ENOVIA Variant Configuration Experience

ENOVIA® Variant Configuration Experience decreases design diversity by leveraging the functional product definition.

**Key Benefits**
- Allows engineering to reduce unnecessary product diversity and avoid invalid product configurations
- Streamlines the product definition and development process
- Maximizes part re-use and minimizes part proliferation
Product Overview

With ENOVIA Variant Configuration Experience, product engineering can utilize the system engineering definition of a product for design feasibility analysis. Product engineers can define configurations for evaluation purposes in order to reduce unnecessary product diversity and prevent invalid feature combinations that are not technically supported.

With ENOVIA Variant Configuration Experience, product engineers can:

- Search for product configurations based on selected features to improve part re-use and minimize feature proliferation.
- Create new product configurations for commercial release or for evaluation.
- Generate Engineering Bills of Material (EBOMs) based on customer specific product configurations that satisfy Design-To-Order/Engineer-To-Order demands.
- View the logical feature decomposition and compare it against existing designs to maximize the reuse of existing parts.
- View customer configurations to assess the needs and validate against existing product designs.

Product Highlights

Key features and capabilities include:

Search for Existing Product Configurations
ENOVIA Variant Configuration Experience helps companies reduce unnecessary product diversity and increase product reuse by allowing product engineers to search for existing configurations that satisfy market needs.

Product Configurator
Sales engineers can meet the unsatisfied needs of their customers by using the product configurator to define new products. For a build-to-market business model, system engineers can pre-define product configurations that are published in a company’s product catalog. In addition, system engineers can create partial configurations for the products they are responsible for that are available to cross functional groups to define further. In order to maximize the reuse of configured accessories and service parts, engineers can create product configurations at any level of the feature hierarchy. When product configurations are created at the sub-feature level, a bill of materials can be generated and submitted to engineering for verification and release. The newly generated top level part assigned to the feature’s configuration is back-annotated and reused with the feature’s part table.

BOM Generation
ENOVIA Variant Configuration Experience enables product engineers to generate an engineering bill of material (EBOM) for engineer to order (ETO) business models or a precise bill of material (PBOM) for build-to-order business models. A BOM Preview dialog allows users to preview selected parts based on the chosen marketing features and evaluated part inclusion rules.
Issue Resolution and Change Management
ENOVIA Variant Configuration Experience uses a cross-functional change process that helps product engineers systematically introduce necessary product diversity to the design process. Conversely, product engineers can raise issues and engineering changes against products or features in order to further explore reuse opportunities.

Configuration Planning for Virtual Manufacturing
ENOVIA Configuration Experience users have visibility to “Manufacturing Plans” that reference a unique process definition in DELMIA®. This allows manufacturing users to view different views of a product’s process plan based on configuration criteria.

The Role of ENOVIA V6 and PLM 2.0
ENOVIA Variant Configuration Experience supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values: global collaborative innovation, single PLM platform for intellectual property (IP) management, online creation and collaboration, ready to use PLM business processes, and lower cost of ownership.
As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 100,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire lifecycle of products from conception to maintenance. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product—SolidWorks for 3D mechanical design—DELMIA for virtual production—SIMULIA for virtual testing—ENOVIA for global collaborative lifecycle management, and 3DVIA for online 3D lifelike experiences.

Six Brands, Six Promises

**CATIA**
Virtual Product Design

**ENOVIA**
Global Collaborative Innovation

**3DVIA**
Online 3D Lifelike Experiences

**DELMIA**
Virtual Production

**SIMULIA**
Realistic Simulation

**SolidWorks**
3D for Professionals

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