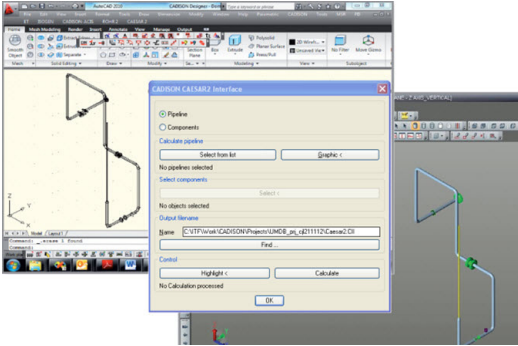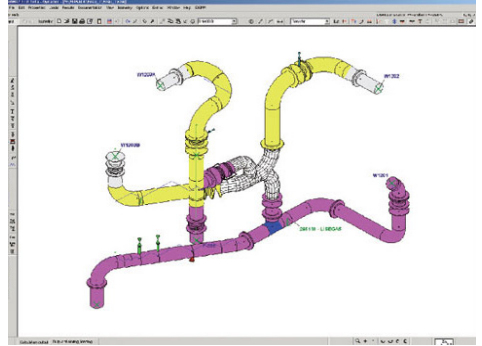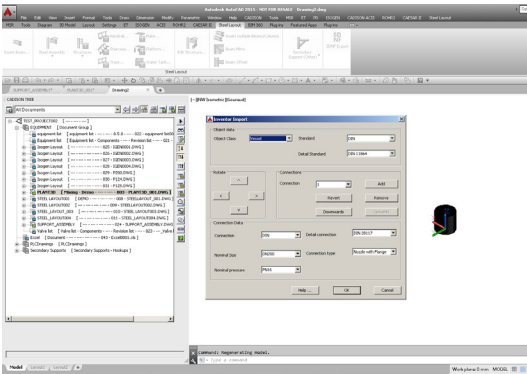# CADIS◆N® Interfaces

Interfaces and Integrations with Design, Analysis and ERP Systems
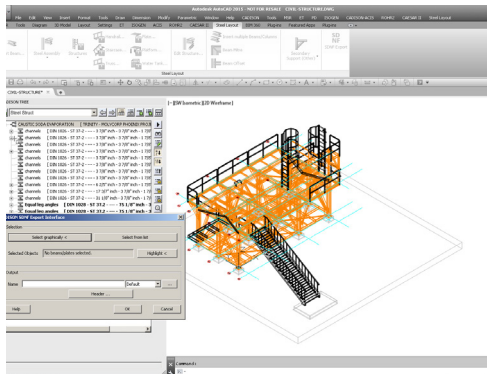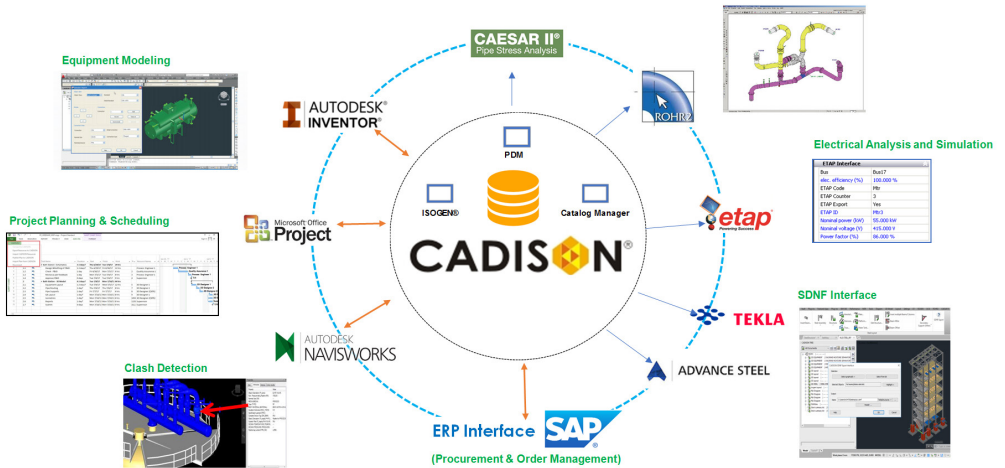

