



SAP® Engineering Control Center Integration Tool Compendium



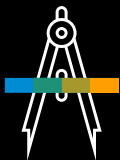
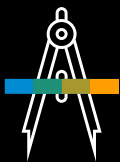


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Create Holistic Definitions for Complex Products and Improve Product Development with SAP® Engineering Control Center



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Dear Reader,

Welcome to the compendium for the SAP® Engineering Control Center integration tool. It is a compilation of value collaterals spanning customer success stories, business transformation studies, solution videos, brochures, and press articles.

Our intention with this compendium is to create a single digital experience for our readers. We trust it will inspire you and your team to see how SAP solutions are helping make the lives of experts in R&D and engineering easier so they can focus on creativity.

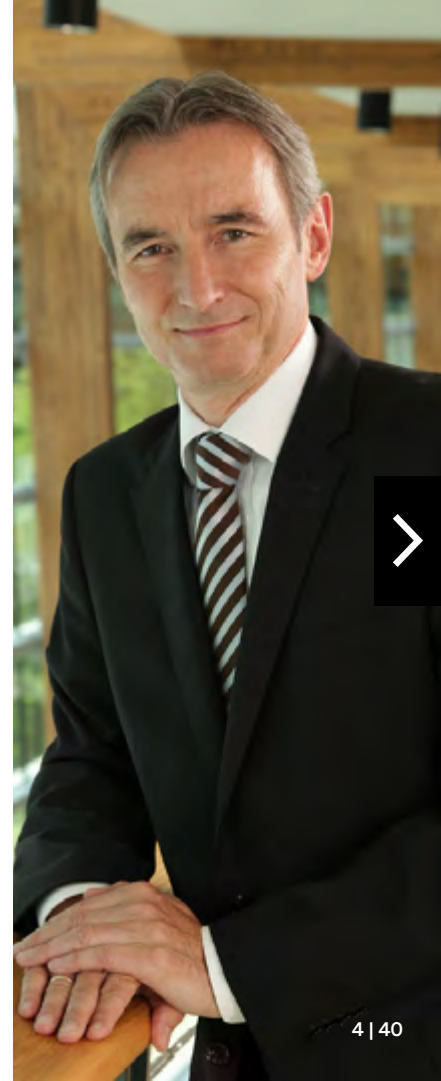
With this compendium, we also showcase the power of our teams working together with customers and partners – developing customer value in global deployments.

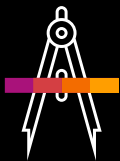
We hope you gain a fresh sense of enthusiasm from this compendium, which is updated regularly. More than ever, we are passionate about our mission to make adopting innovation an empowering experience for our customers. We look forward to our continued collaboration and to receiving your valuable feedback and suggestions.

Best regards,

Thomas Ohnemus

Vice President, Marketing, SAP Digital Supply Chain, SAP SE





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SAP Engineering Control Center: Where the Digital Twin Begins

Delivering a holistic approach for integration and digitalization

Today, manufacturers look to create digital twins for their products to follow the entire lifecycle – from design, production, delivery, use, and service to end of life. The digital twin enables manufacturers of devices, machines, and plants to offer new services and thereby fully exploit the opportunities of digitalization. But where does the digital twin begin? Is there a point at which manufacturing companies can start?

Start at the beginning. With the SAP Product Lifecycle Management (SAP PLM) application and SAP Engineering Control Center, you lay the foundation for the digital product data required to achieve a digital twin, including standard integration of mechanical computer-aided design (MCAD), electrical and electronic computer-aided design (ECAD), and Microsoft Office software.

[Read the brochure >](#)





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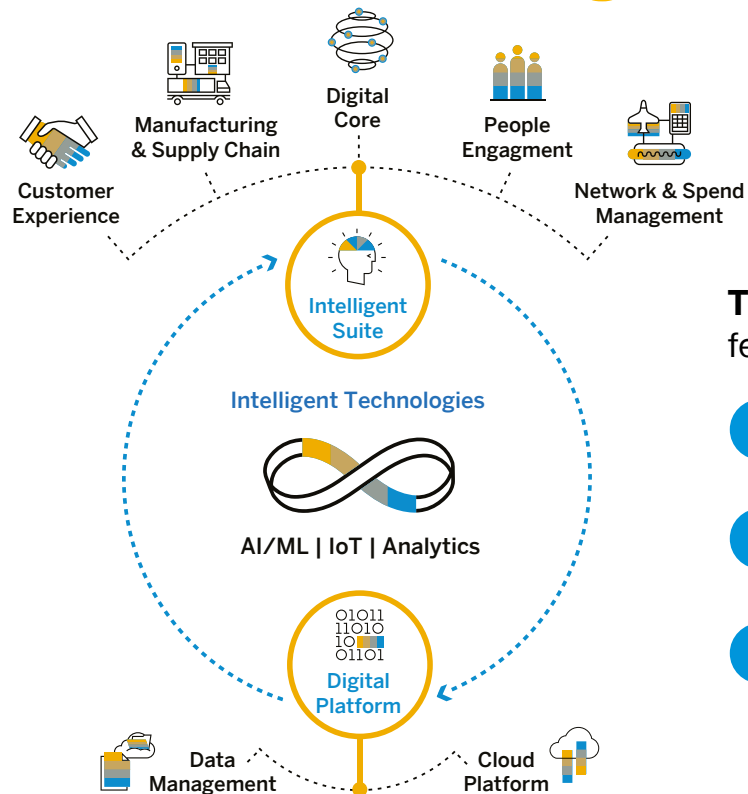
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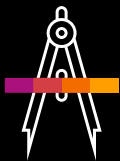
The Intelligent Enterprise

