

## **Bureau Veritas Selects Dassault Systèmes’ “Designed for Sea” Industry Solution Experience to Accelerate Ship Structure Calculations**

### ***Digital Design, Modeling and Collaboration for Compliant Ships***

**VELIZY-VILLACOUBLAY, France and HAMBURG, Germany — September 6, 2016 —** [Dassault Systèmes](#) (Euronext Paris: #13065, DSY.PA), the 3DEXPERIENCE Company, world leader in 3D design software, 3D Digital Mock Up and Product Lifecycle Management (PLM) solutions, today announced that [Bureau Veritas](#), a global leader in testing, inspection and certification for industries including marine and offshore, has selected its “[Designed for Sea](#)” industry solution experience to accelerate ship structure modeling and calculations that help customers comply with new regulations and optimize their ship designs.

Based on the 3DEXPERIENCE platform, “Designed for Sea” combines powerful virtual design, modeling and collaboration applications that enable Bureau Veritas to quickly create a 3D structural model of a complex ship hull prior to its construction. Bureau Veritas can then use this to evaluate and precisely calculate a hull’s optimal structure in a shorter amount of time, which can then serve as a master geometric reference for other shipbuilding certification processes.

The necessary thickness of a hull depends on criteria such as a ship’s length, speed and navigational zone. It must also comply with the [International Association of Classification Societies’](#) new Common Structural Rules that went into effect in July 2015 to improve the safety and reliability of ship structures.

With “Designed for Sea,” requirements, regulations, project planning, design and engineering teams are connected with full traceability, throughout the design process. Real-time 3D simulation and analysis applications also let Bureau Veritas experiment with alternative design scenarios in the early design phase to reduce costly, time-consuming rework later on in the process.

“Following a rigorous selection process in which we assessed all market solutions covering marine design aspects, we chose ‘Designed for Sea’ because of its high level of marine structure design productivity, high quality and automation of structural mesh,” said Jean-François Segrétain, Marine Technical Director, Bureau Veritas. “The efficiency and capacity for customization and openness on the 3DEXPERIENCE platform exceed our expectations for performance and precision. We can now create complex hull structures and reduce this design cycle time from five to two weeks. This helps us quickly calculate the formulae and criteria needed to reassure future ship owners that their vessel will be compliant and present a high level of solidity in extreme weather conditions.”

“In an industry highly dependent on quality, safety and sustainability, the 3DEXPERIENCE platform addresses the design needs of traditional shipyards as well as marine specialists,” said

Alain Houard, Vice President, Marine & Offshore Industry, Dassault Systèmes. “Prestigious classification societies like Bureau Veritas operate based on their combination of high-value services, worldwide agility, reputation and connected ecosystem. In a virtual environment, Bureau Veritas can enhance these business values and let customers experience the benefits.”

At this year’s [SMM Hamburg](#) from September 6-9, Dassault Systèmes is exhibiting in Hall B2, Upper Floor, Stand 103.2, and Bureau Veritas in Hall B3, Ground Floor, Stand 101.

For more information on Dassault Systèmes’ industry solution experiences for the Marine & Offshore Industry, please visit <http://www.3ds.com/industries/marine-offshore/>

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#### **About Dassault Systèmes**

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes’ collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 210,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).

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