CAESAR II Interface

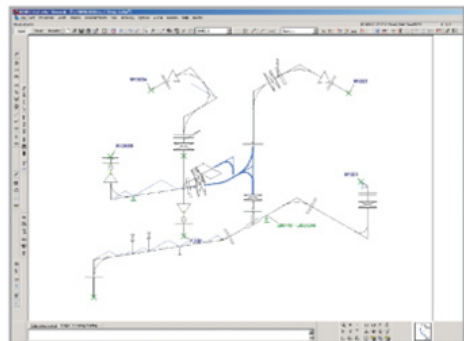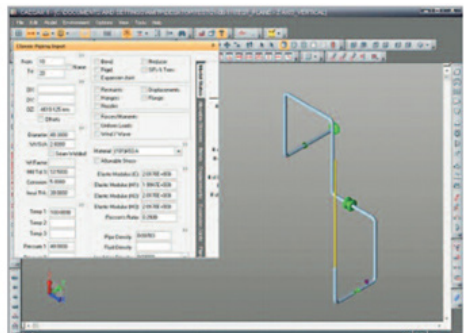ROHR2 Interface

Inventor Interface

SDNF Interface

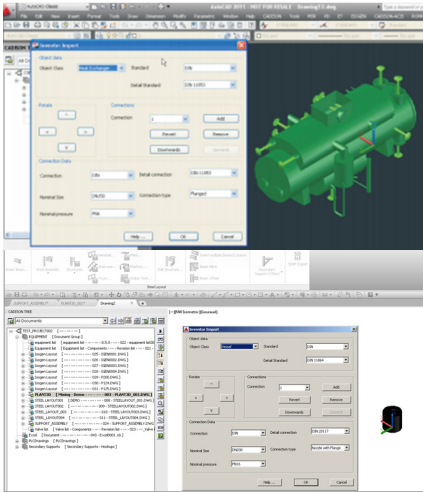*CADISON® creates cohesive workspace with external Interfaces & Interoperability for Better Integration*

CADIS**◆**N Interoperability for Collaborative Engineering

Equipment Modeling

Project Planning & Scheduling

Clash Detection

CAESAR II®
Pipe Stress Analysis

AUTODESK® INVENTOR®

Microsoft Office Project

AUTODESK NAVISWORKS

ISOGEN® PDM Catalog Manager

CADISON®

ROHR2

etap
Powering Success

Electrical Analysis and Simulation

ETAP Interface	
Bus	Bus17
elec. efficiency (%)	100.000 %
ETAP Code	Mtr
ETAP Counter	3
ETAP Export	Yes
ETAP ID	Mtr3
Nominal power (kW)	55.000 kW
Nominal voltage (V)	415.000 V
Power factor (%)	86.000 %

TEKLA

ADVANCE STEEL

SDNF Interface

ERP Interface SAP

(Procurement & Order Management)

Compatibility of piping with stress analysis software (CAESER II® & ROHR2):

- CADISON® provides interfaces with industry standard CAE software's – CAESER II & ROHR2 for quick and accurate analysis of piping system subjected to wide variety of loads
- It also considers weight, pressure, thermal, seismic and other static and dynamic conditions based-on User defined variables and accepted industry guidelines
- CADISON® - CAESAR II® Interface transmits all pipelines (with all information) designed in CADISON® 3D–Designer to CAESAR II® or ROHR 2 through cii file (neutral interface file) or NTR file (neutral interface file) for stress calculations
- Direct and complete data transmission of pipeline systems and components for calculation
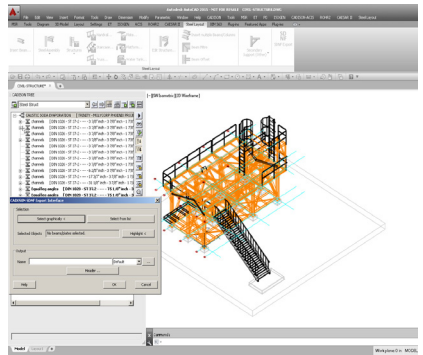- Avoids erroneous inputs, since no repeated data entry is required

