

CAD Conversion and Integration for the Marine Industry

WHAT YOU NEED: THE ABILITY TO REUSE CAD DATA

Are you a company in the shipbuilding or marine industry with a heterogeneous system landscape that is looking to reuse data from mechanical CAD systems in specialized shipbuilding applications like AVEVA Marine or CADMATIC and vice versa?

Do you want to deploy mechanical and specialized shipbuilding CAD systems side by side as well as exchange information between them for use as interfering edges and for clash analysis?

Are you looking to prevent the design intent in your models from being lost during conversion so that you will be able to reuse the converted data as native data?

Do you want to share design results with other disciplines and more efficiently manage the cross-system collaboration processes in a PDM context?

Are you facing the issue of how to reuse your digital data for downstream processes like production, procurement, ship classification, as well as maintenance, repair, and overhaul (MRO)?

OUR SOLUTION: CAD CONVERSION À LA CARTE

PROSTEP as a leading PLM consulting and software firm has many years of experience in the marine industry and knows what you need in the area of CAD conversion and PDM integration.

We prepare your mechanical CAD from CATIA V4/V5/V6 or Siemens NX so that it can be referenced and/or edited natively in intent-driven systems like AVEVA Marine and CADMATIC.

PROSTEP solution

YOUR
CAD/ CAM/ CAE - System





COMPLETE SHIP



DESIGN TRANSFER



PARAMETRIC CAD CONVERSION



PARTNER
CAD/ CAM/ CAE - System

Supported Environments:















The solutions we offer are able to detect feature information such as cutouts, chamfer, or topological connections contained in the geometry models and make it available to any CAD system as a native information.

Instead of converting the geometry, we can also cross-reference standard components in catalogues in the source and target system and re-create the geometry in the receiver system.

Our solution supports both fully parametric and purely geometric conversion, with the option to visually present the quality of the results.

HOW YOU BENEFIT: LOWER ENGINEERING COSTS

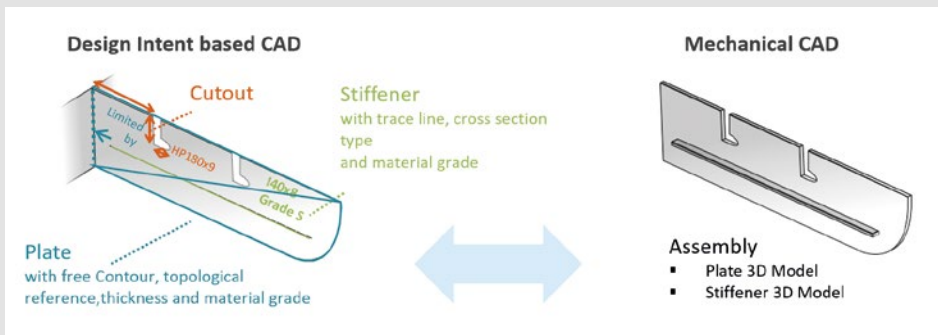
By reusing data, you are able to reduce your engineering costs, regardless of whether the data was generated using mechanical or shipbuilding CAD systems.

By keeping the design intent intact, including all parameters, topological references, attributes, and classification properties, it is possible to gain top quality data during conversion.

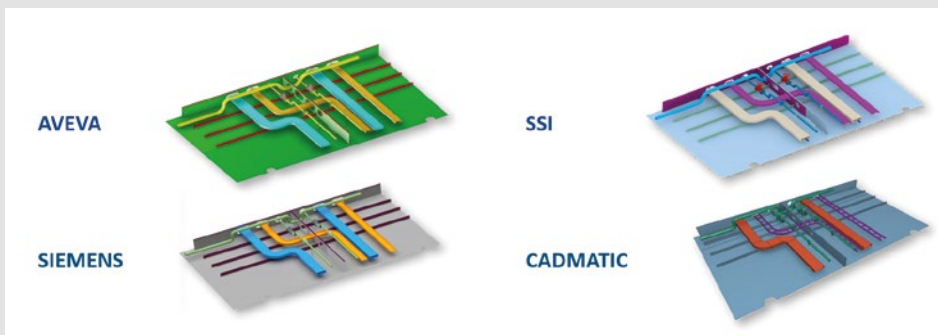
The conversion results are reproducible and transparent, making it possible to expand the solutions as required step by step, from the exchange of reference geometries to round trip engineering in a heterogeneous CAD environment.

You are able to reduce delivery times and establish the conditions necessary for end-to-end, cross-system digitalization of engineering, production, classification, and operational processes.

You benefit from our experience in CAD conversion and PDM integration gained working with reference customers such as thyssenkrupp Marine Systems, Meyer Group, Lürssen Group, and DNV GL.



Transition between shipbuilding and mechanical CAD.



The same model as native data for each CAD system.

DO YOU HAVE QUESTIONS
ABOUT CAD CONVERSION AND INTEGRATION?

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