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ENOVIA VPM Configured Environment

ENOVIA® VPM Configured Environment enables engineers to navigate on product configurations in real time, author in a configured context and define specific configuration effectivities on any product structure updates within the Engineering Work in Progress (WIP) environment.

Key Benefits

- Directly integrate the enterprise configuration definition into engineering
- Navigate and filter on any configuration to establish an accurate 3D representation and identify commonality among different variants and evolution states
- Define appropriate variants on product structure components to correctly define product configurations that align to business intent
- Exercise flexibility in variant edition, evolution states definition, variability space claim, and product duplication to study alternatives for a powerful configuration environment

Product Overview

ENOVIA VPM Configured Environment allows engineers to create the configured context they want to work in for authoring VPM configured product Structure for engineering activities such as system engineering, physical product engineering and manufacturing engineering. ENOVIA® Variant Configuration Central™ (FTR) enables to create and manage the Models that are used to define the configuration contexts for a VPM Product Structure. The criteria may be variant-related through the Model Option dictionary and/or evolution-related through product revisions, Manufacturing Plans, and builds defined on the model. Using effectivity, users can specify which added or removed components correspond to which variants or evolutions of the model. ENOVIA VPM Configured Environment allows engineer to evaluate configuration alternatives with traceability for design changes. Product managers can create different Engineering Change Actions (ECAs) to modify the product structure, specifying which configurations are impacted. ENOVIA VPM Configured Environment also provides advanced analysis tools, which can be used whether authoring or navigating configurations, to highlight components with the same effectivity or a compatible effectivity.

Product Highlights

ENOVIA VPM Configured Environment enables companies to more efficiently manage product variants and effectivity by providing the following capabilities and features:

Design in Configured Context

ENOVIA VPM Configured Environment is used to deliver on-time and accurate product variants to the market by enabling design in a configured context. When used with its optional co-requisite ENOVIA® Variant Configuration Central™, engineers can select and filter a configured context based on specified criteria. In the same environment, engineers can define the validity condition of configured objects (variability, evolution and applied changes) by applying specific effectivity.

ENOVIA VPM Configured Environment includes the ability to select an authoring mode to work with or without configuration management. When working with configuration management, the user has two options:

- Select a specific configuration for each modification performed on the product
- Define one configuration for all the incoming changes to be performed in the session

The effectivity definition on a product's components can be either manual or automatic with a full set of authoring commands such as cut, paste, replace, etc. Users can define, edit, and expose the different configurations of a given product. The configurations can be either actual products for manufacture or a partial or a mix of multi-configurations for design or analysis purpose (example: a car with all possible engine configurations).

Multi Configuration Contexts

Product managers can finely define the models to be used as configuration contexts in order to drive the available criteria to be used for product component effectivity values. This enables sharing of a single configured structure across multiple models and optimizes configured product structure reuse.

Evaluates Product Configuration Alternatives

ENOVIA VPM Configured Environment evaluates product configuration alternatives and enables design changes traceability. For any configured product, a finalized configuration view can be computed dynamically for browsing by a product manager, engineer or authorizer reviewer. The configuration capability is defined and stored in the ENOVIA V6 database and is available through searches or by directly selecting configuration criteria (variants and evolution).

By associating ENOVIA VPM Configured Environment with ENOVIA® VPM® Change Tracking, a product manager can create different Engineering Change Actions to modify the design and specify which configurations are impacted. By defining planned applicabilities, product engineers can see the product components before changes are validated, and browse a product as if all the current changes were validated. ENOVIA VPM Configured Environment saves time and money by letting users analyze and anticipate the impact of modifications of global product development (design, manufacturing, etc).

Product Configurations Analysis

ENOVIA VPM Configured Environment provides quick product configuration analysis for project tracking and decision making. The PLM compass and the property panel enable users to visualize quickly the effectivity of each product component and available pre-defined configurations. Additional advanced analysis tools are available for highlighting components with the same effectivity or a compatible effectivity. All these tools are available when authoring or navigating configurations.

Configure Product, Manufacturing and System Structures

By associating ENOVIA VPM Configured Environment to ENOVIA® VPM Editor, it is possible to configure standard product structures. In addition, ENOVIA VPM Configured Environment can be used with DELMIA® Process Planning or the ENOVIA® VPM Functional Logical Editor to configure respectively multiple manufacturing structures (process, resources) linked to a single engineering structure or system structures (functions, logical entities).

The Role of ENOVIA V6 and PLM 2.0

ENOVIA VPM Configured Environment supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values: global collaboration 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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