The Foundation of a Digital Supply Chain



The Intelligent Enterprise features **3 key components**:

- 1 Intelligent Suite
- 2 Digital Platform
- 3 Intelligent Technologies



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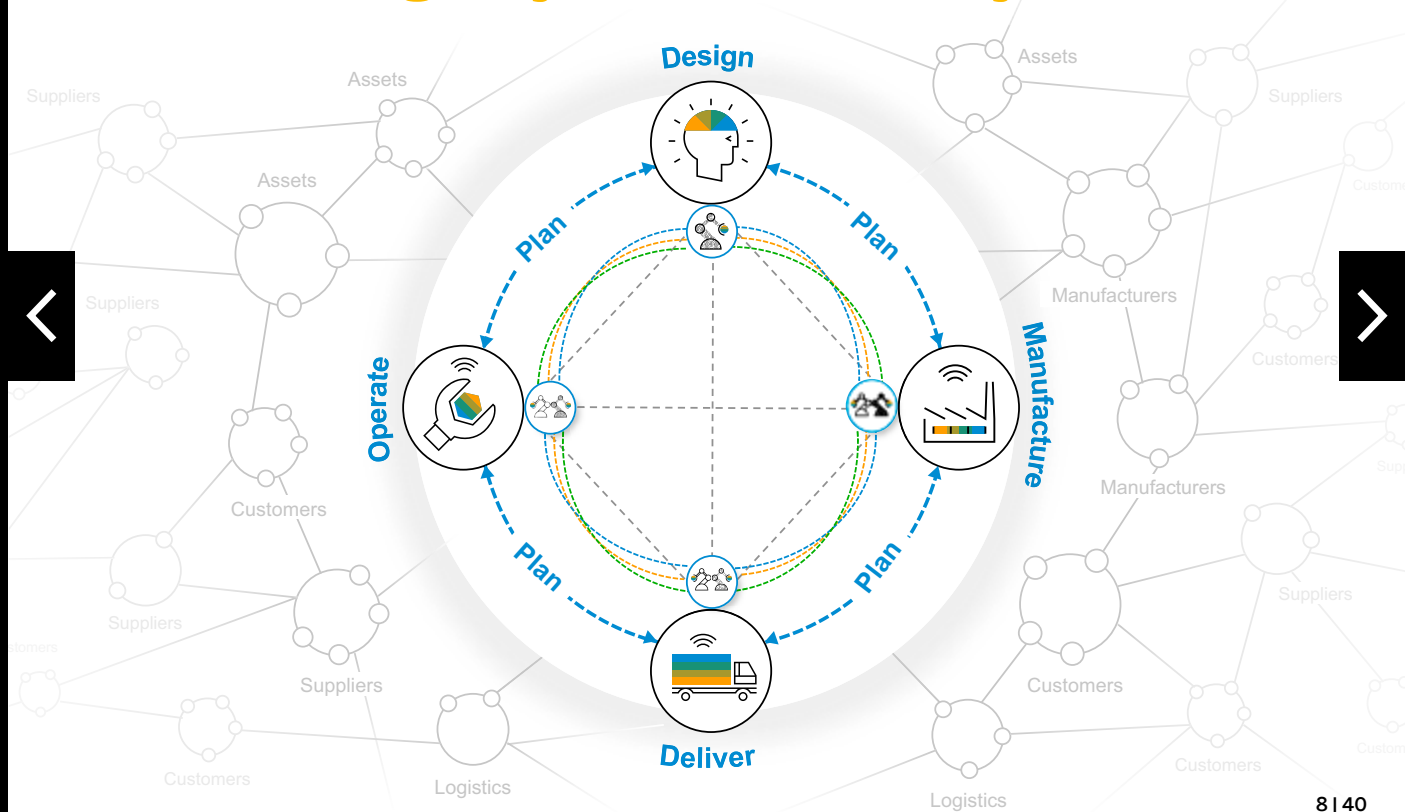
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Digital Supply Chain – Design to Operate

