DASSAULT SYSTEMES

ENOVIA

CONFIGURATION

ENOVIA Variant Configuration Experience

Reducing product diversity while maintaining a competitive advantage is a business challenge many companies face today. System engineers and product planners use ENOVIA® Variant Configuration Central™ to tackle product diversity during the "idea" or concept phase of the product development process. A conceptual feature definition of the product is used as a framework for a diverse but modular platform. This approach to product definition helps companies get ideas to market faster, streamline the design engineering processes, and reduce design diversity.

With ENOVIA Variant Configuration Experience engineering can leverage these modular platforms to define new configured products that meet the needs of sales, customers, or to perform 'what-if analysis' on engineering designs.

Key Benefits

- Rapidly introduce a family of pre-configured products that satisfy market, company or catalog requirements.
- Allow engineering to assess and analyze their 3D variant designs using multiple configuration conditions to eliminate invalid orders or order rejection late in the process.
- Analyze different configuration computations or possibilities before the product is released.
- Use configurations to validate and test different engineering and marketing configuration rules.
- Optimize the design process of highly variant products by allowing engineers to quickly create an EBOM for pre-order fulfillment and design analysis.
- Allow engineering to maximize the reuse of parts by allowing them to input and contribute to the feature definition.

Product Overview

As products become increasingly complex with costly mechanical, electrical, and software capabilities, customers are demanding products that fulfill their unique needs at the lowest possible cost. To stay ahead of the latest innovations and market trends, companies must transition from traditional design processes to an approach that supports the definition of conceptual product architectures for highly variable configurations.

Unfortunately, many companies today have no simple mechanism for designing products that provide high market variation with technical modularity while controlling costs. With ENOVIA Variant Configuration Experience, engineering organizations can leverage the conceptual product architecture definitions to generate configured products that satisfy market specifications, and provide many possible optional capabilities. These conceptual product definitions serve as a framework for defining variant products that are configurable and drive the generation of engineering bills-of-material (EBOMs). As a result, companies can expedite the design process and lower costs while still meeting customer demands.

With ENOVIA Variant Configuration Experience engineering can:

- Create product configurations to analyze or release as solutions into a product catalog.
- Create product configurations to analyze designs in CATIA® using our ENOVIA™ VPM Configured Environment solution.
- Create product configurations to kick off the NPI process for new custom products.

Product Highlights

Key features and capabilities include:

Search for Products to Configure

With ENOVIA Variant Configuration Experience users can search for products to configure. Users have the ability to search for a product and configure it to fulfill specific requirements. There are two navigation capabilities for the user to search for a configurable product: the user can navigate the product portfolio or search for a product using the standard search screens.

Search for Products to Configure

With ENOVIA Variant Configuration Experience users can search for existing pre-configured products to leverage in new orders or for new design conditions.

Design Variation Definition

With ENOVIA Variant Configuration Experience design engineering and component engineering can define and update the Generic Part List (GBOM) of each feature to satisfy its design variation requirements. System architects responsible for the definition of the product architecture definition work side-by-side with engineering. System architects can request design engineers and component engineers to associate the list of parts that meet the variability conditions of the design feature.

BOM Generation

ENOVIA Variant Configuration Experience enables engineers to create configured products as input for EBOM generation to satisfy Engineering to Order (ETO) business models or a precise bill of material (PBOM) for build-to-order business models. A BOM Preview dialog provides users the ability to preview selected standard parts based on the marketing options and evaluated part inclusion rules.

Issue Resolution and Change Management

As products enter into the development phase, changes are inevitable but too many changes are cost prohibitive. A cross-functional change process helps system engineers manage and respond to feature changes systematically. ENOVIA Variant Configuration Experience provides a choice of change management processes that provide immediate visibility to change requests while maintaining integrity of the original reported problem to the internal resolution.

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.

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