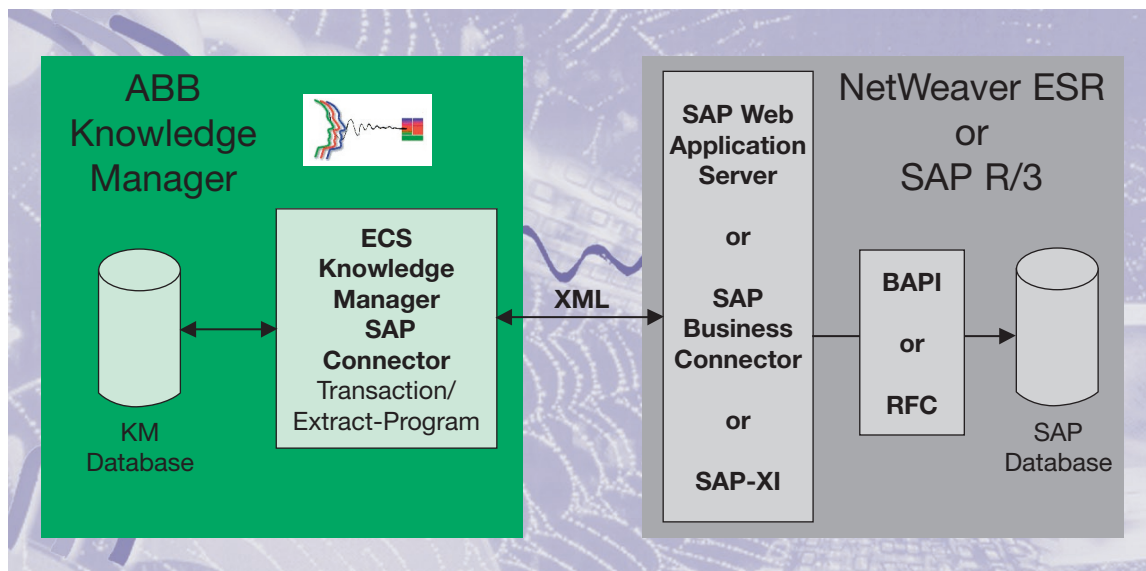
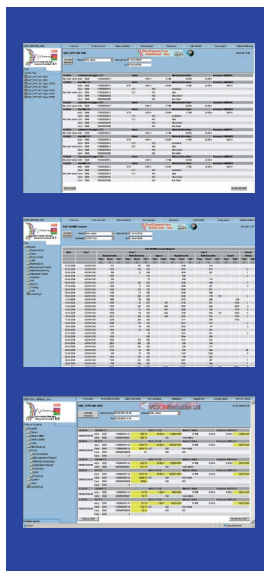


ECS Knowledge Manager SAP Connector

Industrial^{IT}: ERP Connectivity for the Cement and Minerals Industries



ABB



Benefits

- On-line integration of manufacturing in the overall business process
- Packed solution based on standard methods
- Short implementation time
- Easy to maintain, no SAP expert required
- Save up to US\$200 k in every installation

«Direct integration with your ERP»

Extend your Knowledge Based Solution by integration to your SAP System

The ABB Enterprise Connectivity Solution (ECS) is your way to connect to SAP ERP software. Specifically, Knowledge Manager SAP Connector extends the reach of your ABB Knowledge Based Solution (KBS) into your enterprise applications by supporting direct interaction between the manufacturing and the business processes.

Using this connector, your manufacturing information is integrated with SAP; and your business information from SAP is integrated with your manufacturing environment in a smooth and accurate way.

ECS Knowledge Manager SAP Connector technology

The engineering and configuration of the SAP connector is carried out using the Knowledge Manager Application Developer Toolkit, i.e. the same tools and methods used for report configuration are supported to configure the SAP connectors. No specific knowledge of the SAP internals, SAP interface technologies, and most importantly no knowledge of software development, is required to use or configure the connectors.