Connect Digitally to Perfect Reality





SAP PLM for Use in Discrete Industries

Enable integrated R&D processes **across all teams** with consistent product data

Idea and requirements

Early engineering

Detailed design

Prototyping

Handover

Change

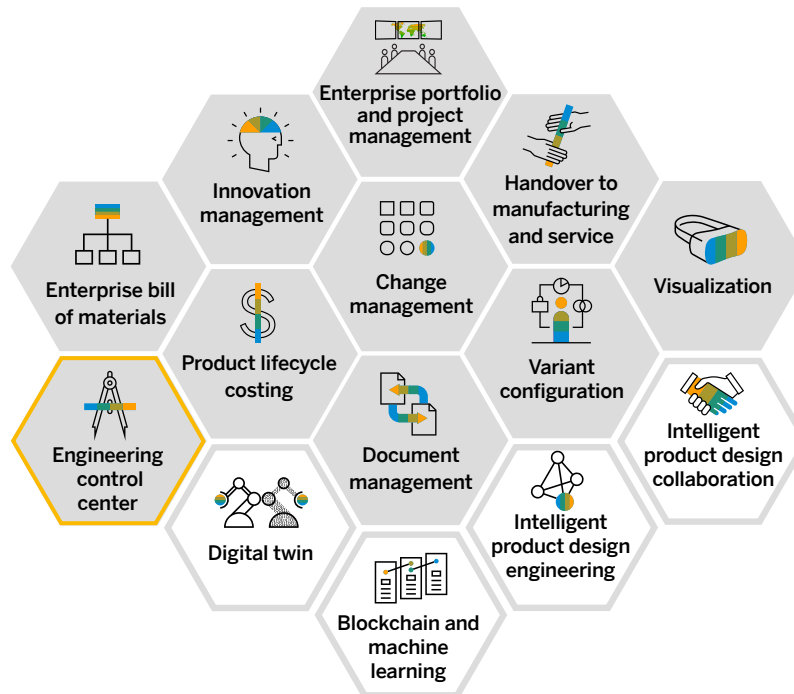
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Highlights and Benefits

- Enable and **accelerate** product innovation
- **Target customers uniquely** through individualized, complex products (segment of one)



Continued

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- **Grow revenue** with faster innovation time and integrated R&D to increase productivity
- **Reduce costs** with automated data management
- Develop **new business models and services** with collaborative product development
- Use SAP Engineering Control Center as a **cockpit for engineers** to manage SAP PLM data and participate in SAP PLM processes



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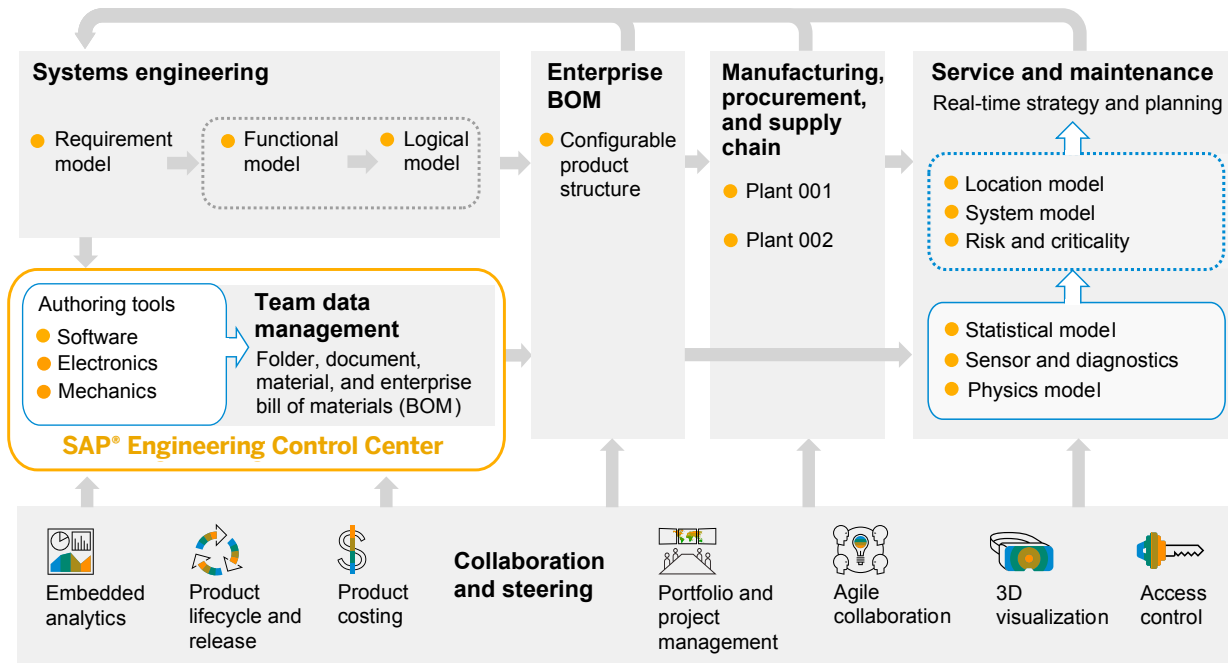
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Components of SAP PLM for Requirement-Driven Collaborative Engineering



