

ENOVIA V5 VPM

ENOVIA - Engineering Change Management (ECM)

ENOVIA V5R21





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ENOVIA - Engineering Change Management

To provide formal change processes comprised of engineering change requests and engineering change orders

Product overview

ENOVIA Engineering Change Management (ECM) provides out-of-the-box engineering change request (ECR) and engineering change order (ECO) processes to formally validate, authorize and track changes to objects.

An ECR process captures a request for change and routes it to various related departments for validation and impact/cost analysis. An ECO process captures a full definition of work required to perform a change, which can be planned as a series of linked work packages that are systematically distributed to all affected organizations.

ENOVIA engineering change processes are unique because these processes internally employ Actions as task components. This provides a degree of ad-hoc capability to the formal change processes due to the dynamic nature of the Action that can be broken down into smaller assignable child Actions, or sub-tasks, that can be transferred to other people or organizations.

What's New ? in V5R21

In this release V5R21 ENOVIA Engineering Change Management provides the following new enhancements:

- ▣ **Affected Objects Report** Collaboration between

users is increased by allowing users subscribe to events related to objects of actions so that they can be notified when affected objects are added or removed.

- ▣ **Lock and Unlock Objects Editor** Usability and productivity are improved by providing users with the ability to lock and unlock objects from within Action Editor minimizing interactions by avoiding the need for users to open a dedicated editor for those tasks.

- ▣ **Affected Objects Enhancement** Efficiency and ergonomics are enhanced with improved readability of affected objects by grouping item instances by product root class. Users will be able see a grouping of instances linked to the same product under the respective product node.

Product Highlights

- ▣ Ability to create an ECR (Engineering Change Request) for capturing a request for change and routing it to various related departments for validation
- ▣ Ability to create an ECO (Engineering Change Order) from a validated ECR
- ▣ ECO hierarchy feature for

incrementally releasing large product structures

- ❑ Prerequisite and co-requisite ECO management
- ❑ Action management (Actions are used as ECR and ECO s granular task components)
- ❑ ECO simulation of change feature for correcting errors prior to the actual change
- ❑ Change Management Navigator to navigate on EC and Action links

Product Key Customer Benefits

Formalbut flexiblechange management

ensure that changes to products are captured, authorized, tracked and communicated throughout the enterprise and the entire life cycle of the product. ECM usage is more suitable for mature designs whereas Action (informal change mechanism) usage is more suitable for early product design phases. ENOVIA engineering change processes are unique because they employ Actions as task components. This provides a degree of ad-hoc capability to the formal change processes due to the dynamic nature of the Action that can be broken down into smaller assignable child Actions, or sub-tasks, that can be transferred to other people or organizations.

Comprehensiveengineering changes

release planning utilize prerequisite, co-requisite EC and EC structure (hierarchy) capabilities to allow all changes to be inherently linked together and released according to a planned sequence. This is especially helpful for releasing a large product structure without after-the-fact costly reworks.

Correct errors beforeanactual change

is committed simulate the progression of an Action/ECO/ECR to the next state in its lifecycle graph. With this feature, users will be able to make necessary corrections prior to the actual change.

Seamless transitionbetweeninformal

andformal change process ENOVIA LCA builds on the experience acquired with both

ENOVIAVPM and ENOVIAIPM. It is the next-generation solution that satisfies both the VPDM (Virtual Product Development Management) and the PDM (Product Data Management) domains. While most other commercially available systems have separate VPDM and PDM system, which results in difficulty for corporations to oversee a change process that will span the entire product life cycle, ENOVIA LCA supports seamless transition between informal to formal change processes. Actions are used in early product development phases (VPDM function) where changes to products and parts are made in informal fashion. When product design has stabilized and matured, it can be moved under the formal control of an engineering change order or a workflow (PDM function). Conversely, engineering change and workflow use Action as task components providing a degree of ad-hoc capability to the formal change processes due to the dynamic nature of the Action itself that makes it easy to be broken down into smaller assignable child Actions or sub-tasks that can be transferred to other person or organizations.

ABOUT ENOVIA V5R21

ENOVIA provides companies with integrated solutions to simulate the entire product lifecycle.

www.3ds.com/products/enovia

