



## **ENOVIA CPG Accelerator for Integrated Product Management**

### **Product Objective**

The ENOVIA® CPG Accelerator® for Integrated Product Management™ enables companies to use structured specifications to build and maintain multi-level bills-of-material (BOMs), including material quantity definition and supplier identification. It provides holistic change order process management, highlighting “where used” impact analysis of materials not only within the targeted BOM but also across product portfolios.

### **Product Overview**

The ENOVIA CPG Accelerator for Integrated Product Management enables Consumer Packaged Goods (CPG) companies to manage BOM data in a single, centralized, scalable structured data environment. In the CPG industry, BOM management, as a superset to specification management, is the foundation for Product Data Management (PDM). BOM management is the logical extension of specification management. Specification management enables enterprises to better manage and standardize the development, review, approval, and distribution of product specifications, including those related to packaging, raw materials, and formulas. BOM management allows enterprises to combine specifications into logical material hierarchies that define product structure.

With this product, Research and Development (R&D) can define any kind of CPG product specification and BOM including, but not limited to, formula, raw material, packaging components, and work instructions. Its specification development and change management processes have been specifically designed to ensure all impacted stakeholders are kept informed and given an opportunity to review the BOM/specification before its release. As a result, CPG companies can bring products to market faster while maximizing re-use of common specifications to reduce costs.

ENOVIA CPG Accelerator for Integrated Product Management can be further extended to manage manufacturing site-specific BOMs, BOM costing, formula optimization, materials compliance, dynamic label copy generation, and primary/secondary packaging design tools (bill of packaging). To ensure consistency between R&D and purchasing, users can integrate this product with transactional systems such as Enterprise Resource Planning (ERP) and Manufacturing Resource Planning (MRP).

In sum, the ENOVIA CPG Accelerator for Integrated Product Management ensures that “a single version of the truth” is shared across the extended enterprise for product data.

### **Key Customer Benefits**

- Build and maintain multi-level BOM structures from centrally-managed and approved specifications
- Realize economies of scale across a distributed supply chain through raw material and supplier rationalization
- Enforce quality and regulatory standards on material and finished goods specifications originating from multiple countries of origin (COO) and being applied in products across multiple countries of sale (COS)
- Execute change order requests holistically with “where used” analysis
- Integrated management of CAS (Chemical Abstracts Service) and EINECS (European Inventory of Existing Chemical Substances) requirements
- Manage Manufacturing Equivalent Parts (MEPS) as trade names with their corresponding supplier per location
- Include optional ENOVIA® products to manage manufacturing site-specific BOMs, BOM costing, materials compliance, and primary/secondary packaging design tools (bill of packaging)

## Product Highlights

ENOVIA CPG Accelerator for Integrated Product Management supports a part centric approach to manage products better with a unified view of technical specifications. Key capabilities include:

### Specification Templates

Templates drive standards throughout the enterprise by driving the format and definition of all new product specifications. Specification Templates enable companies to set attributes at a global, regional, or local level. Templates can also define sections as “mandatory” versus “optional” and specify which sections should be included in the internal PDF and which sections should be included in the external PDF. Specification Templates are also under change control. The change process allows the enterprise to notify all derived product specifications of the change, allowing the product specification owners to make informed decisions.

### Support Organizational and Regional Differences

Companies can manage product specifications globally or according to business unit and region. This allows companies to include global teams in the review and approval process. The review and approval process includes electronic signatures that comply with United States FDA (Food and Drug Administration) Part 11 guidelines for audit trails and authentication, Efficient global, regional, and local product specification distribution are benefits also.

### Change Management Process

CPG companies have complex organizational charts focused on their worldwide brands. A dynamic approval matrix ensures that all necessary approvals throughout the CPG organization are obtained as part of a specification’s release process. ENOVIA CPG Accelerator for Integrated Product Management provides a change management process that enables manufacturing compliance. These best practices include an optional change request process, which qualifies, analyzes, reviews, and approves change requests for released data (formula, assemblies and technical specifications). The change request process ensures that users follow a common process and the right level of analysis and oversight is employed. Only “approved” changes are implemented, thus reducing the quantity and time associated with implementing the changes. Proposed changes are sometimes too complex to implement as a single change request, and the development team requires more implementation flexibility. A change request can be split into multiple change orders to allow the change to be implemented as work processes dictate. The change order process applies the dynamic approval matrix on the affected components for the approval process. The approval matrix templates are predefined for the different part and specification types with additional selection criteria such as scope, owning responsibilities, etc. The approval matrix templates are assigned automatically to the data during the creation process and are invoked during the approval process.

