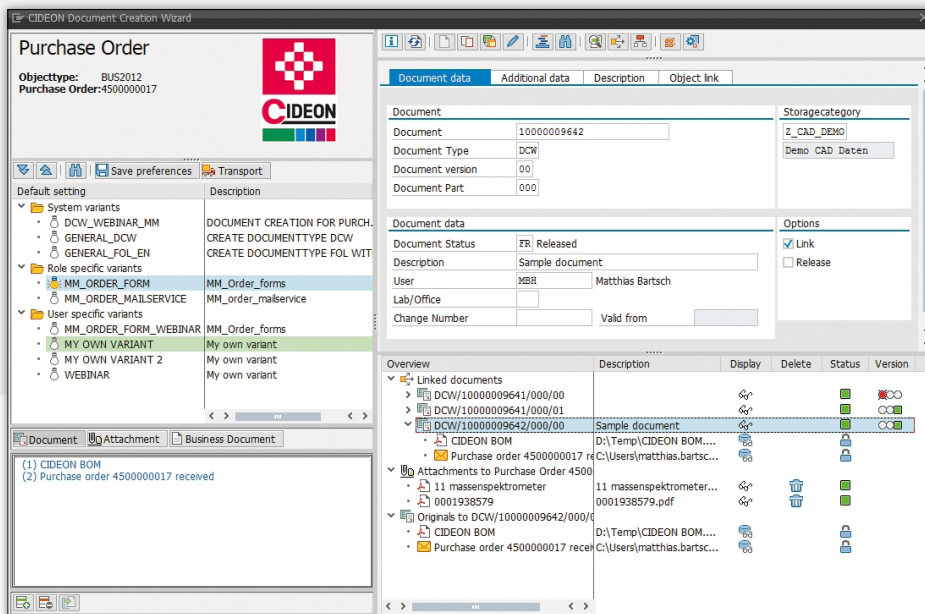
Advantages

- Improvement of process quality, through numerous checks and automations in SAP Document Management System
 - Immediate use of supplied modules for various application scenarios
 - Administration by the specialist department via comfortable user interface
 - Customer developments can be managed in one place
- Classification checks of documents
 - Version checks of documents
 - Very simple integration of customer-specific modules
 - Observance of dependencies between drawings and models
 - Notification function (e.g. SAP Express Mail, e-mail)

System Requirements

- SAP ECC 6.0 from EHP 5 or SAP S/4HANA
- SAP GUI 7.60 or higher
- Optional: use in SAP ECTR

CIDEON Document Creation Wizard



In SAP, the CIDEON DCW provides a clear overview of the creation and management of SAP files

Your Assistant for Fast, Easy Creation and Administration of SAP Documents

The CIDEON Document Creation Wizard (DCW) is an SAP Add-On that allows you to comprehensively manage your documents after they have been created.

The user-friendly interface brings the necessary transparency to object structures and relationships. The current status of each document is also explained at first glance through corresponding symbols and colors.

Functions (Excerpt)

- Easy creation of documents in the SAP DMS and Archive Link environment
- Automatic linking with corresponding SAP business objects
- Display of all documents and attachments available for the SAP business object
- Support of standard SAP DMS functions (object links, additional data, multilingual descriptions, etc.)
- Integration via the generic services for the object
- Intuitive file handling via drag and drop
- Process-oriented interface with click-optimized user interface
- Storage of presets via CIDEON variant access



Advantages

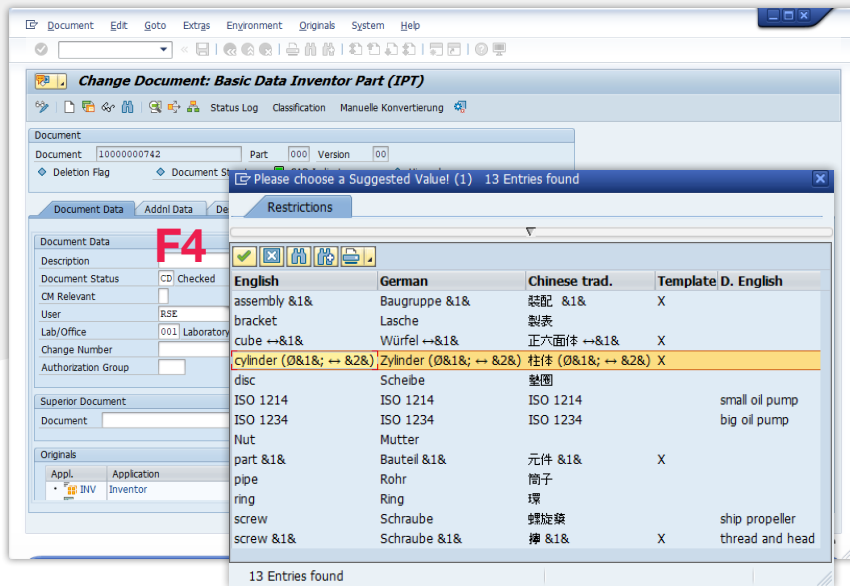
- User-friendly user interface
 - Process optimization through automated routines
 - Transparency through centrally consolidated management of all internal and external product information
 - Easy to install
 - Pre-settings can be flexibly defined: system-wide, role-based, user- and object type-specific
- Interfaces to other CIDEON solutions: Output Management, Conversion Engine and View Manager Solution)

