

# PRO.FILE ERP Server for SAP

Reliable SAP integration for seamless processes

- A standard solution rather than custom programming
- Allows you to better plan your SAP integration objects
- Lets you transfer all standard object types
- Eliminates the need for manual data entry



## Summary

The PRO.FILE ERP Server for SAP connects the product data management of your CAD systems to SAP. This ensures efficiency and eliminates errors in the automated exchange of objects and data (material masters, bills of materials, documents, change numbers, status) between development/design teams and purchasing/production/sales teams. A prerequisite for achieving end-to-end product lifecycle management (PLM).

## The advantages

Automating the synchronization of all relevant information systematically prevents typing errors, different versions, and the need to re-create entries. This gives developers significantly more time to focus on their value-creating work and increases the quality of master data.

## Applications

Different user departments in manufacturing and engineering companies looking to gain a competitive edge through end-to-end product lifecycle management.

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"PRO.FILE has been running very stable for 20 years now and we haven't had any problems. Working with PRO.FILE and the SAP integration every day has become a matter of course for us."

Oliver Arnold, CAD+PLM coordinator at  
Seidel GmbH, Germany

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## The challenges and the solution

### Transferring items, BOMs, and CAD drawings to SAP

Manual entry of BOMs into the SAP system is almost always riddled with typos and subsequent errors and then there is the problem of PDF files that are manually generated from CAD drawings and then manually transferred to the SAP system only to quickly lose their validity. This results in purchasing and production teams who work from outdated versions, which can turn out to be very costly and time consuming.

PRO.FILE gives you an elegant way to navigate these challenges: Simply "hand over" your bills of materials to the SAP system at the click of a button. You can also choose to have it automatically generate PDFs from CAD files and to send them to the intended recipient when the status changes to "approved". This ensures that everyone involved in the process is working from the latest version, allowing them to achieve their goal of faster and successful project delivery.

### Bringing together what belongs together

The data and documents that are part of a particular project or order are often stored separately depending on the department or systems in which they were created. This makes it impossible to get a complete overview. The SAP integration in PRO.FILE integrates all project data generated by the different teams in development, production, Quality Management, and service and stores them in a single location. This establishes a consistent product data backbone that you can leverage throughout the entire interdepartmental business process, effectively eliminating delays that often occur when transferring between departments.

### Synchronization of information required in both development and SAP systems

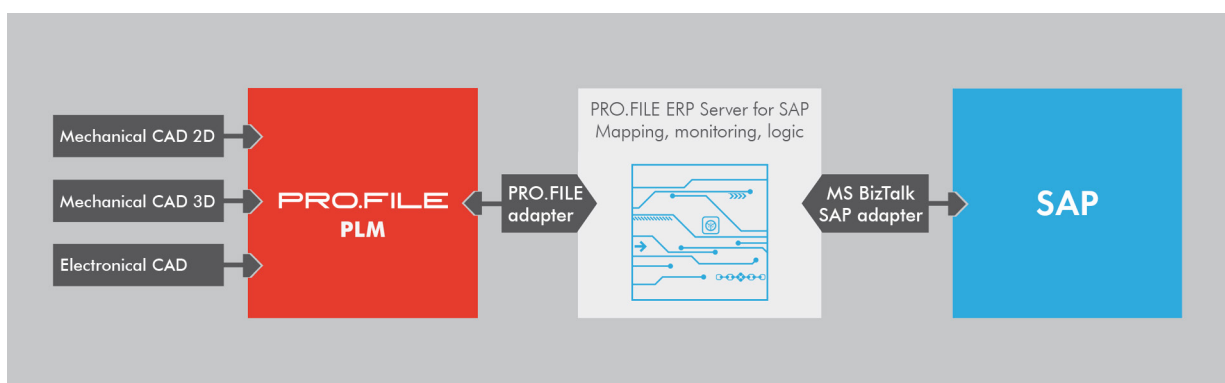
Items are described in the CAD and product data management system based on technical information (material, weight, etc.) as well as separately in the SAP system based on commercial data (production costs, stock availability, etc.). The synchronization of data ensures that all relevant information is always up to date in