### Dynamic Notification List

Subscriptions notify users of changes and other events associated with the data. Email notifications are sent when data is at the approval stage, preparing users throughout the organization for the upcoming changes. This gives complete visibility at a

business unit level to key stakeholders so that they understand the change impact to complete products or production lines. The benefits are more effective planning and reduction of downtime when changing materials or components.

### Integrated BOM Management

ENOVIA CPG Accelerator for Integrated Product Management provides an intuitive BOM building process that allows organizations to develop validated, structured product bills from reusable specification objects. The “where-used” analysis capability allows for a comprehensive understanding across products of the change impact on any of the component BOM specifications. Users can structure BOMs for even the most complex products with thousands of parts organized across many levels of hierarchy. The BOM assembly structure automatically updates when new component revisions are released. An integrated structure browser allows users to navigate and edit multiple levels easily. Comprehensive BOM editing capabilities include copying components to and from existing assemblies, and replacing, adding, removing, and re-sequencing components in the BOM. Mass change operations automate complex BOM changes that affect many parent assemblies. Differences between BOMs can be listed in a detailed text format or an intuitive highlighted side-by-side format. Support for preparing a BOM for manufacturing is also provided. Users can define the BOM with location specific preferred suppliers and component parts and provide a list of engineering approved “alternate” or “substitute” parts that can be used by manufacturing instead of the primary engineering part. BOM markup capabilities are provided to facilitate the change management process. It is also possible to manage Manufacturing Equivalent Parts (MEPS) as trade names and their corresponding supplier per location.

### Constituent/Ingredients Management

Ingredients can be managed along with CAS (Chemical Abstracts Service) and EINECS (European Inventory of Existing Chemical Substances) information. Ingredient information propagates from raw material specification to formula specifications and ingredient decomposition in the product specifications. Users are able to search for specifications by ingredient information. ENOVIA CPG Accelerator for Integrated Product Management provides different flavors of constituent management:

- Part constituent management (requires ENOVIA® Materials Compliance Central™ and ENOVIA® X-BOM Materials Compliance license)
- Manufacturing Equivalent Part constituent management (requires ENOVIA Materials Compliance Central and ENOVIA X-BOM Materials Compliance license)

### Specification and Part Search

ENOVIA CPG Accelerator for Integrated Product Management provides a powerful full-text search capability allowing users to search for parts, specifications, and other documents. Users can navigate through the parts or specifications taxonomy and narrow down the results by filtering on metadata. Parts and specifications can be searched by constituents, organizations, suppliers and trade names. Keyword search can be performed against both metadata and file attachments.

## The Role of ENOVIA V6 and PLM 2.0

ENOVIA CPG Accelerator for Integrated Product Management 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.

### About ENOVIA

ENOVIA is the recognized leader in delivering collaborative PLM solutions. We enable companies from a broad range of industries to dramatically accelerate innovation, time-to-market and revenue generation by collaboratively developing, building and managing products. Our solutions facilitate the sharing of concepts, content and context across product lifecycles and throughout value chains of employees, customers, suppliers and partners.

ENOVIA collaborative PLM solutions help global enterprises bring together people, processes, content and systems to achieve a compelling competitive advantage. Our interoperable solutions unify and streamline processes across the product lifecycle, enabling companies to easily and cost-effectively work on projects within and outside of their enterprises. Our adaptable, scalable technology is built to accommodate the ever-changing marketplace.

### About Dassault Systèmes

As world leader in 3D and Product Lifecycle Management (PLM) solutions, the Dassault Systèmes group brings value to more than 90,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire life cycle of products from conception to maintenance. Our offering includes integrated PLM solutions for product development (CATIA®, DELMIA®, ENOVIA®, SMARTEAM®), mainstream product 3D design tools (SolidWorks®), 3D components (Spatial/ACIS®) and SIMULIA®, DS' open scientific platform for realistic simulation. Dassault Systèmes is listed on the Euronext Paris (#13065, DSY.PA) stock exchange. For more information, visit [3ds.com](http://3ds.com).



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