

# MCAD/ECAD Integrations and Implementation Services for Oracle Agile PLM



## MCAD Integrations for Oracle Agile A9

As an Oracle certified partner xPLM Solution now offers a next generation of CAD integrations for Oracle Agile PLM. MCAD connectors offer CAD users an effective and intuitive integration with Oracle Agile PLM. Data and structures of both CAD and PLM are integrated, providing the ability for bi-directional exchange of CAD files, documents, classification, BOM and much more.

J2xPLM-based CAD connectors provide control over CAD data with full support for release processing, easy PLM access for functions such as loading or saving of CAD data, high security through the use of robust PLM role and privilege functionality as well as automated bi-directional transfer of properties between CAD and PLM.

### Major Features of MCAD Connectors

**Loading from PLM:** Load can be initiated directly from the Agile web client, which then brings up a context-specific Load Preview dialog where the user can select various load options. Multiple structure resolutions are supported including "Latest In Work", "Latest Checked In", "Latest Released" and "As Saved". Loaded files can be inserted into the current CAD assembly or simply transferred to the local workspace.

**Saving into Agile** creates a Design Structure in Agile to manage all CAD files (parts, assemblies, drawings, etc.) supporting CAD work-in-progress design, and making data available to the rest of the organization, as privileges permit.

**BOM Publishing** is used to create or update Agile Product Structures based on CAD Design Structures.

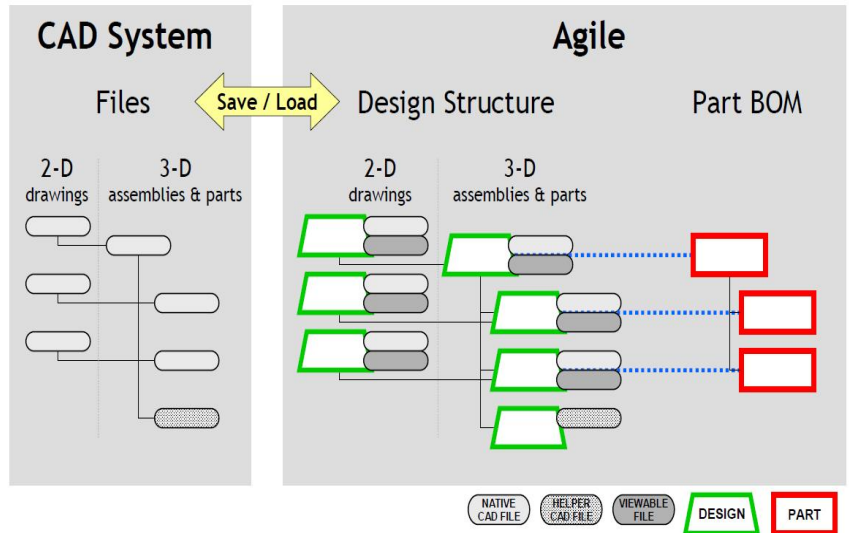
**Concurrent Engineering:** The Connector is designed to enable multiple designers to work at any one time on different portions of the same overall CAD assembly.

**Update of Properties:** Metadata and classification properties can be exchanged and updated bi-directionally. This enables, for example, the title blocks in drawings to be filled out.

**CAD Configurations:** Configuration templates and instances are both maintained within the design structure. Configuration specific structure and attributes are managed.

**Workspace Management** offers creation, setting, deletion, zipping and uploading of individual multi-level workspaces, which correspond to folder structures on the local disk.