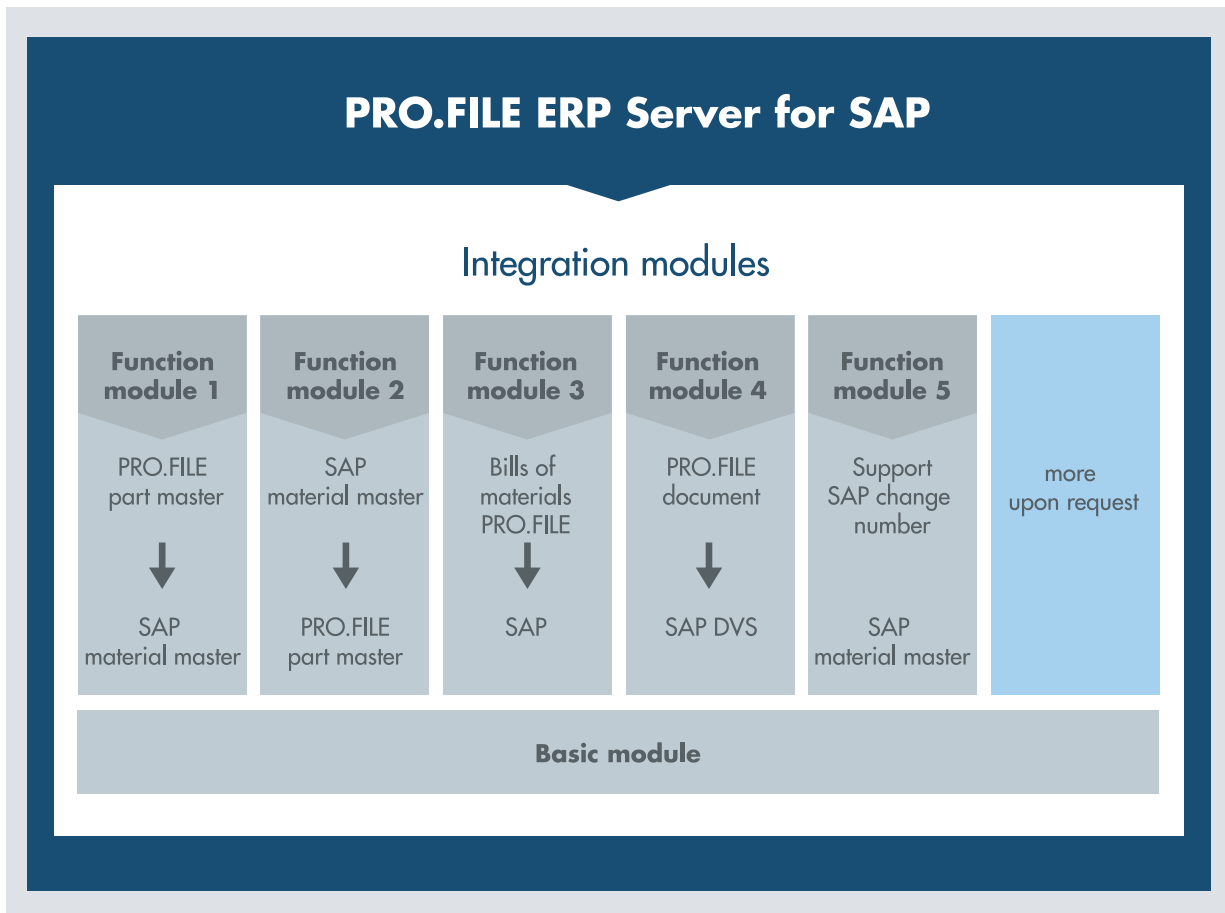
both the development systems and the SAP systems. This is due to the SAP integrations that are in place to enable seamless processes and check every transfer for completeness. One example is that assemblies that are locked in the SAP system will no longer be used by the design teams. They instead fall back on alternatives that can be delivered faster or are already in stock. This allows them to reduce the variety of parts and gain valuable time.