System Requirements

- SAP System ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 or higher
- CIDEON Tools



CIDEON Naming Catalog



Example of a search help (F4) in SAP with multilingual values and naming templates

User-friendliness and Standardization by Enhancing the Search Help in SAP

CIDEON Naming Catalog performs systematic naming by using multilingual catalog value prompts to ensure standardized descriptions of CAD and non-CAD documents and materials in SAP.

Through the use of the search help, the CIDEON Add-On not only decisively improves the user-friendliness of SAP. The standardization of master data avoids additional costs that can arise in subsequent processes due to incorrect basic data.

Functions (Excerpt)

- Automatic search help generation via a search help wizard
- Use of multilingual fixed values and/or templates as multilingual suggested values that can be assigned to different selection menus
- Upload and download functions of CSV data for external processing of suggested values/selection sets by translation agencies
- Search help structure/procedures can be configured and, when required, can be enhanced or replaced by users' own installations



Advantages

- Easy-to-use user interface
- Clearly named object descriptions translated into several languages
- High degree of user-friendliness through access to the naming cataloge directly at the corresponding SAP field
- Central, structured administration instead of programming
- Convenient and flexible administration

System Requirements

- SAP ECC 6.0 from EHP 5 or SAP S/4HANA
- SAP GUI 7.60 or higher, optional: use in SAP ECTR
- MS Windows 10
- CIDEON Tools



CIDEON Material Master Management Framework

Simplified SAP Material Management

With the Material Master (MM) Management Framework, we provide standardized building blocks for a variety of use cases to make it easier for your departments to manage your SAP Material Master.

The easy-to-maintain integration into your individual processes allows, in addition to display, change, search and copy functions, the automated procurement of the necessary information for mass SAP Material creation, for example, when importing external data. SAP material classification can be taken into account as well as the automated creation of plant views.

Functions

- Standardized, mass-capable RFC modules for display, change, create, search and info actions for SAP Material Masters
- Consideration of SAP Classification
- Creation and change functions can be used in the background as well as via the SAP GUI
- The creation function supports a CREATE for several views/plants in one step
- The search can be pre-filled with data from CAD
- Data can be adjusted via PRE or POST BADs for each action



Advantages

Through accelerated SAP Material Master creation, the CIDEON MM Management Framework ensures rapid material availability, including completed plant views. Departments benefit from reduced effort for the manual creation and updating of SAP Materials through automatic background processes.

Supported Client Applications

- Autodesk Plant 3D
- EPLAN Electric P8
- DS 3DEXPERIENCE

System Requirements

- SAP ECC 6.0 from EHP 5 or SAP S/4HANA from 1511
- SAP GUI 7.50 or higher
- MS Windows 10



CIDEON BOM Management Framework

Simplified SAP Bill of Materials (BOM) Management

The standardized CIDEON BOM Management Framework flexibly supports the transfer of results from the design into SAP Material, customer order or project BOMs.

The automated derivation of BOM items or components directly from CAD ensures the accelerated provision of information for subsequent processes. Particularly in the case of changes in development, time-consuming manual maintenance is no longer necessary and the BOMs are error-free.