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Create your digital twin by integrating data from various authoring tools and design systems into the SAP software IT backbone with SAP Engineering Control Center. This gives you absolute control over your product data and enables you to:

- Manage the ever-growing product complexity and diversity in one system
- Create comprehensive product descriptions across disciplines
- Maintain data consistency everywhere in your ecosystem
- Administer version control throughout design and engineering
- Reduce the total cost of ownership for your authoring landscape



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Mechatronic Approach with **SAP Engineering Control Center**

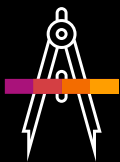
Combine mechanical, electrical, and electronic design data on a single platform and enable cross-discipline collaboration. You can integrate business data from SAP software with design information from authoring systems for MCAD and ECAD software and other simulation tools.

- On-premise deployment
- Comprehensive product descriptions
- Consistent product definition
- Robust version control functionality

[Learn more >](#)

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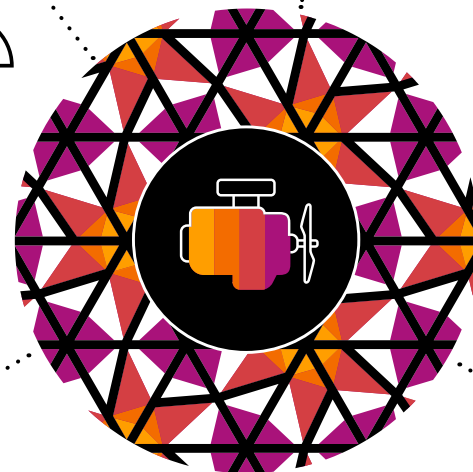
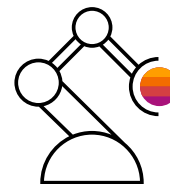
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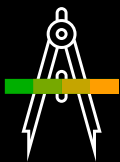


SAP Engineering Control Center: Connect Engineering to Your Enterprise

SAP Introduction Video

SAP Engineering Control Center allows you to efficiently manage all documents and data from product idea to production and is the central point of access for all the tools you need in product design.





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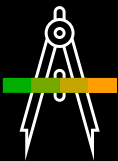
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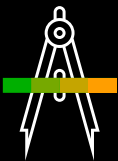
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Intuitive Interface for **Authoring Tools**

- Get a comprehensive overview of all required SAP information, including access to material master data and bill of materials (BOM) data
- Leverage flexible, user-specific folder structures with drag-and-drop and copy-and-paste functionality
- Use context-sensitive pull-down menus to simplify navigation
- Apply integrated 2D and 3D viewing





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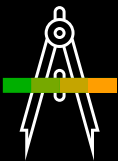
Comprehensive **Integration** Features

- Apply robust and proven integration technology for technical authoring systems
- Accommodate different CAD system requirements and data models
- Ensure secure, high-performance file handling



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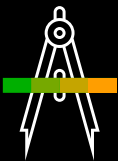
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Intelligent **Process** Support

- Enable comprehensive presentation of all product development information
- Provide a context-based menu structure and user guidance
- Use extensive search capabilities, including classification-based, active list search and advanced document searches with results displayed as previews or lists





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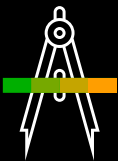
SAP Engineering Control Center Supports Collaboration with Partners and Customers via the SAP S/4HANA® Cloud Solution for **Intelligent Product Design**

- Easy file import to and export from the SAP S/4HANA® Cloud solution for intelligent product design directly via the user interface (UI) for SAP Engineering Control Center
- Easy access to the intelligent product design folders directly via the UI for SAP Engineering Control Center
- Maximum transparency through the generation of a PDF summary of the exported files
- File import with information about new and changed files directly via the UI for SAP Engineering Control Center



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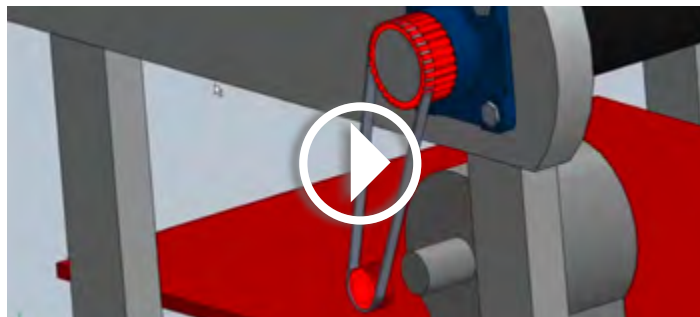
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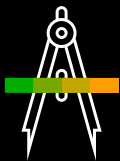
Collaborate with Your External Partners Using SAP Engineering Control Center and SAP S/4HANA Cloud for Intelligent Product Design

