

## IntelliShip®



### CHANGING THE WAY SHIPS ARE ENGINEERED AND DESIGNED

IntelliShip® is the most advanced shipbuilding design software offered in two decades. It is Intergraph's next-generation, data-centric, rule-driven solution for streamlining shipbuilding design processes while preserving existing data and making it more usable/re-usable. IntelliShip is a complementary, full-suite solution that provides all the capabilities needed to design and build a ship.

IntelliShip comprehensively addresses the ship life cycle. IntelliShip provides a full range of flexible ship design, production, and life cycle management capabilities within a single integrated environment. It helps shipbuilders with better decision support capabilities to facilitate global design, production, and life cycle optimization – ultimately making the shipyard more competitive.

IntelliShip is a forward-looking product that will forever change the way ships are engineered and designed. It breaks through the constraints imposed by traditional design technology. Rather than focusing on simply achieving design, IntelliShip effectively enables optimized design, increasing productivity and shortening project schedules.

### PROVIDING A COMPETITIVE EDGE

IntelliShip's advanced scalability and modular design will allow shipyards of any size to configure the exact type of system that meets their workflow and workload requirements.

The IntelliShip product will:

- Streamline shipbuilding processes
- Lower manpower and material costs
- Reduce the time to design and construct world-class vessels
- Introduce production flexibility features yet unknown in traditional 3D ship design systems

- Meet the challenge faced by more and more shipyards – distributed, multi-site design and production of ships
- Provide for better integration with complementary work processes and computer systems at the shipyard
- Bridge early design with detailed design and production

Projected to become the cornerstone for next-generation shipbuilding practices in design, construction, and management, IntelliShip will render traditional shipbuilding software technologies obsolete. It will provide shipbuilders with the capabilities they need to gain and maintain an edge in a highly competitive industry. IntelliShip offers shipbuilders a competitive advantage by providing:

- **A full multidiscipline design environment.** IntelliShip provides a true multidiscipline design environment where all designs are fully visible to all parties at any one time.
- **Unparalleled ease of use.** IntelliShip's ease of use reduces the learning curve for new users, widens the user base, and increases productivity. It speeds up the design process by reducing the number of keystrokes and mouse-clicks required to perform design tasks.
- **Shortened project schedules.** IntelliShip is capable of both early and detailed design. It enables streamlined design processes, eliminating rework and time-intensive manual checking, shortening project schedules.
- **Global, concurrent engineering.** IntelliShip allows ship designers, shipyards, subcontractors/suppliers, authorities, and others to manage and execute projects across company borders easily and effectively. Its global engineering and data re-use capabilities substantially reduce cost and shorten project schedules, while providing a wider range of users with valuable product model information.

- **Managing deliverables.** Automated drawings and reports reduce the cost of design and provide accurate, up-to-date documentation of the design at any time.
- **Integrated solutions.** IntelliShip integrates with complementary Intergraph products such as SmartPlant® Instrumentation for instrumentation and SmartPlant P&ID via SmartPlant Enterprise, creating an optimal workflow throughout your enterprise. Your own legacy systems may be integrated by means of SmartPlant adapters.
- **Knowledge management.** Capturing new and existing design knowledge so that it can be saved and re-used in the future is the key to success in today's competitive global economy. IntelliShip preserves your corporate knowledge, and provides for continuity and design innovation. It preserves the integrity of design data and enables re-use for future projects based on existing designs.

Across disciplines and/or across the world, IntelliShip provides all the tools you need to prosper in a highly competitive, dynamic, and concurrent ship design and manufacturing environment.

## EASE OF USE BOOSTS PRODUCTIVITY

IntelliShip helps boost productivity because it is easy to use – you don't have to be a CAD specialist to use IntelliShip. Its familiar Microsoft Windows® interface encourages users to “test and explore” the software, and reduces the learning curve. IntelliShip reduces the number of keystrokes and mouse-clicks required to perform a task, speeding up the design process. It includes “mini-wizards” that easily guide the user through design steps.

## INTELLISHIP SHORTENS PROJECT SCHEDULES

IntelliShip is the ideal tool for the shipyard to use on projects of all sizes and complexities – design costs are reduced, and project schedules are shortened (accomplishing distributed design and manufacturing, and supporting a transformation of the project team) to allow more multidiscipline work by a single engineer. The capabilities provided by IntelliShip streamline and compress the

entire design process, which, in turn, reduces project schedules. These capabilities include:

- **Design rules**, which increase data quality, ensure design integrity, and contribute to a level of automation for design and production unmatched by any other available ship design and production system.
- **Hull and outfitting interference checking**, which provides consistent management of change and enables interferences to be resolved at the most cost-effective time – the moment they are created.
- **Advanced component and detailing catalogs**, which allow pre-configuration of manufacturing equipment characteristics to the particular detail, thus enabling full freedom in choosing shop fabrication lines for hull and outfitting without redesign.
- **Automation of routine tasks**, i.e., customized rules drive the detailing of structural plates and profiles; placing of stiffener end-cuts; definition of stiffener penetrations, seam cutouts, notches, etc.; and the determination of weld details, based on the geometry of the connection.
- **Automated drawing generation capabilities**, which reduce the cost of design and provide accurate, up-to-date documentation of the design at any time.

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## ABOUT INTERGRAPH

Intergraph Corporation is the leading global provider of spatial information management (SIM) software. Security organizations, businesses and governments in more than 60 countries rely on the company's spatial technology and services to make better and faster operational decisions. Intergraph's customers organize vast amounts of complex data into understandable visual representations, creating intelligent maps, managing assets, building and operating better

plants and ships, and protecting critical infrastructure and millions of people around the world.

For more information, visit [www.intergraph.com](http://www.intergraph.com).