Functions (Excerpt)

- Derivation of BOMs across several drawings or across CAD systems
- Possible parts list types: material, order, project
- The function offers a comparison dialogue
- Sub-items are supported
- Z-fields are taken into account
- Customizing in SAP per BOM type: for additional checks/filling of data/customized sorting, a BAdI for sorting can be used (creation)
- Identical objects from different drawings are recognized and only included once in the BOM



Advantages

- Better process integration through direct BOM derivation
- Reduction of time-consuming activities through automation
- Accelerated provision of information for down-stream processes, especially in the case of changes

Supported Client Applications

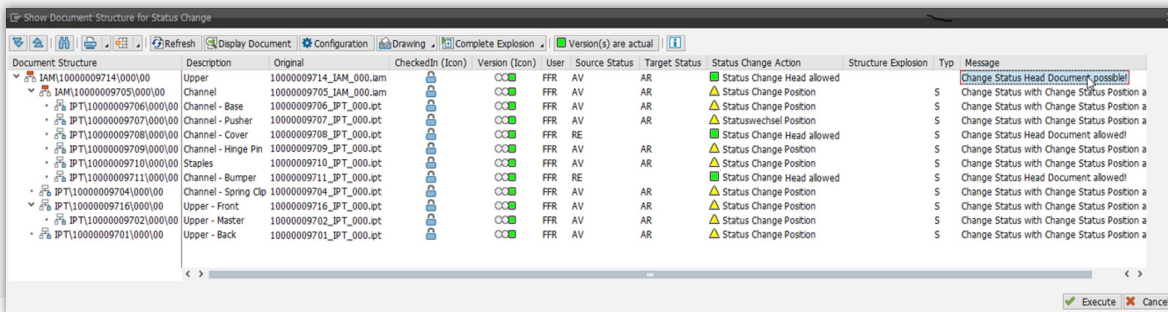
- EPLAN Electric P8
- ERP-PDM Integration Suite
- SAP Engineering Control Center 1.1

System Requirements

- SAP ECC 6.0 from EHP 5 or SAP S/4HANA from 1511
- SAP GUI 7.60 or higher
- MS Windows 10



CIDEON Status Change Assistant



Dialogue of the CIDEON Status Change Assistant when changing the status of a complete CAD assembly structure

Simplified SAP Status Change

The CIDEON Status Change Assistant facilitates work and saves time when changing the SAP document status of assemblies, drawings and their components.

The status change of a complete component structure is automated via the specially provided function of the CIDEON Add-On. This greatly simplifies the handling of SAP status management for users. At the same time, consistent release processes are ensured along the value-added chain, because errors that can occur through manually or individually performed status changes are avoided, especially with large, structured CAD assemblies. The status change of a structure starts from a selected header document and takes place via a defined and differentiated set of rules, taking into account freely definable check mechanisms (e.g. top-down or bottom-up) for the change from initial to specific target statuses. The file storage in SAP is carried out accordingly, e.g. check-in of the document originals when changing to a check status. Optionally, the checks can also be extended to the drawings of CAD models.

Functions (Excerpt)

- User support for status change of complete CAD structures
- Set of rules for the status change depending on the document type
- Simplification of release/pre-release/check request



Advantages

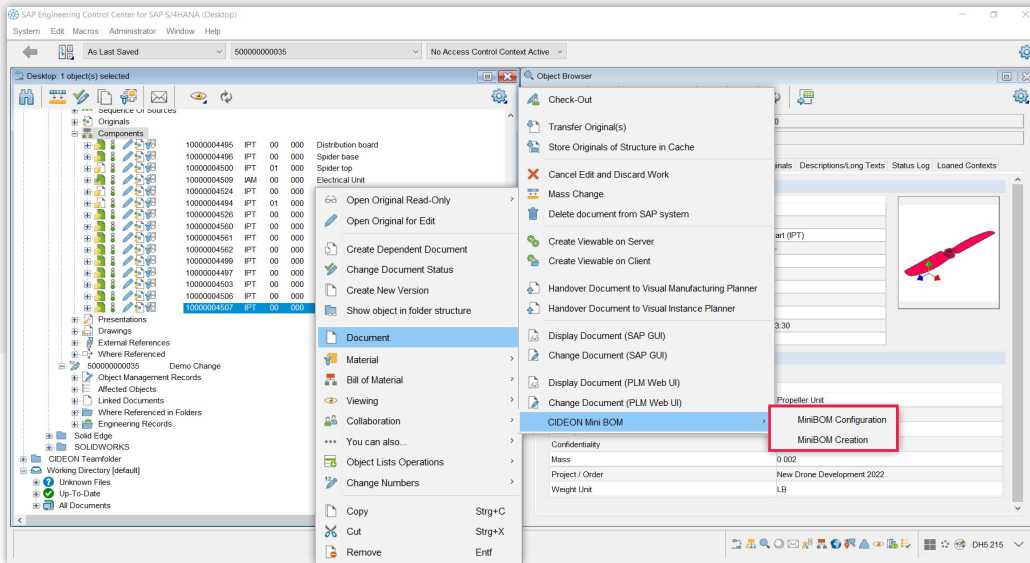
- Easy-to-use interface
- User-friendliness through search help
- Avoidance of additional work through standardization of master data
- No translation effort
- No programming effort
- Ensuring consistent releases
- Definable rules for switching to specific target status
- Automatic observance of dependent structures (e.g. "reload drawings")
- Control and management of different scenarios via the SAP authorisation concept (authorization object, user groups, roles)
- Various options for rules (number of status changes, resolution depth, termination in case of conflicts)

