

User Roles

SMARTTEAM - BOM (BOM)

SMARTTEAM V5R18





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SMARTTEAM - BOM

To automate the creation, collaboration and management of Configurable Items, Product Structures and Bill of Materials (BOMs) across multiple disciplines throughout the enterprise and across the value chain.

Product overview

SmarTeam - BOM enables users to manage, manipulate, track and collaborate on product structures and Bills of Material (BOM) throughout the product lifecycle and across the extended enterprise and the supply chain - from an Item and Bills of Material (BOM)-centric approach, thus eliminating Item redundancy, minimizing errors, and expediting processes.

By addressing collaborative engineering and complex engineering configuration management and supply chain collaboration scenarios, SmarTeam BOM enables users to monitor, filter and view product structures and BOMs from as early as an As Estimated BOM of requirements, systems and functions, through As Designed BOM of Configuration Items and engineering design, until the As Built BOM of production Items . Revolutionary, flexible, configurable and dynamic Item lifecycle and revision management rules that are based on a Go-to State engine enable engineers to manage complex product structures through corporate-adjusted item states, such as Design-for-Prototype, Release-for-Planning, or Release-for-Mass Production. Users can compare and validate product content, and ensure fast and optimized "Design-to-Order" and other product development processes, already originated from ENOVIA SmarTeam diverse, multi-CAD Integrations.

Product Structure Copy and Compare capabilities ensure knowledge reuse and

significant time savings, and powerful editing capabilities, applicable also through a SmarTeam Briefcase technology, optimize manipulation and supply chain collaboration. Workflow automation can be applied on engineering changes made on the BOM, enabling faster innovation cycle, and improved product quality.

Product Structure Copy and Compare capabilities ensure knowledge reuse and Bill of Materials consistency validation and accountability, which grant significant time savings in managing engineering processes.

Enhanced Structure Management and Multiple Views functionality, which are the basis for object trees configuration handling, provide users with efficient Impact Analysis control across a variety of complex product configurations, and ensure traceability during engineering change processes.

Powerful, embedded BOM Editor accelerates users productivity while managing BOM processes by providing an easy-to-use and flexible work environment ENOVIA SmarTeam Briefcase technology optimizes BOM manipulation and collaboration with supply chain partners. SmarTeam BOM enables users to easily and securely exchange data with suppliers and customers. Users can effortlessly extract BOM data, including all relevant files and meta-data, into a lightweight Briefcase. The self-extracting Briefcase, which contains the required viewing and manipulation tools, can be distributed easily via email, FTP or the

Web. Briefcase recipients without PDM or other applications can view the BOM and other related documents, view redlining marked by other users, and compare or track changes.

The BOM White Board (BWB) tool provides a safe environment for increased innovation and product quality. In this off-line environment, users manipulate temporary BOM versions, without affecting the real product structures, thus experimenting with BOM changes implications. Engineers create and manage baselines and snapshots of a variety of product structure configurations, and can share them with other by attaching their in-progress BWBs to engineering change workflow processes.

Product Highlights

- ❑ Collaborative Product Structure Management throughout the Enterprise and across the supply Chain
- ❑ Comprehensive Item management
- ❑ Product Structure and Configuration Management
- ❑ Product Structure Effectivity Management
- ❑ Easy creation of initial BOM from CAD environment and based on CAD data representation (Document Structure)
- ❑ Easy and efficient BOM view and manipulation
- ❑ Various BOM views - Multi level, Single Level and Summary views
- ❑ BOM change management processes, such as ECR and ECO, using the BOM WhiteBoard (BWB)
- ❑ Advanced compare tools enable to compare different product structures, revisions or product structure to CAD document structure
- ❑ Links management between documents and items
- ❑ Copy product structure to a new item or consolidate any 2-product structures
- ❑ Search items within SmarTeam database
- ❑ BOM collaboration with suppliers - managing Briefcases
- ❑ BOM generation Generate BOM packages from SmarTeam data

- ❑ Following editing and return of the Briefcase from suppliers to the OEM, proposals can be compared, consolidated, and synchronized back into a ENOVIA SmarTeam database supply chain tools
- ❑ BOM Consolidation Wizard consolidate two BOM packages.
- ❑ Synchronization Wizard synchronize BOM package received for external source.
- ❑ Export to Excel
- ❑ Administration Wizard defining the BOM environment
- ❑ Advanced customization tools
- ❑ Complete BOM management tool integrated within SmarTeam - Editor

Product Key Customers Benefits

R&D cost reduction and shorter time to market

SmarTeam - BOM optimizes BOM management processes and provides a reach set of tools for data manipulating, and reuse of existing items stored inside the ENOVIA SmarTeam database. For locating existing items, users can use all of SmarTeam search tools from within a SmarTeam - BOM view or enter a item number (SmarTeam - BOM completes item numbers automatically).

e-Business on demand capability

Light, swift, easy to use, and with no installation requirements, the Briefcase enables companies to meet critical business needs: leverage their intellectual property and value chain resources to respond quickly and effectively to time-dependent market demands and opportunities. With the Briefcase, manufacturers can easily exchange relevant data with suppliers and consultants, enabling them to respond competitively and be prepared for orders, in the event of a win.

Complete lifecycle management

SmarTeam BOM includes pre-defined item behaviors, which include specific item attributes, lifecycle states and lifecycle business rules, thus maintaining data integrity throughout the BOM cycle. A BOM can be

located either by specifying its revision or by filtering the BOM by dates. SmarTeam - BOM supports object effectivity and structure effectivity.

Efficient change process on BOM

Efficient Engineering Change Orders (ECO) on BOMs is made easy, using the BOM WhiteBoard (BWB) feature. The BWB enables users to place a product representation into a separate SmarTeam object. Inside the BWB, users specify BOM changes and markup all reference documentation that are changed. Any participants in the ECO process may assign tasks to subsequent users.

In the implementation stage, after approval of the ECO, the BWB object is synchronized back into SmarTeam.

Achieve comparative price by global source management

Briefcase packages received from external suppliers or sub-contractors can be read using the SmarTeam - BOM. After analyzing the data, the OEM may synchronize information (partial or complete with or without documentation) into the SmarTeam database.

Enabler rapid adjustment to market trends leverage Partnership

SmarTeam - BOM consolidation tool enable users to compare two Bill of Materials versions received from different suppliers (for example cost of item inside a BOM) in order to optimize supply chain sources, get better products at cheaper production costs.

ABOUT SMARTEAM V5R18

SMARTEAM manages and leverages corporate product knowledge and links it with business processes.

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