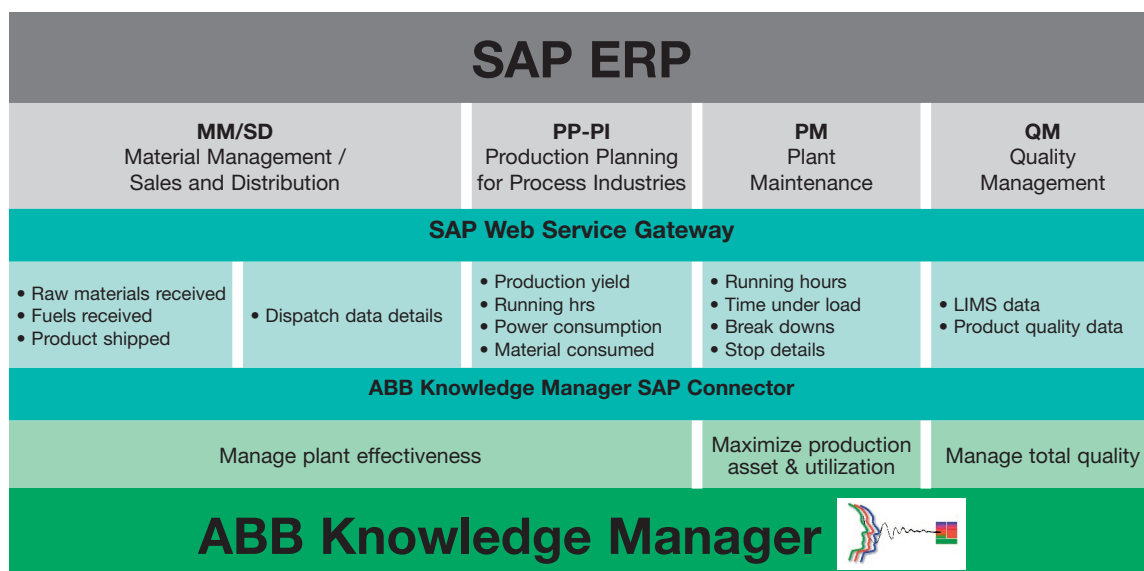
All the methods required for connecting to SAP and transferring the manufacturing information are fundamental to the ECS Knowledge Manager SAP Connector.

Both standard SAP communication methods BAPI (Business Application Programming Interface) and RFC (Remote Function Calls) are used to transfer the information between Knowledge Manager and SAP. For open and transparent information exchange the connectors are based on state-of-the-art web based technologies such as HTTP, XML and Web Services. As Web Service gateways to SAP, the SAP Web Application Server, SAP XI (NetWeaver) and the SAP Business Connector are supported.

The Connector supports the online exchange of information between the SAP modules and the corresponding modules in ABB Knowledge Manager. In SAP, no specific customization is required in most of the modules. The ECS Knowledge Manager SAP connector replaces the re-entering of data by electronic data transfer. And for your reassurance the ECS Knowledge Manager SAP Connector keeps detailed logs of all data exchanged with SAP.

SAP Enterprise Portal integration

The connector supports the integration of Knowledge Manager display elements into your SAP Enterprise Portal. This is accomplished by the Knowledge Manager display elements being exposed as iViews, iView being a component supported by the SAP Enterprise Portal. This provides you with even further flexibility and the benefit of being able to see manufacturing and business KPI's all on the same web page.



«Enterprise-wide SAP module connectivity»

SAP PP-PI Connector

The ECS Knowledge Manager Connector for SAP Plant Production Planning for Process Industries (SAP PP-PI) supports the automatic transfer of the manufacturing information collected from the process control system to SAP. All manufacturing information recorded and calculated by Knowledge Manager can be sent as order confirmations to SAP. The connector supports the common business procedures for information management used in a manufacturing plant such as optional information validation before sending to SAP and sending of the information adjustments resulting from the mass balance to SAP. The connector supports the full business process cycle from downloading process orders for production confirmations, sending partial and final confirmations back to SAP and sending processing complete indication for downloaded orders.

SAP PM Connector

The ECS Knowledge Manager Connector for SAP Plant Maintenance (SAP PM) supports the automatic transfer of the running hours and any other running condition indicators from the process control system to the SAP PM module. The connector updates the measurement points defined in SAP by adding new information as measurement documents. In the standard set-up, the connector automatically creates a measurement document for each measurement point, once a day.

SAP MM Connector

The ECS Knowledge Manager Connector for SAP Material Management (SAP MM) supports the download of material movements from SAP to Knowledge Manager. The inventory management in the Knowledge Manager Production Accounting module needs the information of the received raw materials and the shipped products as input for the mass balance.

SAP SD Connector

The ECS Knowledge Manager Connector for SAP Sales and Distribution (SAP SD) is an extension of the MM connector. The SD connector downloads the delivery documents and supports a drill down of the shipment data in multiple dimensions such as sales channel, means of transport, packing type etc. The detailed information helps the production department to track the detailed workload in the shipping department.

SAP QM Connector

The ECS Knowledge Manager Connector for SAP Quality Management (SAP QM) supports the upload of LIMS quality data, e.g. for usage in delivery documents and visibility of product quality data within the organization.

Applications

- Production Costing
- Production Planning
- Material Management
- Plant Maintenance
- Quality Management

SAP, SAP Web Application Server and SAP Business Connector are registered trademarks of SAP AG

ABB Knowledge Manager

Knowledge Manager is your productized solution from ABB. Be up and running quickly with this customizable solution. Get fast ROI with world wide support from ABB's local experts. Only Knowledge Manager brings you the perfect blend between 'off the shelf' and inclusion of your specific needs, enabling you to roll out the benefits across all your plants, quickly, time and time again.

More than 500 systems installed worldwide are using ABB knowledge-based solutions for information management and process optimization. A world leader in process specific Collaborative Production Management – ABB, always at the forefront of developing cutting-edge technology.



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