System Requirements

- SAP System ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 and higher
- MS Windows 10
- CIDEON Tools
- Optional: use in SAP ECTR



CIDEON Mini BOM Module



MiniBOM user menu in SAP ECTR

Advanced SAP BOM Functions

The CIDEON Mini BOM Module provides functions for the handling of raw dimensions in the context of SAP BOMs (creation/updating) and the creation of individual BOMs.

A user-friendly SAP configuration enables direct integration into the SAP BOM functions with the SAP CAD Desktop (CDESK) and the SAP Engineering Control Center (ECTR), offering high customizability and process-oriented application.

Functions (Excerpt)

- Available with the BOM functions of the SAP PLM direct integrations (SAP ECTR, SAP CAD Desktop)
- User-friendly configuration via supplied setting options
- Easy adaptability to the application and application process
- Use of SAP extension technologies (BADIs)
- Delivery as SAP transport incl. customizing interface
- The Mini BOM Module can be created/changed via button, e.g. via a SAP ECTR context menu entry or a CDESK button



Advantages

- Extended SAP BOM management
- Consideration of raw dimensions in SAP BOMs
- Simple configuration

- Connection of the Mini BOM Module to the Global/Multi-Bom via an own switch in Global/MultiBom customizing possible

System Requirements

- SAP ECC 6.0 from EHP 5 or SAP S/4HANA
- SAP GUI 7.60 or higher
- CIDEON Tools



CIDEON Title Block Change History

| | | | | | | | | | |
|---|--|-----------------------------|--|-----------------------------------|--|--------------|--|---|--|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR: | | SAP Material 5284 | | DEBUR AND BREAK SHARP EDGES | | Raw Material | | REVISION | |
| | | | | DATE | | NAME | | TITLE: | |
| | | | | created 03.05.2022 | | CAD User | | Gear Module SK250 II | |
| | | | | checked 24.05.2022 | | Demo_PM | | | |
| | | | | released 24.05.2022 | | Demo_PM | | | |
| | | | | | | | | DWG NO. 0000010598_SWD_000_04 | |
| | | | | | | | | A2 | |
| | | | | | | | | SCALE:1:2 | |
| | | | | | | | | SHEET 1 OF 1 | |

| | | | |
|-----|---------------|----------|------------|
| 04 | module | Demo_PM | 24.05.2022 |
| 03 | stabilization | Demo_PM | 18.05.2022 |
| 02 | -- | CAD User | 07.05.2022 |
| 01 | created | CAD User | 03.05.2022 |
| REV | CHANGES | NAME | DATE |

Entry of the change history in a drawing titleblock

SAP Information on Drawing Title Blocks

The CIDEON Title Block Change History offers the entry of a change/version history on any 2D CAD drawing title block with little effort.

Through simple configuration, both parameters and the fields to be transferred to the title block can be maintained. In this way, changes to any SAP document meta/classification and status log data as well as information from the linked change master records (e.g. change number, date of change, name of person changing, etc.) are applied to title blocks.

Functions (Excerpt)

- Simple compilation of data, definable according to different aspects, sequences and information
- Focus on obtaining values across multiple versions, for populating a version history table on a drawing header or in the file properties