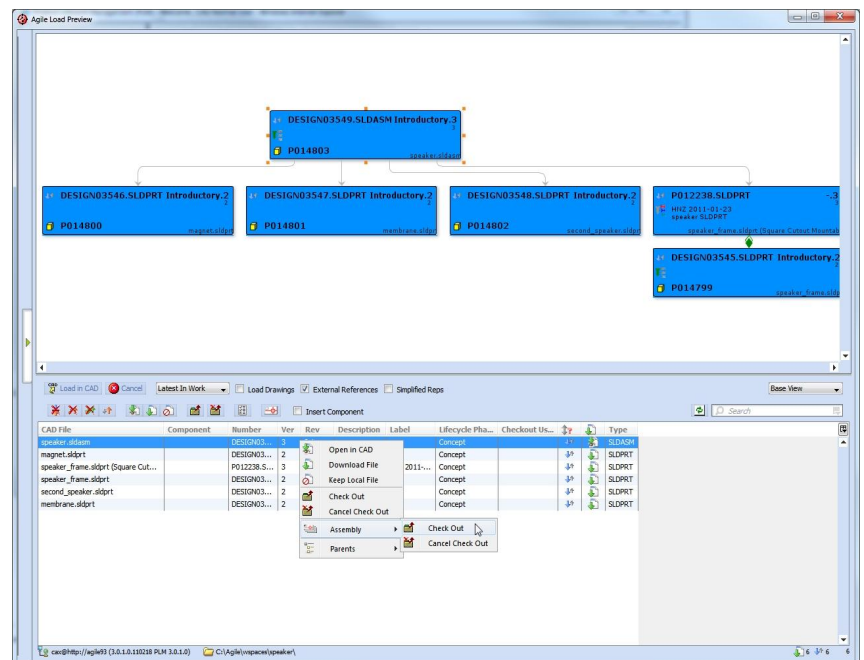
**Cad External Reference Information** are stored during the save process. Circular, bottoms-up and cross-references are also supported.



As part of the Agile Engineering Collaboration solution, this connector uses two PLM structures - the "Design Structure" for managing the CAD design files and the related "Part BOM" for representing the physical product. This provides full control over both CAD and product data.

### We provide connectors for MCAD, MS-Office and EDA solutions:

- |               |              |                                |
|---------------|--------------|--------------------------------|
| CATIA V4 & V5 | Pro/ENGINEER | Electric Design Applications   |
| Siemens NX    | Solid Edge   | Electronic Design Applications |
| SolidWorks    | AutoCAD      | Software Design Tools          |
| Inventor      | MS Office    |                                |



Load Preview Dialog with Multi-Select and Context Menus

## EDA Integrations for Oracle Agile PLM

The product suite **Integrate** provides industry leading integrations for the full suite of ECAD and Software development tools and extends the PLM solutions' ability to support a true management of mechatronic product structures.

- **PLM with Electric Design:** EDA-Cable-Harness integrates electric and harness capture tools with PLM.
- **PLM with Programmable Logic Systems:** EDA-Firmware integrates Programmable Logic Design tools for processor code design, PLD design, and FPGA design with PLM.
- **PLM with EDA Logic Capture:** EDA-Logic integrates EDA logic capture tools with PLM. EDA-Logic integrates the task of hierarchical design, file, and library management.
- **PLM with Printed Board Layout:** EDA-Layout integrates EDA-PCB-Layout tools. The EDA-Layout modules automate the task of module based PCB design and data management.
- **PLM and Software Design:** EDA-Software integrates software design systems based on the change management of source and executable code development with PLM.

### xPLM Solution, provides effective and intuitive Oracle PLM integrations for:

ELCAD, Eplan, Ruplan, Promis, Ecscad, ProPlan, E<sup>3</sup>series, Autocad, Electrical, Aucoplan, Engineering Base, Altium, Bartels, Cadence Design Systems, Mentor Graphics, OrCAD (Cadence), Pads (Mentor), Veribest, Zuken CR5000

## MS-Office Integration for Oracle Agile PLM

xPLM Solution provides an intuitive integration with MS-Office. Major features of the Office connector are:

- Save, Update, Search, Load, Check in/out of Office Documents (Word, Excel, PowerPoint, Project, Visio)
- Outlook e-mail registration including attachments in PLM
- Versioning and Revisioning via EC and integration with PLM change management (e.g. status net) via EC
- Bidirectional Update of Properties
- Management of structured Word documents (e.g. external references)
- Viewable file generation (e.g. PDF), file conversion (e.g. RTF).

## PLM Implementation Services for Oracle Agile PLM

### PLM Management and Implementation Consulting

- Analysis, definition and optimization of PLM processes
- PLM systems requirements development
- Configuration management consulting
- Data exchange and migration project consulting
- PLM system implementation strategy development
- Development of design specifications and statements of work



### Implementation

- Installation and customization of PLM systems and integration solutions
- Integration of PLM, ERP, CAD and Viewing applications
- Client specific applications development
- Client data transfer and migration



### Client Specific Support

- End user training, hotline support and onsite helpdesk support for production PLM solutions
- Resolution of system malfunctions and product enhancement

**About xPLM Solution:** xPLM Solution develops integration solutions between industry leading CAD, PLM, Data Exchange, DMU and ERP systems and provides deployment and support services to the PLM industry. Together with Oracle xPLM Solution established the "Joint Competency Center for CAD Integrations" (J2CI).



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