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3D PRODUCT ARCHITECT

OBJECTIVE

3D Product Architect enables users to create or modify MultiCAD product structures without the use of design tools. Overall, being able to digitally mockup proposed changes via the web ultimately reduces design iterations and makes review available to many more people in the product development process.

DASSAULT SYSTEMES

Highlights:

- Visualize, explore and edit multi-CAD product structures within a web-browser
- Easily navigate product structures to visualize designs and related changes
- Create web-based 3D digital mockups and conduct design reviews
- Modify product structures under the governance of a change process
- Implement design changes in accordance with specific product configurations
- Build mockup sessions to load into design through volume query
- Measure and section 3D for quick analysis
- Compare revisions and duplications of products to highlight changed areas
- Explore related objects and load specific products in the context of a full assembly

OVERVIEW

3D Product Architect enables users to digitally mockup requested changes to understand what impact the change may have before implementing in the product, reducing overall development time

3D Product Architect is mobile and cloud ready which means other architects in the development process, anywhere can collaborate and provide input to product improvements

3D Product Architect is full 3D, MultiCAD visualization so as changes are made to the product which may consist of several systems that were designed by several design tools, the entire product can be seen and worked with in a single context providing a complete view of the product

3D Product Architect enables users to perform volume queries on very large designs to build sessions to load into their design tool which results in greater performance by only loading what was in the volume query (Partial Load)

3D Product Architect interoperates with change management providing a seamless extension into governance with little

impact on the end user making the change process a natural extension to everyday work

3D Product Architect allows architects to filter by configuration to narrow down the specific product that will be changed. Product Variants can be assigned to change, add, or propose new configurations that satisfy customer demand for tailored products.

CAPABILITIES

Digital Mockup with Product Structure Editor

The Product Structure Editor provides users the capability to review existing structure, mockup changes, create new structure and leverage existing products by being able to insert or duplicate. The user has full control over lifecycle functions such as release and revise. The ability to mockup products via the web saves valuable engineering time in the design tool and is available for all to see in the product development chain. Changing the structure is also reflected in 3D Compose as well as cross highlighting to examine product in 3D.

3D Compose

3D Compose enables user to see what is happening when the structure is being changed to understand impact of changes. Volume Query will select products in the structure editor which can contribute to building a session which can be used for partial loading into design. Other capabilities such as measure, section and related objects enable users to examine specific product features

Configuration with Product Structure Editor

Working with configurations developed in the Variant Configuration application enables users to create products with variability and assign design context to each configured product providing a way to extend existing designs and provide tailored products to customers demanding fast turn around and flexibility in the product they build

MultiCAD DMU

A single context from multiple design sources now allows products to be seen in their entirety to better understand how changes will impact the product through digital mockup. Composition is also accessed through 6W Tagging to help architects understand what the design tool mix was.

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