SAP Video

Are you tired of never having consistent product data that is readily available to all team members as well as your extended enterprise working on a single product design? Well, it has never been easier than today with SAP software. Featuring the integration between SAP Engineering Control Center and the SAP S/4HANA Cloud solution for intelligent product design,



collaboration of product design data between partners, whether they happen to be an internal or external workforce, has never been smoother or more accessible.



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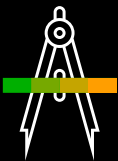
Intelligent Process Supports **Structured Technical Document Management**

- With targeted business-process support
- Consistent change and release processes for company-wide current data
- Integration of MCAD, ECAD, and Microsoft Office documents
- Transparent document flows and processes



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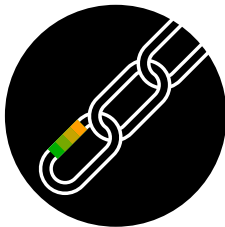
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Key Benefits



Integrate authoring tools across the value chain

Access information from across the product development process using a single, integrated platform.



Get a 360-degree product view

Gain a holistic view of all product development information, including data from mechanics, electronics, software, and simulation teams.

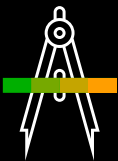


Improve quality management

Benefit from embedded quality and sustainability management features in the authoring tool interfaces that help users work more effectively.

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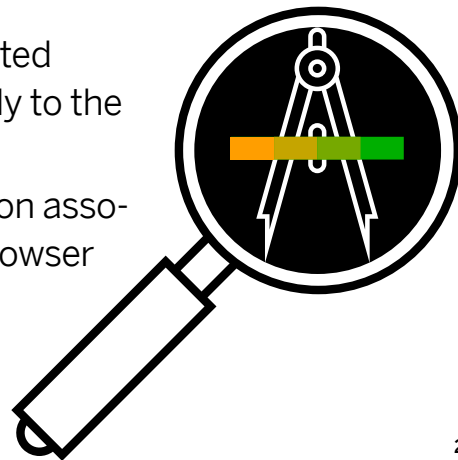
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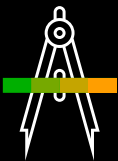
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Manage Your Projects with SAP Engineering Control Center

Projects must be planned, controlled, and monitored in a goal-oriented, economical way. For this, the project system component provides all the necessary functions for including project structure mapping via WBS elements or giving an overview of dates, costs, and resources of the individual project activities. SAP Engineering Control Center integrates these functions and objects into the user interface of SAP Engineering Control Center. The advantages for engineering projects include:

- Interlinking the project structure and associated documents, which can be created analogously to the project structure
- Overview of all activities, documents, and so on associated with the project through the project browser
- Posting of expenses directly in parallel with the creation of documents





SAP Engineering Control Center: **Enable Product Definition by Integrating Design and Business Data**

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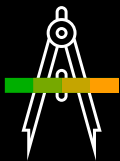
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SAP Engineering Control Center: Manage Product Development Processes Effectively

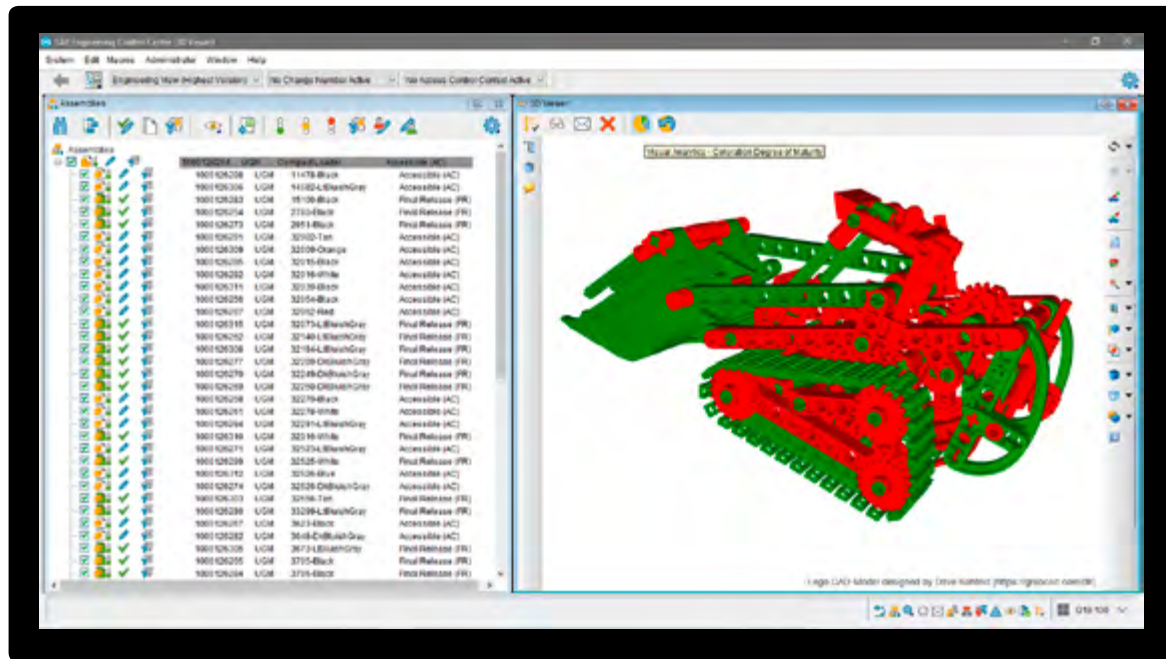
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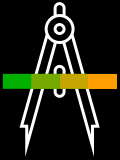
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SAP Engineering Control Center: **Integrate Product Development Data**

