

ARCHITECTURE, ENGINEERING & CONSTRUCTION SYSTEMS DESIGN FOR FABRICATION

Connect your systems data from concept through fabrication



BE THE BEST AT YOUR TRADE

When MEP and critical systems are not coordinated in design, system rework is nearly a guarantee. Budget overruns commonly arise from the need to move installed systems to accommodate later additions.

Collaboration from design through system engineering can instantly identify and resolve conflicts, reduce clashes, and eliminate rework. This in turn improves site logistics, reduces project costs, and leads to advanced delivery.

To meet owners' demands for cost and delivery savings, more projects are turning to prefabricated elements that can be installed at once.

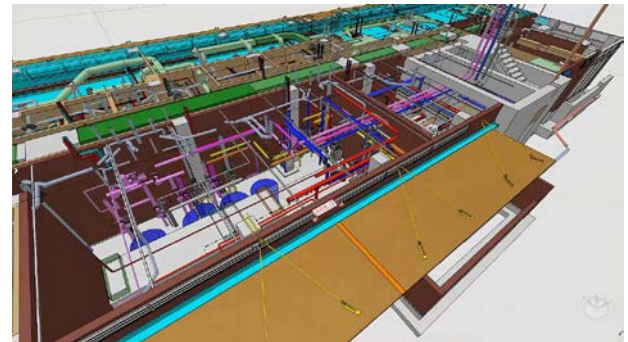
Systems designers and engineers are looking for new solutions to take work off the site while easing installation logistics.

AN END-TO-END SOLUTION FOR MEP SYSTEMS DESIGNERS, ENGINEERS, AND FABRICATORS

The **Systems Design for Fabrication** Industry Process Experience, built on the cloud-based collaborative **3DEXPERIENCE**® platform, efficiently and consistently covers project requirements end-to-end: from planning and design to fabrication and execution.

Plan, model, and simulate any building system element for any scale of project from single occupant to campus and city infrastructure. Design modular plants and runs to reduce field clash and schedule.

Use integrative, parametric, associative, and computational modeling methods to increase productivity and optimize project value through iterative design.



Plumbing model.

Systems Design for Fabrication promotes a highly collaborative approach linking appropriate technologies. Combine talent, technique, and technology to deliver high performance, value, and efficiency while reducing waste and embodied energy.

KEY BENEFITS OF SYSTEMS DESIGN FOR FABRICATION

The capability to design anything

Comprehensive, template-driven parametric modeling capabilities in steel and concrete.

Design for manufacturing and assembly

Achieve total project control. Reduce waste and rework by extending models into manufacturing and assembly.

Single 3D version of the truth

"Same page" authoring tools scale to huge amounts of data, enabling coordination across all stakeholders.

The power of 3DEXPERIENCE

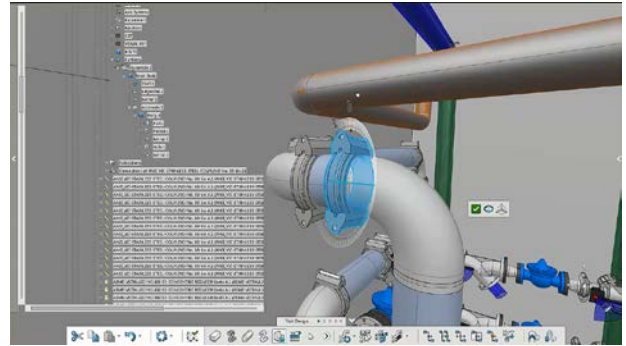
A multi-BIM approach to project development using a truly collaborative, data-centric environment. Enable simultaneous, real-time access to project data and design models across multi-disciplinary stakeholders. Integrate multiple CAD and BIM formats and data sources with the Dassault Systèmes AEC Data Model.

IN SUMMARY

Use collaborative technology to increase system prefabrication capabilities while improving installation and site logistics. Resolve clashes and conflicts before systems arrive onsite.

Use lessons learned from other industries—including automotive, aerospace, and manufacturing—on how collaborative, integrative design can boost efficiency across the project lifecycle.

Gain significant competitive advantages from concept through fabrication with **Systems Design for Fabrication**.



Plumbing design with knowledge.

Our 3DEXPERIENCE platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

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.



Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan