



# 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 – Digital Product



**Digital Learning for Field Service Engineers**

Without having a physical sample, engineers can study product structure with a digital sample. Process explained by 3D Work Manual is easier-to-understand-and-follow than that of 2D manual

**Online Training (No-Contact)**

Online training is available no matter where/when you work. Just click the Work Manual you want to read on the web site, and use it instantly for both current and upcoming models

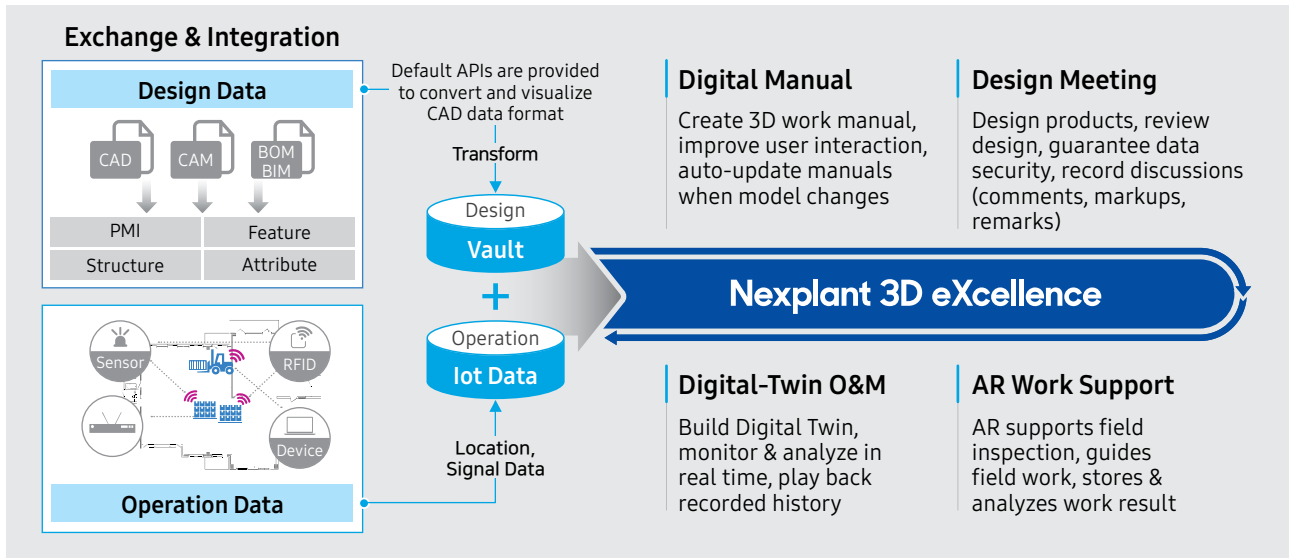
## Digital Product Differentiators

- Simply open a web browser for quick and easy use of 3D data in numerous environments e.g. assembly line monitors, field workers' mobile devices, etc.
- Unlike typical videos, 3D digital manual's Play Back feature enables zoom in/out and gets you greater details of 3D model structure
- A digital manual authoring tool assigns tasks by phase to manage seamless workflow, helping you create easy-to-understand manuals.

|  |                         |
|--|-------------------------|
| Zoom In & Out                          | Manage parts by level   |
| Write digital manual w/ 3D CAD data    | a Hide Parts feature    |
| Assign work by phase                   | Add Text/Image          |
| Auto-update manual when design changes | 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

**SAMSUNG SDS**



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