ENOVIA Requirements Central

Product Overview

ENOVIA® Requirements Central™ enables global development organizations to drive consistency in a shared environment when capturing customer, regulatory standards and market-driven requirements. Requirements can be defined and decomposed into a hierarchy, and fulfilled through the design, implementation and testing of final products to provide traceability throughout product development.

- Improve efficiency and effectiveness of the product planning process using a common source to manage requirements
- Fully manage the requirements lifecycle from the time they are initially authored to when they are fulfilled with a product launch
- Maintain requirements traceability back to the original customer and marketing (source) documents
- Improve configuration of requirements to reduce development costs and project schedule slippage by establishing baselines agreed to by all stakeholders
- Enhance sharing and communication of requirements to cross functional organizations resulting in less rework, missed objectives and missed deadlines
- Support optimal design architecture definition by enabling trade-off analysis that balances functionality, performance and cost

Product Highlights

Product Planning

ENOVIA Requirements Central provides companies with the ability to organize and manage their portfolio of products and the planning and introduction of future products. Product lines and model hierarchies organize a company's family of products. Model hierarchies represent specific products available to customers.

Requirements Capture

ENOVIA Requirement Centrals allows users to capture and import requirements from Microsoft Word and Excel 2003 and 2007. From Microsoft Word documents, users can manually or automatically parse requirements by key words and then import them into the ENOVIA database. These requirements are captured from Microsoft Word by highlighting and tagging individual requirements. When capturing requirements from Word, it is possible to import and maintain how the requirements were organized into chapters. The captured data can include rich text formatting, tables, bullets, images, symbols, and 3D XML information. Each chapter and requirement imported from a source document is given a unique object ID and organized into a specification structure that is traceable to the respective section in the source document. From Microsoft Excel spreadsheets, users can import requirements from user configurable formats.

After requirements are captured and stored in the ENOVIA database, product teams can use a robust structure navigator and rich text editor to browse, view and modify the requirements without losing any of the original formatting.

Requirements Analysis

ENOVIA Requirements Central supports the requirements analysis process so that users can review, assess, prioritize, and balance the needs of numerous customers. Requirements can be decomposed from high level requirements into individual detailed low-level requirements so that they can be partitioned and allocated to products and system components. While creating derived and decomposed requirements, design rationale can be captured to maintain design decisions effectively throughout the product lifecycle and provide traceability to the underlying foundation of the original designs.

Key Customer Benefits

- Compliance with standards and regulations by controlling the requirement management process
- Improve product quality and customer satisfaction because new products are designed and developed that accurately reflect the voice of the customer
- Reduce development costs and rework by bridging the gap between product requirements, design and product launch processes and disciplines
- Improve visibility, team communication and collaboration because teams are using a central repository and common tool to manage product requirements
- Improve overall traceability throughout the evolution of requirements

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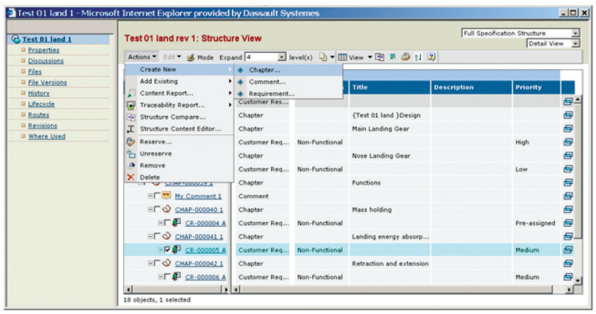
Product Highlights (continued)

During the analysis process, users can compare entire requirements structures or individual requirements to identify changes or deltas. ENOVIA Requirements Central additionally provides the ability to reserve and un-reserve requirements structures to prevent multiple users from making modifications simultaneously.

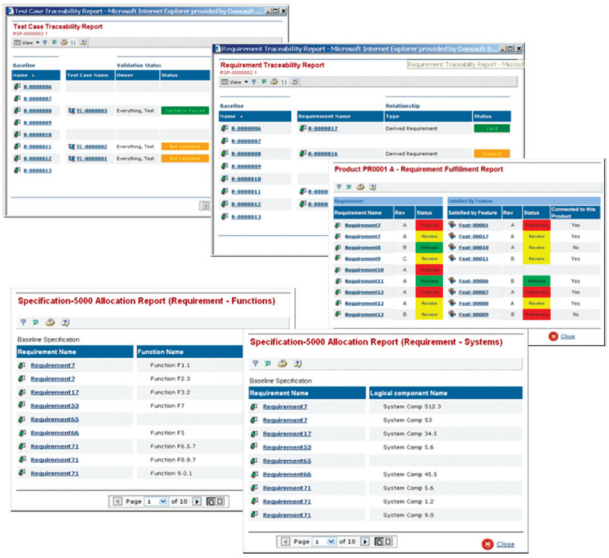
Requirements Search

ENOVIA Requirements Central has an advanced requirement search capability that allows users to search the entire database based on defined parameters or search for requirements that are included in the context of a requirement specification structure.



Change Management

Once requirements have been reviewed and approved, a requirements specification baseline can be established that prevents a set of requirements from being changed. A baseline will establish a set of agreed upon requirements for all stakeholders to measure performance. Changes are inevitable, but need to be managed via a cross-functional change process that is managed, auditable and traceable. ENOVIA Requirements Central 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. For simpler changes, a company may choose to just use the issue management capabilities. For more complex changes that affect many downstream processes, a company may choose to use the formal engineering change functionality after an initial issue is submitted. System engineers stay informed in real-time whenever requirements change by subscribing to modification events. Emails are received when the changes occur.



Requirements Traceability Matrices

Requirements Traceability Matrices maintain the linkages from the source of each requirement through its decomposition to implementation and verification. ENOVIA Requirements Central provides the following traceability matrices:

- Requirement validation matrix report provides traceability from requirements to test cases to ensure that every requirement has a test associated for verification and validation purposes
- Requirement to requirement traceability matrix report provides traceability to other derived and decomposed requirements to ensure that every lower level requirement can be traced to a higher level requirement or original source
- Requirements fulfillment report provides an overview of the fulfillment progress of requirements to linked product features in the context of their associated products

Requirements to Functional and Logical Traceability Reports

The captured requirements stored in the ENOVIA database can be leveraged by other ENOVIA products. The ENOVIA® VPM Functional Editor can search for requirement objects and allocate them to functional and logical system elements. Once requirements have been allocated to system elements, an ENOVIA Requirements Central user can generate reports to view these system allocations. The following are the available reports:

- Requirements to function traceability report provides an overview that all functional requirements are allocated to functions
- Requirements to logical traceability report provides an overview that all requirements are allocated to a logical component

Document Report

Since some stakeholders will not have access to the requirement management tool or just want to read the requirements specifications off-line, ENOVIA Requirements Central provides the ability from the requirements structure content editor to download the entire requirement specification structure with all its related rich text and detailed information to Microsoft Word for viewing or printing.

ENOVIA Requirements Central enables companies to optimize their global product planning process from needs identification through final product validation.

The role of ENOVIA V6 and PLM 2.0

ENOVIA Requirements Central 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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