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CHANGE

ENOVIA VPM Change Tracking

ENOVIA® VPM Change Tracking provides engineers with full control and traceability of modifications made with Dassault Systèmes authoring tools (CATIA®, DELMIA®, and SIMULIA®) within the ENOVIA Work In Progress (WIP) Environment. It governs changes through the various stages of the product development cycle (design, manufacturing, maintenance, etc). It also provides the capability to manage a change process between the various designers/engineers.

Key Benefits

- Execute design modifications through the various stages of the product development cycle (design, manufacturing, maintenance, etc)
- Execute and monitor design modifications through ECAs.
- Ensure change traceability under ECA authority
- Track the progress of requested changes
- Perform complex system-wide changes assigned to multiple engineering groups.

Product Overview

With ENOVIA VPM Change Tracking, engineers can define an Engineering Change Action (ECA) on any product and enforce the modifications on the product to be performed under the authority of the ECA. All the engineering updates within the ENOVIA Work In Progress (WIP) Environment are captured within the ECA for full traceability. On completion of the engineering updates, the ECA can be transferred to the reviewer for approval. ENOVIA VPM Change Tracking also allows specifying Configuration Effectivity on the ECA that will be applied to all the structure modifications (requires ENOVIA® VPM Configured Environment software). Designers and engineers can also use the intuitive ENOVIA® 3DLive® interface to access visual 3D dashboards to quickly identify the ECA's that are impacting the product engineering. They can access different views of the engineering data by taking into account or not the modifications tracked under an ECA, thus enabling to see in advance the results of an ECA and anticipate possible consequences.

Engineering is the primary user of ENOVIA VPM Change Tracking software. However, enterprise change management authority can govern the whole process when used with ENOVIA® Program Change Control for a comprehensive end-to-end process. Companies gain a critical advantage by efficiently tracking fast evolving work-in-progress, closely monitoring activities, and controlling modifications as the product definition matures.

Product Highlights

Execute and Monitor Design Modifications

With ENOVIA VPM Change Tracking, users can fully edit and explore an ECA in progress. A user has a full view of the lead ECAs, and can add information to break them down into several more granular ECAs that can be transferred to other users. A proposed applicability for the ECA can be defined for configuration integration and a user can validate the changes to be published for the given applicability. A user can validate the changes to publish for configuration purposes. The status of an ECA is monitored easily with the 3D Compass, which also provides information such as critical timing, lateness, etc.

Ensure Change Traceability Across the Product Lifecycle

Working under ECA authority is supported for all VPM Objects Types. All the performed modifications are logged under the ECA for traceability purposes. When browsing an ECA, these modifications are retrieved and displayed automatically so project leaders can understand what has been done and quickly decide to validate the modifications or not.

When working under ECA authority on Products, Manufacturing or System structures, configuration effectivities are automatically applied to the created or modified data. Therefore, data configuration is simplified preventing costly and time-consuming corrections. Users can browse a structure as it would appear if all the current changes were validated. ENOVIA VPM Change Tracking enables users to analyze and anticipate the impact of modifications on global product development (design, manufacturing, etc).

Track Progress of Requested Changes

Depending on their processes, users can enable Change Control (authoring under ECA enforcement) and Change Validation (authoring under ECA and configuration enforcement) to ensure that all the changes requested are tracked.

For example, when the first design stages are finished, a user may decide that the product is mature enough for deployment. Going forward, any modifications made on the product should be traceable, so users will start enforcing change control. Users will enforce change validation to ensure that all the changes are made, deciding which configurations to apply in the meantime.

Perform Complex System-Wide Changes Assigned to Multiple Engineering Groups

ENOVIA VPM Change Tracking integrates with ENOVIA® Program Change Control by making an ECA a deliverable of a project change task. With ENOVIA Program Change Control, users can determine the scope and cost of all product changes that impact multiple functional disciplines (e.g., software, mechanical, electrical) before they are implemented. As products collect change requests, each functional department can capture the impact, scope, and cost of the proposed change with meetings and decisions early in the change request process. All change information for a given product or program can be rolled up and aggregated for analysis and approval.

A program manager can create and define a design modification that needs to be done and attach an ECA in ENOVIA Program Change Control. A designer will retrieve this ECA through ENOVIA VPM Change Tracking with the relevant context including a specific configuration and perform the modifications. Users can consult ENOVIA Program Change Control about the ECAs, and its associated objects and decide to apply the change or not.

As the change process is executed, the change task status is updated automatically to provide a change summary status at the task or project level. This enables total control and visibility of all changes throughout the product development process leading to improved productivity, higher quality and faster time-to-market.

The Role of ENOVIA V6 and PLM 2.0

ENOVIA VPM Change Tracking 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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