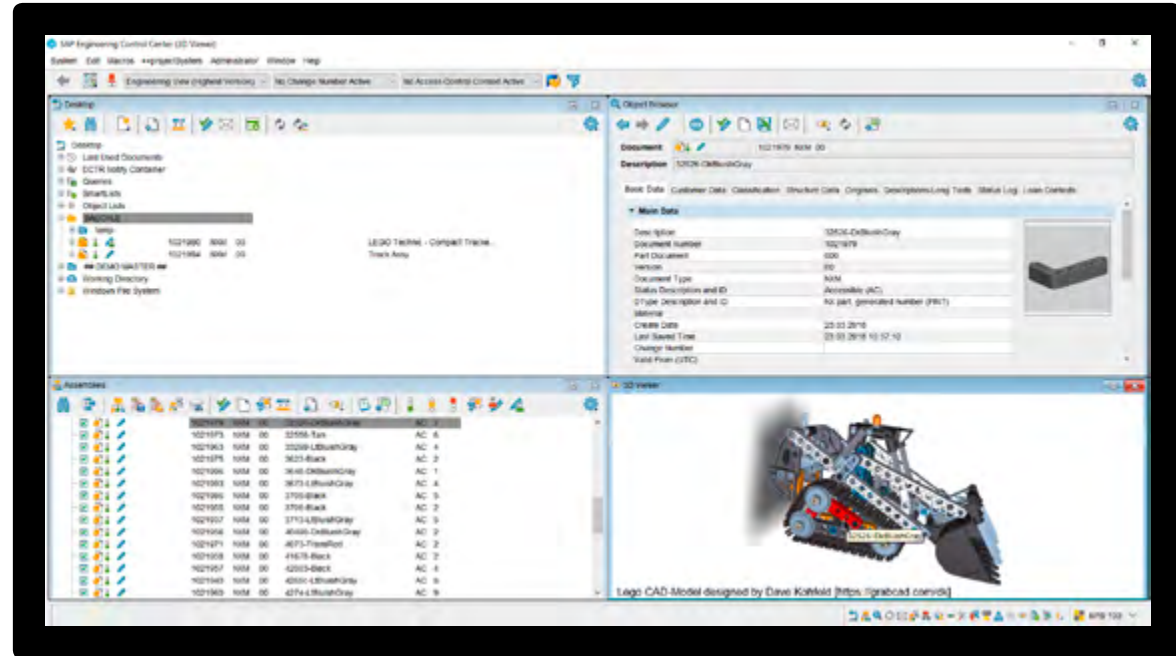
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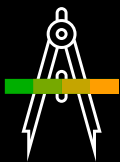
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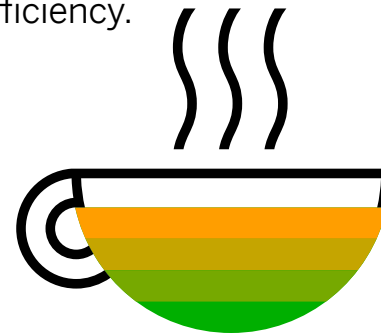
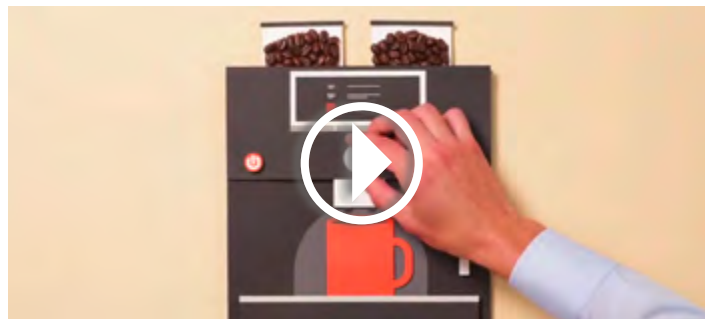


