



# OPENPDM<sup>®</sup> SHIP

## Enabling the Digital Thread in Shipbuilding and Shipping

### WHAT YOU NEED: LEVERAGE YOUR DIGITAL DATA

Are you a company in the marine & off-shore industry with a heterogeneous system landscape that wants to digitalize its business processes and information flows based on a consistent digital ship model?

Are you looking to reuse data from mechanical CAD systems in specialized shipbuilding applications like AVEVA Marine, CADMATIC, NAPA or ShipConstructor and vice versa, without losing topological and feature information during conversion?

Do you want to deploy mechanical and specialized shipbuilding CAD systems side by side as well as exchange model information between them for clash analysis and the generation of penetration requests?

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

Are you facing the issue of how to deliver your digital data to downstream processes like production, procurement and ship classification or to support maintenance, repair, and overhaul (MRO) with a Digital Twin?

### OUR SOLUTION: OpenPDM SHIP

PROSTEP is a leading PLM consulting and software firm with many years of experience in the marine industry. We understand your needs in the area of digitalization and digital transformation.

OpenPDM SHIP is our integration platform for the marine industry. It supports the

entire ship lifecycle from initial design to operations, enabling information flow and traceability across a variety of authoring and management systems building the digital shipmodel.

### OpenPDM SHIP Tool Coverage



OpenPDM SHIP's standard-based connectors prepare models from mechanical CAD systems like CATIA or Siemens NX, so that they can be referenced and/or edited natively in design intent-driven systems like AVEVA Marine and CADMATIC.

OpenPDM SHIP supports end-to-end digitalization of CAx processes combining different shipbuilding-specific applications

like NAPA Steel, AVEVA Marine, CADMATIC or ShipConstructor and NESTIX.

OpenPDM SHIP connects mechanical CAD and shipbuilding specific applications with common PDM/PLM and ERP systems, enabling companies to merge their CAx data into a digital ship model and navigate it through the whole lifecycle thereby enabling a best-in-class strategy for companies.

**HOW YOU BENEFIT:  
FASTER SHIP DELIVERY**

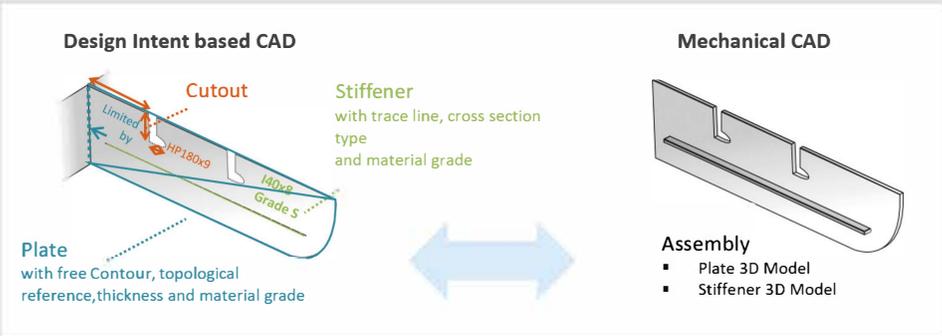
Using best-in-class tools for the multiple tasks in ship design and manufacturing engineering, you can speed up the delivery times and integrate suppliers more easily.

By reusing data without losing the design intent, you can reduce engineering costs, regardless of whether the data was generated using mechanical or shipbuilding CAD systems.

Reproducible, top quality conversion results make it possible to expand the solutions step by step, from the exchange of reference geometries to round trip engineering in a heterogeneous CAD environment.

By connecting the digital ship model and its Digital Twin, you can establish the necessary conditions 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, MV Shipyards, Keppel Fels, ULSTEIN, HYUNDAI and DNV GL.



Transition between shipbuilding and mechanical CAD.



The same model as native data for each CAD system.

**DO YOU HAVE QUESTIONS  
ABOUT HOW TO REALIZE THE DIGITAL THREAD?**

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