



SAMSUNG SDS Nexplant 3D eXcellence

A collaboration platform facilitates 3D data use on site

Nexplant 3D eXcellence converts, integrates and visualizes various formats of 3D design data, as well as drives Digital Twin-based manufacturing innovation through combining IoT, production, construction and operation data with 3D data.

Exchange

30+ CAD formats are available for MFG, AEC and other industries. High performance data conversion facilitates easy data sharing and use across multiple devices.

Integration

Support to connect 3D design data with business data (ERP and/or SCM), and combine 3D data with IoT data to build a Digital Twin of the company.

Visualization

Provides rapid visualization with high performance ultra-lightweight streaming even for large data and an environment where VR-AR can be easily utilized.

*MFG : Manufacturing

*AEC : Architecture, Engineering & Construction

Use Case – Web Visualizer



Rendering

You can view 3D models on the web or mobile, and 2 types of rendering (SSR, CSR) are available. Streaming service allows you to combine multiple 3D models on one screen quickly & safely.

- *SSR : Server Side Rendering
- *CSR : Client Side Rendering

Viewer (Web/Mobile)

3D models in various formats are displayed quickly, and detailed structure and part property information are provided. Also, various view functions such as Zoom in-out, Pan, Fit, Exploded, and Walkthrough are available.

Collaboration tools

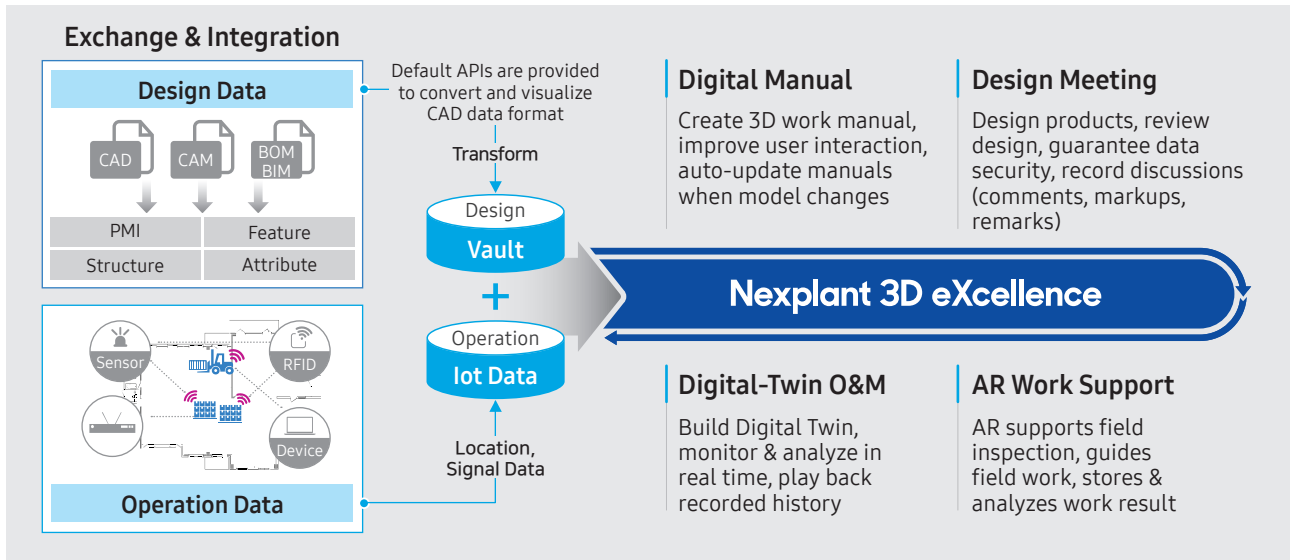
You can communicate effectively by using basic functions for design review (Measure, Section, Mate, Market-up, Annotation) as well as by writing comments on 3D models. If you click a saved comment, the captured scene of 3D model is displayed.

Web Visualizer Differentiators

- You can view 3D models lightly and quickly on the web or mobile, and combine multiple 3D models on one screen.
- Using an open API, you can easily implement a custom application system that utilizes your legacy data.

30+ CAD formats	High performance visualization	Track/ manage review history
Ultra-lightweight streaming	Measure/ Section/ Mate	Fit/Explode/ Walkthrough view
Markup/ Annotation	Comments & Play back	Web/ mobile environments

3D eXcellence Service Structure



Benefits

High data compatibility

Support 30+ CAD formats in MFG/AEC/other industries.

Interface with legacy system

Easily and freely interface with legacy data and customize your own service.

Outstanding visualization technology

Visualize ultra-lightweight streaming data without exposing raw data.

Functional scalability

A diverse range of services are provided on a single platform whose functions are easily scalable.

Requirements (Recommended Specifications)

Server	CPU	Quad Core or above
	Memory	16GB (minimum)
	Graphics	NVIDIA Geforce GTX/RTX or GRID GPUs
	OS	CentOS 7.x or above

Client	CPU	Intel® Core™ i7 CPU 2.20GHz or above
	Memory	16GB (minimum)
	Graphics	NVIDIA Geforce GTX/RTX or GRID GPUs
	Browser	Chrome

FOR MORE INFORMATION

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