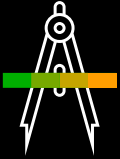
SAP Engineering Control Center for Use with SAP Business Suite and SAP S/4HANA

DSC Software Image Video

Watch DSC Software's new image film and discover how the intuitive UI of the SAP Engineering Control Center integration tool allows graphical navigation through SAP software data structures with embedded viewing. See how it integrates various authoring tools such as MCAD, ECAD, or Microsoft Office products easily into SAP software. SAP Engineering Control Center is SAP's new standard for integrating leading authoring

tools – bringing your integrated product development to a new level of efficiency.





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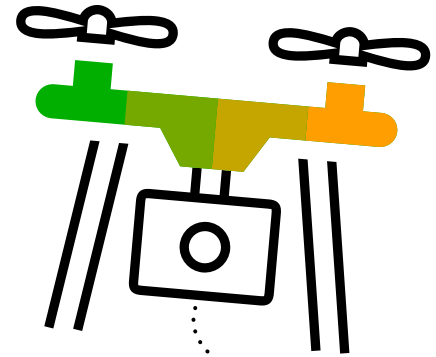
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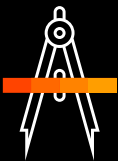
Achieve Nearly Seamless Process Integration in Mechatronic Design with **SAP PLM**

Properly connect the workstreams of mechanical engineers, electronic engineers, and software developers in the mechatronic design process.

Use SAP PLM to synchronize data and create one BOM, enabling cross-disciplinary cooperation across the entire supply chain.



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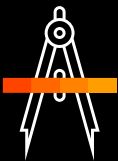
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ebm-papst

SAP Business Transformation Study

Review how this German manufacturer of compact fans for IT equipment increased its engineering efficiency by implementing SAP Engineering Control Center. Take a close look at how the tool supported consistent integration across the diverse CAD landscape and made it simpler for designers to perform their tasks.



Reduced

Waiting time,
thanks to back-
ground handling
of linked parts



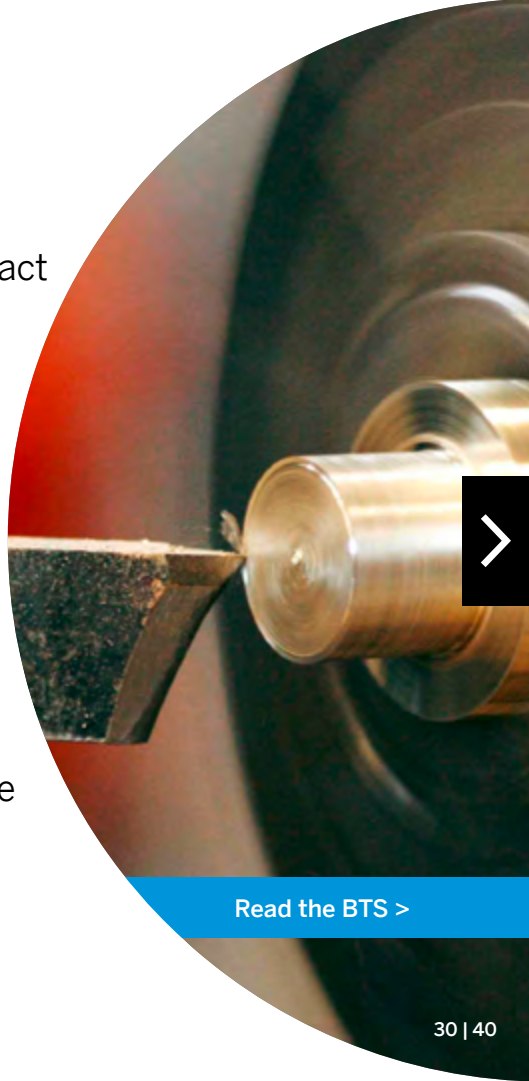
Integrated

Functionality
across PLM
applications



Extensible

User interface
and custom
functions



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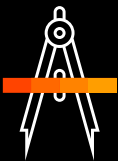
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“SAP Engineering Control Center is a very powerful and user-friendly tool that increases our engineering efficiency. CENIT is a reliable project partner. In time, quality, and budget, we got top ROI from the service and the software.”

Bernd Steinwandel, SAP Application and Process Engineer, ebm-papst St. Georgen GmbH & Co. KG



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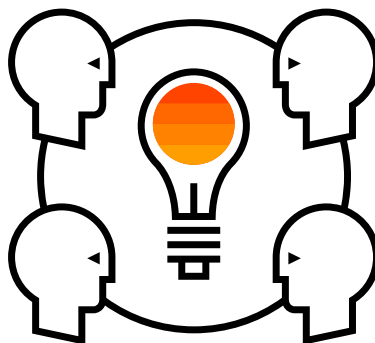
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Georg Fischer AG

SAP Business Transformation Study

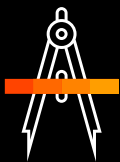
The company worked with CENIT to move from managing its engineering systems locally to centralizing all of its R&D activities through SAP Engineering Control Center.



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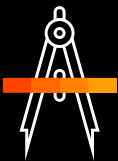
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Excelling in Efficiency with
the **SAP Engineering Control
Center Integration Tool**

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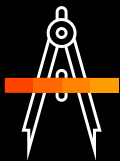


Sandvik AB

SAP Business Transformation Study

Industrial, engineering, and mining companies in 150 countries have relied on Sandvik AB's tooling systems for decades. Sandvik's research and development organization is the beating heart of a company with 50 R&D centers around the world and numerous annual R&D investments, as well as more than 7,300 active patents and intellectual property rights. That's why the Swedish conglomerate decided to bring these crucial R&D processes, performed by its business area Sandvik Machining Solutions, under one umbrella with SAP Engineering Control Center.

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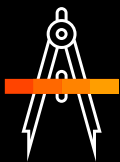
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“SAP Engineering Control Center enables us to put all the product information from all production sites into one system, in one place. We now have a single source of truth, and that’s extremely important to us.”

Rickard Nordgren, PLM IT Manager, Sandvik AB



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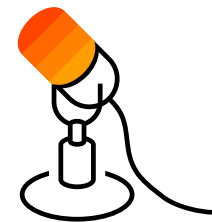
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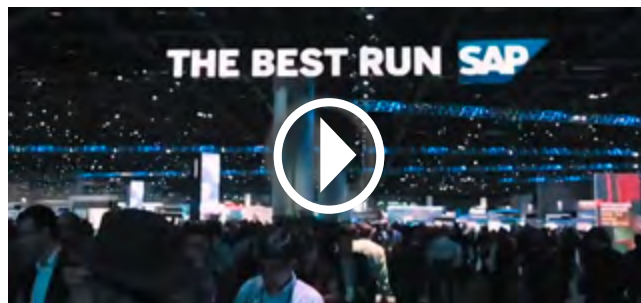
SAP PLM Application Alliance at the **SAPPHIRE NOW® Conference in 2018**

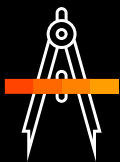


SAP Testimonial Videos

During the SAPPHIRE NOW® conference in 2018, we spoke with customers about their view of SAP PLM and SAP Engineering Control Center and their journey with SAP. This year's theme and focus was "Where the Digital Twin Begins: SAP Engineering Control Center." SAP Engineering Control Center is the SAP platform for the integration of authoring tools, such as MCAD, ECAD, and Microsoft Office, created specifically for this purpose. With the features offered, your engineers can easily and intuitively access the powerful SAP

software without special knowledge or excessive training. Watch the compelling customer testimonial videos of known brands, and discover the benefits and advantages of using SAP PLM with SAP Engineering Control Center.





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Technical Information

SAP Engineering Control Center is deployed on premise, and system and software requirements vary by specific customer scenarios.

[View all documentation >](#)



Get started with detailed installation information

Follow the setup instructions so you can start running SAP Engineering Control Center quickly and confidently.

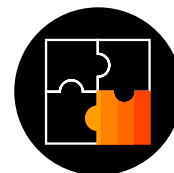
[Read the guide >](#)



Configure your software

Optimize configuration of SAP Engineering Control Center with this comprehensive configuration guide.

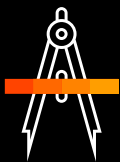
[Read the guide >](#)



Integrate with other solutions

Find out how you can integrate SAP Engineering Control Center with your existing IT landscape.

[Read the guide >](#)



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Get Maximum Value from **SAP Engineering Control Center**

Jump-start your implementation and drive ROI by collaborating with industry experts, consultants, and support engineers throughout your journey.



Services

Transform your business quickly and effectively by taking advantage of our holistic service and support plans, expert consulting services, custom application development, proven best practices, and deep industry and technical knowledge.

[Explore our services >](#)

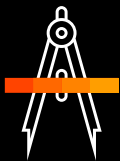


Support

Get the support you need to keep your SAP solutions running at peak performance with our IT experts and support services, including long-term plans, embedded teams, remote technology support, a self-service portal, and innovation strategies.

[See our support plans >](#)

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Security and Compliance

Focus on your business and customer relationships while knowing that your data is safe and reliable. With a proactive, predictive approach, SAP helps ensure compliance and data security in the cloud and within an on-premise data center.

[Learn about security at SAP >](#)

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