

Dassault Systèmes Launches the “Design for Fabrication” Industry Solution Experience for Architecture, Engineering & Construction

Cloud Collaboration from Design to Fabrication to Solve Problems Ahead of Construction

VELIZY-VILLACOUBLAY, France — October 13, 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 the launch of the “[Design for Fabrication](#)” industry solution experience for architecture, engineering and construction (AEC). Architects, engineers, contractors, fabricators and building products manufacturers now have access to a digital, collaborative environment on the cloud for civil and building projects, from concept through fabrication detail with shop floors that reduces waste and rework.

Each architecture, engineering and construction project brings together new teams of designers, fabricators and contractors who use their own building information modeling (BIM) solutions. The detailed information created in an initial design model might not reflect a fabricator’s needs, and must still be converted into usable shop drawings. These fragmented solutions and lack of data continuity can lead to project delays and construction waste at levels of more than 25 percent due to redundant engineering, inefficient use of materials, idle labor, and rework.

Based on Dassault Systèmes’ 3DEXPERIENCE platform, the “[Design for Fabrication](#)” industry solution experience provides end-to-end, collaborative BIM for design through fabrication of any building, structure or building element including bridges, tunnels, industrial buildings, high-rise buildings, concrete and steel frames, precast concrete, building façades, as well as building system elements of any scale, from single occupant to campus and city infrastructures.

With this solution, design and fabrication teams have simultaneous, real-time access to project data in the context of the 3D model. They can work from the same design models and leverage the insight of experts in the supply chain to create more informed designs, reduce later rework, and more accurately predict project costs and timelines.

“We use the 3DEXPERIENCE platform to perform multiple tasks in a single environment, optimize workflows and save time—from modeling and coordinating all building systems of large and complex projects in one 3D model, to developing detailed simulations of construction processes and generating data outputs for prefabrication of mass timber, steel, mechanical, electrical and plumbing systems,” said Javier Glatt, CEO, CadMakers Virtual Construction. “We believe the 3DEXPERIENCE platform may be the most powerful solution available to the AEC industry.”

“While BIM usage has gradually improved design coordination and construction coordination independently, there remains a lack of continuity between design data and the fabrication model for the shop floor,” said Marty Doscher, Vice President, Architecture, Engineering & Construction Industry, Dassault Systèmes. “The 3DEXPERIENCE platform bridges the gap between designers and fabricators.

By adopting seamless collaborative processes that connect people and data from start to finish, multiple project stakeholders can create efficiencies, realize significant savings in time and money, and improve the quality of project delivery.”

Specifically, “Design for Fabrication” solves several AEC business challenges including:

- **Design anything:** Comprehensive design and simulation capabilities for any building, structure, building element, or object from the conceptual level down to the fasteners, with the scalability of the cloud.
- **Deliver higher performing buildings to delight customers:** Save time, limit dead ends, validate requirements, and lower lifecycle operating costs.
- **Design for manufacturing and assembly:** Achieve project control and reduce waste by extending models. Use integrative, parametric, associative, and computational modeling methods to increase productivity and optimize project value through iterative design.
- **Improve collaboration:** Multi-BIM approach to project development using a data-centric collaborative environment with a single 3D version of the truth. “Same page” authoring tools scale to huge amounts of data to coordinate the whole supply chain.

For more information on Dassault Systèmes’ AEC industry solution experiences, visit: <http://www.3ds.com/industries/architecture-engineering-construction/>

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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.

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