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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.
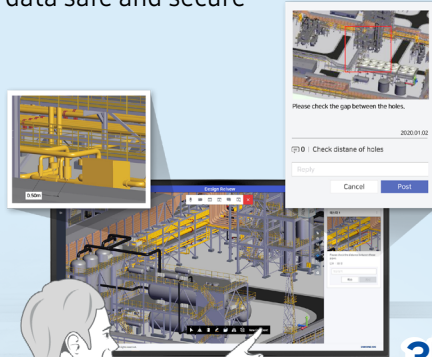
*MFG : Manufacturing
*AEC : Architecture, Engineering & Construction
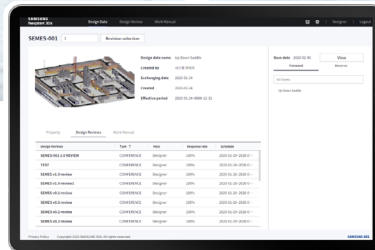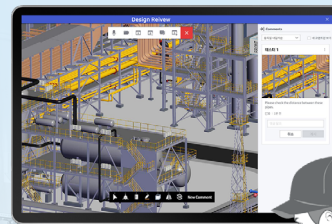
Use Case – Design Meeting

Remote, multi-party design review

Streaming-based secure collaboration environment enables multi-party web conference for 3D design review while keeping your data safe and secure

Easy access and use on mobile devices

No need for file downloading or dedicated SW. All you need is a mobile device in your hand. Review and use up-to-date 3D data on the shop floor for your various needs

3D eXcellence
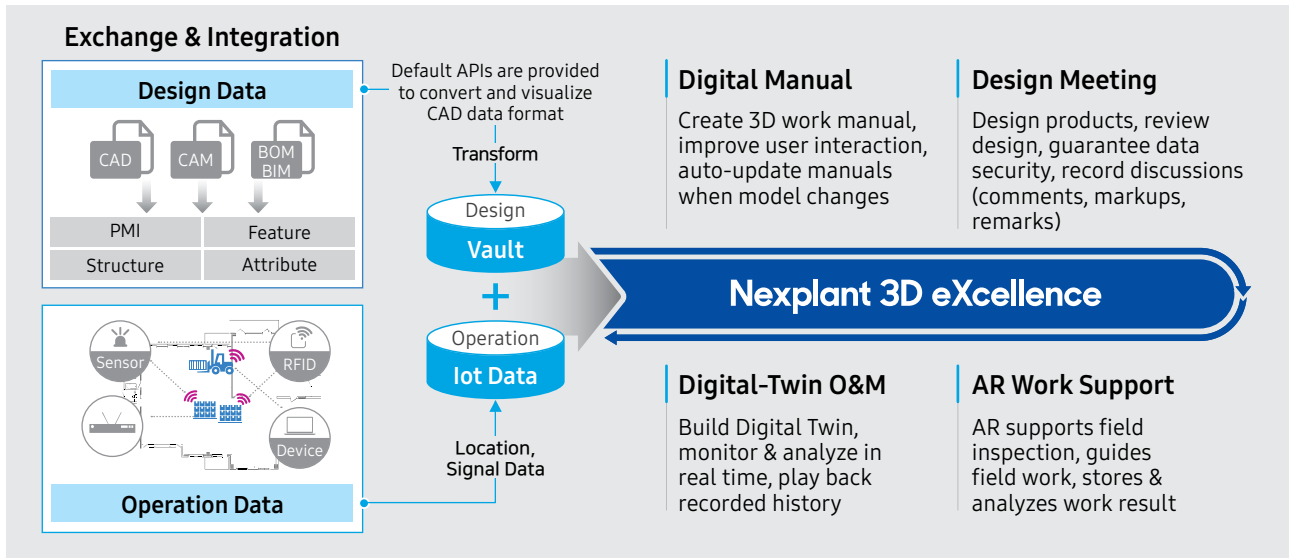
Assetization of collaboration history

Manage the review history by connecting with 3D CAD data.
Record snapshot comments & ideas
brought up during design discussion.
Archive them as asset for future use

Design Meeting Differentiators

· 30+ CAD formats are available for MFG, AEC and other industries.

· Ultra-lightweight steaming quickly visualizes large volumes of 3D data and helps you use the data easily on Web/mobile.

30+ CAD formats	High performance visualization	Track/manage review history
Ultra-lightweight streaming	Multi-party conference	Voice/video/text chats
Markups	Comments	Web/mobile environments

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3D eXellence Service Structure

Exchange & Integration

Design Data

CAD | CAM | BOM BIM

PMI | Feature
Structure | Attribute

Default APIs are provided to convert and visualize CAD data format

Transform

Design
Vault

+

Operation
Iot Data

Sensor | RFID
Device

Operation Data

Location, Signal Data

Nexplant 3D eXcellence

Digital Manual
Create 3D work manual, improve user interaction, auto-update manuals when model changes

Design Meeting
Design products, review design, guarantee data security, record discussions (comments, markups, remarks)

Digital-Twin O&M
Build Digital Twin, monitor & analyze in real time, play back recorded history

AR Work Support
AR supports field inspection, guides field work, stores & analyzes work result

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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