Integrate®

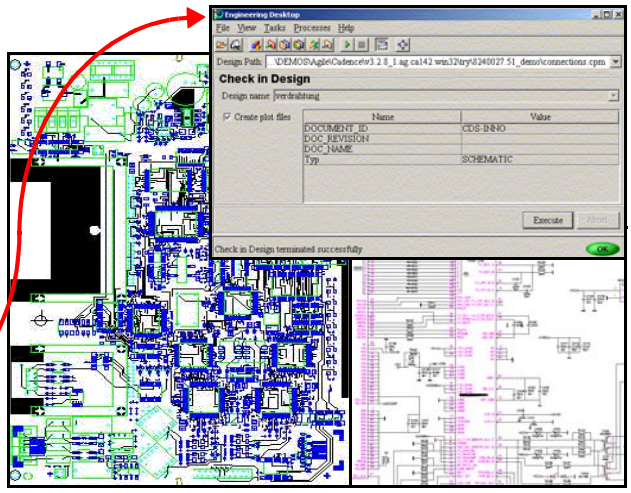
aras INNOVATOR®

with Product Lifecycle Management

You have invested all this knowledge into your Eagle system.
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 databases and processes in the company.



➥ You want Integrate

Operation

You operate the Integrate functions from the Integrate Java® IUI. Integrate establishes the communication between your Eagle design tools and the PLM system.

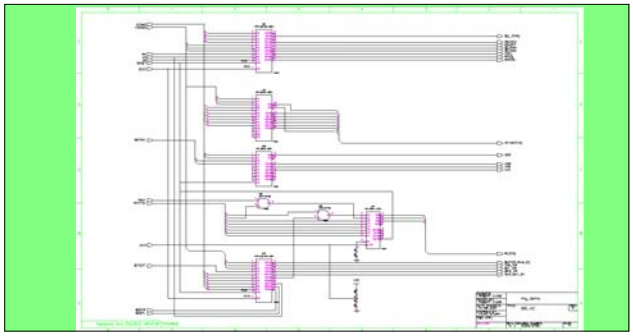
Synchronize Metadata

Synchronize Metadata like part number and version once, at the begin of the design cycle with PLM.

Metadata	Metadata in Table Field	Field Type
Document No.	T_DOC_DAT.DOCUMENT_ID	S80
Revision	T_DOC_DAT.DOC_VERSION	S10
Version	T_DOC_DAT.DOC_REVISION	S10
Customer	T_DOC_DAT.SEC_CUSTOMER	S20

Check-in

Update the drawing border text field with metadata. Check an innovation container with your design into PLM for ECO. Create a PDF plot of all schematic pages and check it in as well.



Redesign

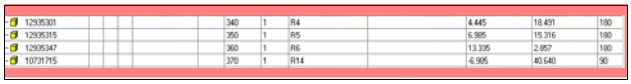
Resolve the design for ECO or re-use from an innovation container in PLM into the Eagle Design environment for immediate use, with optional reservation and increase of revision of the design in PLM.

Get

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

BOM

Extract preliminary Bill-of-Materials data after packaging into PLM for advance material disposition. Update the BOM in PLM after PCB Layout with associated accessory parts like sockets, heatsinks and firmware.



Automatic support of your companie's BOM structure including variant Bill-of-Materials from the Eagle design. The BOM in PLM hast two tables: quantity BOM and reference view with x, y, rot, and side.

Board Fabrication

Build and check-in a versioned container of Gerber and Excellon data for the manufacture of the bare PCB or panel. The data then might be accessed via a password-protected web client by your PCB manufacturer.

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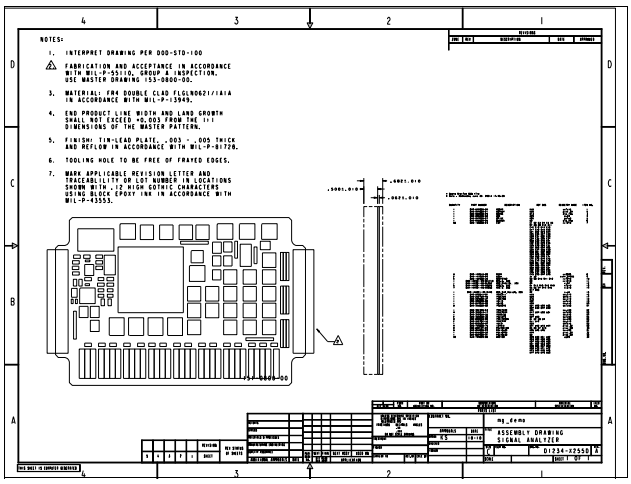
Board Assembly

Deposit versioned data for the assembly of the board in PLM such as top and bottom assembly plots and control files for the assembly machines in PLM.



Publish Parts

Capture classified electronic component descriptions in PLM including release state and data sheet and then synchronize the items with the part descriptions in the Eagle parts database.

bom_back

Review and optionally back annotate legal Bill-of-Material changes from PLM into Eagle Schematics.

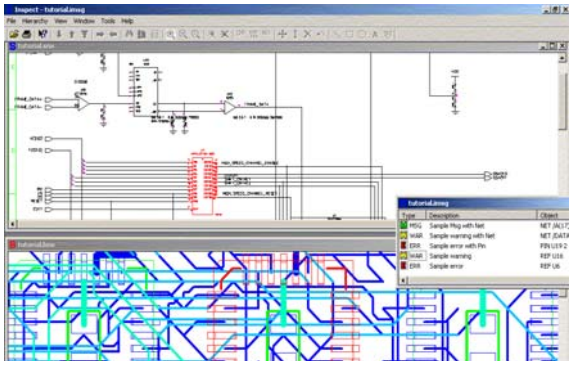
Adaptability

There is a host of features which distinguish your company processes from other companie's, ranging from fundamental topics like part number format and BOM sorting sequence to the automatic extraction of variant assembly plots.

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

Spotlights on some Features

- Firmware and assembly variants: Interactively selectable variant Bill-of-Materials, schematic plots and assembly plots.
- **BOM**: support accessory part association with in-circuit programs as pre-programmed devices, multi_level definition of sequence of parts, creation of manufacturing BOMs which optionally include assembly line management data.
- **meta4plot**: update of metadata in drawing frames of plots triggered by a state change in PLM. E.g.: checked by, date and released by date.
- **Publish Parts**: electronic item synchronisation from PLM into the Eagle parts database with optional display of associated data sheets. Optional function **Import Parts** to create preliminary classified electronic items in PLM from the EDA library.
- Support of Workflow, History, designer-group based access control, data reservation, ECO process and concurrent engineering.
- Interdepartmental cooperation synchronized in PLM with mechanical design data, programmable logic association, electrical and harness design data, software design.
- Optionally integrated operation with an advanced viewing and analysis tool for schematics and PCB data.



- Optional support of concurrent design in distributed engineering organisations.
- Monitor the design progress by grading the design process for cost, MTBF, or multi-suppliers.