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Advantages

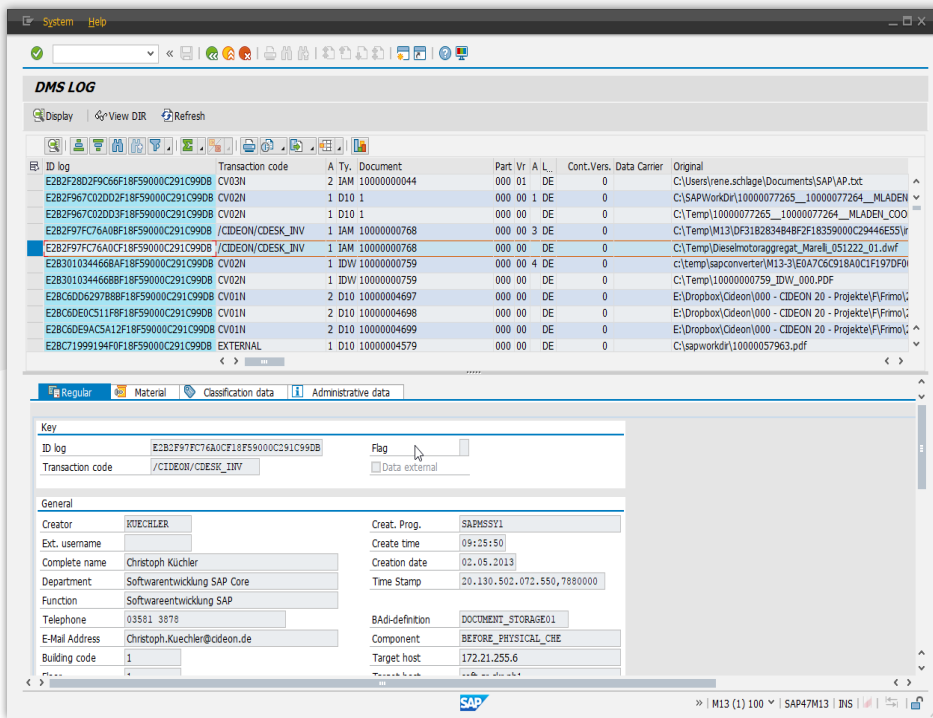
- Improved and faster traceability of changes
- Meaningful documents
- Automated data transfer to CAD files
- Simple composition through flexible configuration

System Requirements

- SAP System ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 or higher
- MS Windows 10
- CIDEON Tools



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CIDEON DMS Log is integrated in the SAP system

Traceability at all Times

The CIDEON DMS Log ensures data security and traceability of all accesses to an SAP Document Info Record (DIR) or to the original processing files managed with it.

The add-on offers extensive search options with individual displaying of data, e.g. which user has viewed, amended, printed, deleted which documents from which computer with which transactions.

The DMS Log is especially useful where special compliance is required in the product development process.

Functions (Excerpt)

- Extensive search options for data display
- Instant jumping to the DIR
- Query filter, e.g. by quantity, authorization group and classification

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Advantages

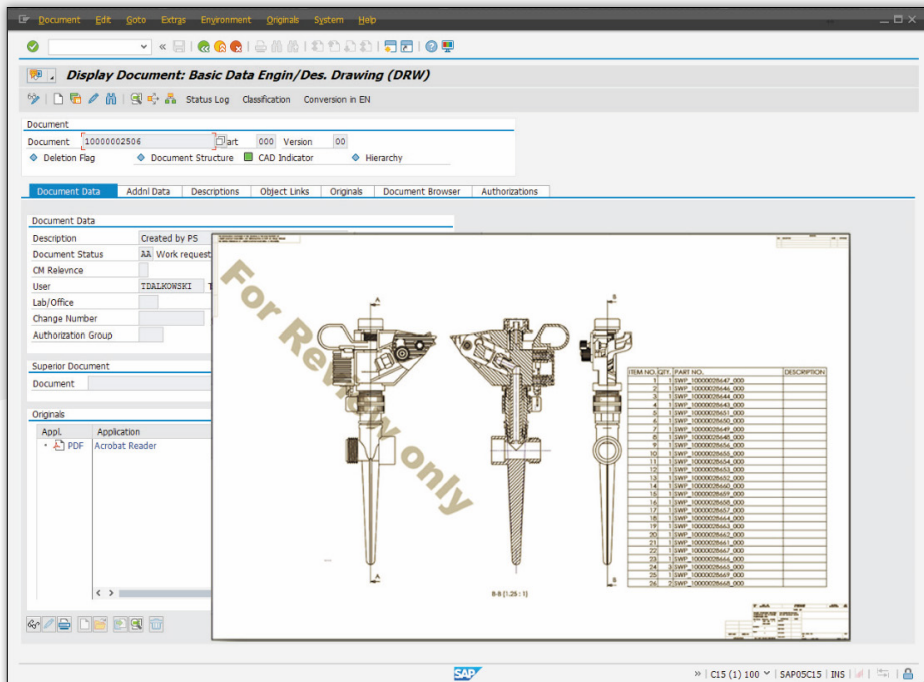
- Security
- Data consistency
- Traceability

System Requirements

- SAP System ECC 6.0 from EHP 5 or SAP S/4HANA
- SAP GUI 7.60 or higher



CIDEON View Manager Solution



Display of the current document status during screen display or when printing

Legally Compliant Documents

With the CIDEON View Manager Solution, every function-oriented access (display, copy) to documents is registered. In this way, the corresponding document context as well as the status of the document at the time of the action can be traced at any time.