Inventor Interface:

- 3D parts from Autodesk Inventor can be imported to CADISON 3D-Designer
- Add-on menu in Inventor will assist the users in exporting Inventor part or assembly file into SAT and XML format.
- Complex assemblies can be quickly and easily converted into CADISON
- Connection type "pipe with flange" is supported
- Free CADISON export Inventor plug-in is available for suppliers using the Inventor environment
- Search feature is available to display the list of all existing Inventor imported objects in a drawing
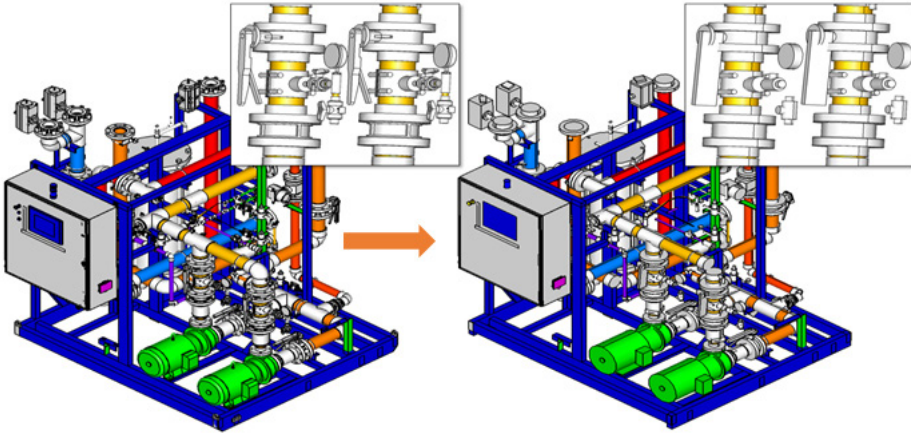
SDNF Interface:

- Users can select steel structures (graphically or from a list/tree) to export them to Tekla.
- An option to set 'Material Name', 'Profile Name' conversion in a configuration file enables user to map the materials and profiles (of different standards & types) in Tekla and CADISON® Steel Layout
- Extendable to other Structural tools such as Advance Steel SDS/2 etc.
- Configuration file maps Profiles & Material of different standards & types

Other Interfaces:

- CADISON Electrical Designer – ETAP (partial) interface for engineering analysis in ETAP (for e.g. Short-circuit analysis)
- CADISON® – MS Projects bi-directional interface allows the Users to import/export resources and task status in to MS-Projects and do the scheduling of the tasks, resource planning, etc.
- CADISON®Navisworks interface for visualization and clash detection. It allows the Users to export project model (along with attribute data) created in CADISON®
- CADISON® –ERP Integration: The bidirectional CADISON® ERP-Interface provides you with access to the known ERP systems like SAP, Movex, Infor and others for dynamic data exchange via an open ERP Interface.

CADISON Equipment Simplifier with data reduction algorithm for all mechanical modelers

CADISON® Equipment Simplifier is a customised wizard designed for the automatic simplification of large equipment models. It is a standalone product to reduce the file size(s) from different CAD formats with (interactive) manual or auto mode and export the results in DWG format to CADISON®.

CADISON Equipment Simplifier Supports:
Native CAD: CATIA | NX | Wildfire/Creo | Inventor | SolidWorks
Neutral Formats: IGES | STEP | ACIS SAT | Parasolid | DWG | STL | JT

Benefits

▎ CADISON Interfaces and Interoperability helps in creating collaborative workspace

▎ Supplements your existing investments and keep the Total Cost of Ownership (TCO) low

▎ Importing large Equipment models (in various formats) is possible with CADISON Equipment Simplifier

▎ Structural Layouts in SDNF formats helps contractors with right inputs for fabrication drawings

▎ Effective Clash detection (in Navisworks) along with access to object attributes

▎ Integration with Business Systems (ERP) ensures right procurement decisions