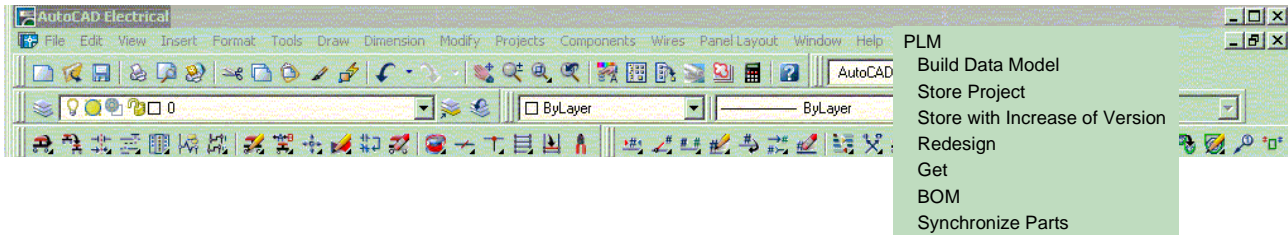


AutoCAD[®] Electrical with Product Lifecycle Management

You have invested all this knowledge in your electric design in AutoCAD[®]. Now you want to...

- associate it with the versioned data of enclosure, software, documentation, harness, cabinet...
- forward data to other persons in manufacturing, service, qc, purchasing, test, materials control..



You want this process to be automatic, painless, easy and quick and you want to focus on design, not on PLM issues, data bases, or processes in the company.

→ You want Integrate

Operation

You operate Integrate function from the AutoCAD menu. The integration establishes the communication between your AutoCAD authoring tool and the PLM system.

Build Data Model

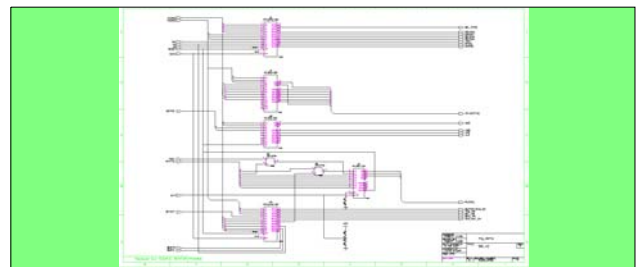
Extract metadata like part number and version from PLM once into the AutoCAD design structure.

Metadata	Metadata in Table Field	Field Type
Document No.	ITEM_ID	S25
Revision	MINOR_REVISION	S10
Version	ITEM_REVISION	S10
Customer	CUSTOMER	S20

Build the product structure in PLM with **Synchronize Metadata**.

Store Project

Check an innovation container with your design into PLM for Engineering Change and re-use. Extract reports from AutoCAD and create plot files to place them in PLM for viewing. The contents and structure of the extracted dataset is configurable.



The data set grows in PLM while you develop and enhance the design. Store with increase of revision creates a new revision of the dataset in PLM as a snapshot since you want to retain it for later reference.

Redesign

Resolve the assembly structure for Engineering Change from an innovation container in PLM into the AutoCAD environment for immediate use, with optional reservation of the design in PLM and with increase of revision after release.

Get

Reuse a design or part of it in a new project.

Integrate

BOM

Extract preliminary Bill-of-Materials data into PLM for advance material disposition. Update the BOM in PLM for production release when you have completed the project.

INITIAL_POS_NO	400
MAX_POS_NO	9999
POS_NO_STEP_SIZE	10
REF_PREFIX_SEQUENCE	„UNSD“, „U“, „LP“, „C“, „D“, „IC“, „BT“, „R“, „L“, „F“
MAX_LENGTH_REFDES	8, „X“
VALID_PROGRESS_INDICATOR	110

The **BOM** module is highly configurable for comparison and ERP requirements.

Automatic support of your company's BOM structure includes:

- variant Bill-of-Materials,
- hierarchical Bill-of-Materials,
- manufacturing Bill-of-Materials with sub assemblies and location-specific sub-BOMs.

Synchronize Parts

Capture classified electric item descriptions in PLM including the release state. Then synchronize the items with the corresponding parts database entries automatically in the AutoCAD system. Push items from AutoCAD to PLM.

Adaptability

A host of features distinguish your company processes from other companies', ranging from fundamental topics like part number format and BOM sorting sequence to the automatic extraction of variant designs.

So Integrate modules have editable configuration files. These are adapted in the introduction phase to your companies' processes.

Spotlights on some Features

- Interactively selectable Bill-of-Materials per variant.
- **BOM**: supports association with in-circuit programs, multi_level definition of sequence of parts, creation of manufacturing BOMs, optionally including assembly line management data.
- **Synchronize Parts**: electric item synchronisation from PLM into the corresponding parts classes with optional display of associated data sheets and of the part status.
- Support of Workflow, History, designer-group based access control, data reservation, ECO process and concurrent engineering.
- Interdepartmental and inter-site cooperation synchronized in PLM including mechanical design data, programmable logic association, electrical and harness design data, and software design.
- Optional support of electrical library and design usage in distributed engineering organisations.