### FACTS

"74 % of companies place significant emphasis on being able to search across distributed locations and data sources."

Pumacy Report "Trends in CAD Parts Management", June 2015





### Update flexibility

PDM systems should not be connected to the SAP system using a custom programming approach because this usually means that the custom program needs to be modified for every future system update.

PRO.FILE's SAP integration ensures upgradeability: The SAP integration is based on standard software, the proven "Microsoft BizTalk Server for SAP" middleware. Release upgrades of connected systems can be performed with little to no maintenance required on the interface.

Multiple SAP systems, for example from distributed locations, are

simultaneously connected to the BizTalk Server using the corresponding adapters. This is possible due to the SAP-certified integration with SAP NetWeaver Server.

### Quick Start Function modules

PRO.FILE and SAP are integrated on the basis of pre-configured and selectable software modules, which means the integration follows the logic of a configurator. You decide which function modules you need or to remove. This standardized approach eliminates any guesswork about the time and effort involved

in the implementation and the desired outcome.

This creates complete transparency into the project implementation phase and makes it that much easier for you to plan, predict, and subsequently expand your integration projects.

### Documentation

The complete documentation of the information contained in your CAD and SAP systems meets the requirements specified by DIN EN ISO 9000 and other standards. This gives you more certainty in terms of product liability and manufacturer's liability.

## Product highlights

Data synchronization, seamless data flows	<ul style="list-style-type: none"> <li>• Bidirectional synchronization of material master data, bills of materials, change numbers, documents, etc.</li> <li>• Event-driven (status transitions) or manually</li> <li>• Example: a material master number from the SAP system is actively entered into the CAD drawing title block through PRO.FILE</li> </ul>
Bills of materials	<ul style="list-style-type: none"> <li>• Automatic and accurate transfer of data from the CAD system to the SAP system(s) at the click of a button</li> <li>• Discrepancies in the descriptions such as different units of measurement are reported immediately</li> <li>• PRO.FILE BOMs can be edited to add, for example, lubricants, packaging, or spare parts</li> <li>• Successive transfer of running bills of materials</li> </ul>
Access to all information	<ul style="list-style-type: none"> <li>• Always work from the latest version</li> <li>• Make informed decisions on the use of purchased parts based on current SAP information</li> <li>• Master data from SAP views can be displayed in PRO.FILE</li> <li>• PRO.FILE user administration with roles and privileges for granular access control</li> </ul>
Fast retrieval rather than multiple searches	<ul style="list-style-type: none"> <li>• Avoid having to do multiple searches in separate systems</li> <li>• Obtain simultaneous search results from all systems in PRO.FILE</li> <li>• Less need for new entries</li> <li>• Establish preferred parts</li> </ul>
Better handle long lead times	<ul style="list-style-type: none"> <li>• Get an early start on the procurement process for long-lead parts independent of the status of the overall project</li> <li>• Create the "material" object while still in the development phase and trigger the order in the SAP system</li> <li>• Manufacture and deliver on time</li> </ul>
A foundation for your process management/PLM	<ul style="list-style-type: none"> <li>• Event-driven transfer throughout the approval process</li> <li>• Enable automated change order management for example based on PROCAD's PLM enhancement PRO.CEED</li> <li>• Accelerate your business processes</li> </ul>

### In a nutshell:

- Automate and control the synchronization of data between your development system and ERP system (PRO.FILE – SAP).
- Never again work from erroneous or outdated data.
- Minimize the variety of parts by conveniently accessing SAP data from PRO.FILE / your CAD system.
- Simultaneously integrate multiple MCAD and ECAD systems and other IT applications.