Functions (Excerpt)

- Support for various SAP document applications (e.g. SAP DMS, SAP Knowledge Provider, SAP ArchiveLink)
- SAP keys (document, material, customer number, etc.)
- SAP document attributes (user, status, processing time, description, classification features, etc.)
- SAP business object metadata (material, functional location, equipment, order, customer, etc.)
- Application of watermarks, bitmaps, texts, logos, barcodes, copyright notices, etc.
- Stamping (the graphical CIDEON stamp editor is available)
- Display of the prepared document on screen via standard viewers (e.g. Adobe Reader, SAP ECL Viewer, SAP 3D Visual Enterprise Viewer)



Advantages

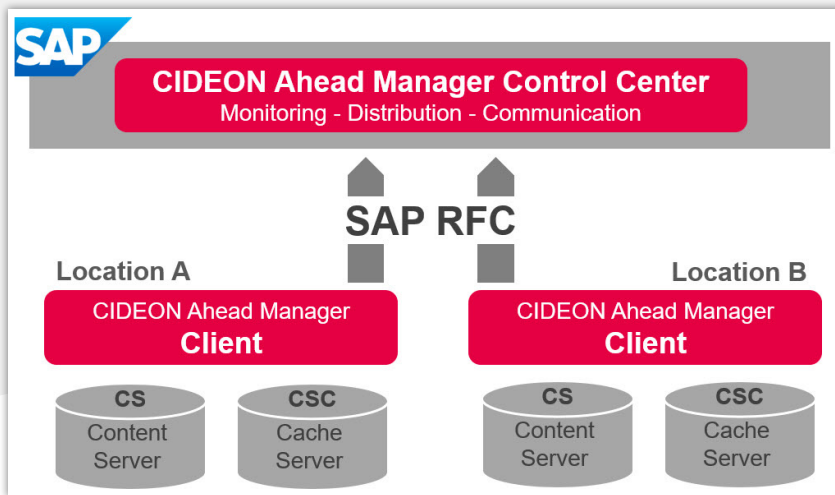
- Identification of documents and drawings with available information from SAP ERP/PLM
- Integration of PDF and PDF/A security functions and password protection
- Scalable architecture and individual integration into standard/customer transactions
- Includes CIDEON RFC Server and CIDEON PDF Editor

System Requirements

- SAP System ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 or higher
- MS Windows 10, MS Windows Server 2012, /R2, 2016, 2019
- Java™ Runtime Environment V 1.8 (x64)
- SAP Java Connector 3.0.19 (x64)
- CIDEON Tools



CIDEON Ahead Manager Solution



The architecture, which consists of an SAP part, the CIDEON Ahead Manager Control Center and location-dependent clients

Save Yourself the Wait and get Started

CIDEON Ahead Manager ensures fast access to files from remote engineering sites, as fast as from local servers. All common scenarios of cross-site collaboration are supported with the SAP Document Management System (DMS) in conjunction with the proven SAP content/cache server architecture.

Functions (Excerpt)

- Prefill of the cache server with relevant data from content servers
- Relocate data between content servers
- Automatic relocation and prefill according to defined rules when the status of the SAP Document (DIS) and when the original is stored at the DIS (check-in)
- Manual prefill/relocate according to user request (On Demand)
- Time-shifted work of the clients



Advantages

- Consistent file access for cross-location collaboration with hugely reduced waiting and loading times
- Flexible configuration and scalability
- Fully automatic, rule-based operation
- Reduced load of the network infrastructure in day-to-day business

System Requirements

- SAP System ECC 6.0 from EhP 5 or SAP S/4HANA
- SAP GUI 7.60 or higherr
- MS Windows Server 2012,/R2, 2016, 2019
- Java™ Runtime Environment V 1.8 (x64)
- SAP Java Connector 3.0.19 (x64)
- CIDEON Tools, CIDEON RFC Server

CIDEON Software & Services GmbH & Co. KG
 Lochhamer Schlag 11 · D-82166 Gräfelfing
 Tel. +49 (0) 89 909003-0 · Fax +49 (0) 89 909003-250
 info@cideon.com · www.cideon.com