ENOVIA Aerospace and Defense Accelerator for Program Management

Through project pipeline dashboards, ENOVIA® Aerospace and Defense Accelerator™ for Program Management provides real-time visibility into a project's status in terms of schedule, resources, costs and benefits. Users can create and access ENOVIA data from the most popular Microsoft applications, including Word, Excel®, PowerPoint®, Outlook®, Project, Windows Explorer, and Windows Desktop Search.

Key Benefits

- Improve proposal performance in terms of needed resources, response schedules and proposal win/loss ratio.
- Secure program award fees and profits with reliable contract delivery performance.
- Increase customer satisfaction as the result of responsive and reliable issue and correspondence management with the customer.
- Reduce or eliminate penalties and late fees through better management of contract work items, schedules, deliverables and all adjustments and changes.
- Eliminate failed contract audits through the use of repeatable and secure storage, submittal and contract verification processes.
- Optimize staffing plans with real-time utilization reports to assess availability of key skills across all projects.
- Drive phase-based decision making process using best-in-class process templates, with predefined phases, gates and milestones.

ENOVIA

your world in formation

- Improve execution and oversight of complex product development activities by decomposing projects into smaller manageable projects with visibility to sub-project dependencies.
- Facilitate access to processes and data within a secure environment.
- Coordinate and collaborate on the planning and execution of projects in real-time.
- Manage complex collaborative projects involving internal and external teams of customers, suppliers and partners.
- Accelerate ROI because of more rapid adoption of PLM.
- Enhance user adoption by simplifying access to product content using the most popular Microsoft applications.
- Improve collaboration and decision making throughout the enterprise by leveraging product data.
- Apply enterprise-level data sharing and security without disrupting established …end-user work procedures.
- Increase overall end-user efficiency and productivity.
- Evaluate and optimize operations to establish and exploit best practices.

Product Overview

With product content being managed in the ENOVIA environment rather than on users' PCs, organizations are now able to create, manage and review product content more securely. The native integration to Microsoft applications supports a rapid adoption of ENOVIA Aerospace and Defense Accelerator for Program Management by minimizing end-user training.

ENOVIA Aerospace and Defense Accelerator for Program Management uses one central repository to support key functional disciplines within the A&D enterprise:

- Contracts Management
- Subcontracts Management
- Data Management
- Program Management
- Program Planning & Control (PP&C)
- System Engineering.

Performance-to-contract is greatly improved when all contract requirements are visible to the entire team. Using one system to bring together the core processes of these functional disciplines provides the ability to improve overall performance of program execution and delivery-to-contract. ENOVIA Aerospace and Defense Accelerator for Program Management provides the ability to:

- Capture contracts and their associated work-breakdown elements in line-item detail to ensure complete assignment, scheduling and proper execution. Work-breakdown elements reference the scheduled tasks required to complete the work assigned.
- Link projects with critical milestones and deliverables to the contracts and baseline product architectures.
- Link hardware and software deliverables to schedule tasks.
- Capture contract requirements for data delivery with the Contract Data Requirements List (CDRL) and Subcontract Data Requirements List (SDRL). Generate and schedule submittal tasks and link actual data deliverables documents for assignment and future completion.

In order to align downstream product development with the contract requirements, ENOVIA® Requirements Central™ can be deployed to capture, share and manage technical requirements.

Product Highlights

Proposal Management

ENOVIA Aerospace and Defense Accelerator for Program Management manages a company's responses to proposals in a more effective way. By implementing winning proposal project processes, reusing previous proposal and program artifacts and working more efficiently in a shared environment, companies can improve win/loss ratios while lowering proposal effort, maintaining tight proposal schedules and complying with CMMI process repeatability requirements. Common WBS capabilities allow the company to accumulate experience from historical contracts and projects to assist in preparing estimates for new ones.

Contracts Management

ENOVIA Aerospace and Defense Accelerator for Program Management allows companies to manage and store contractual correspondence and documentation. Program managers can capture and decompose product requirements, contract line-items (CLINs) and Work Breakdown Structure Elements (WBSE) into manageable, traceable and auditable entities. Responsibilities for the execution and contract closure of program plans are assigned through the requirements allocation matrix (RAM). Formal change and approval processes are provided to enforce Contract Modifications and Contract Change Orders. Tools include Contract Change Proposals, Rough Order of Magnitude (ROM) estimates and Preliminary Impact Analyses (PIA) for evaluation of customer proposed contract changes. Contract forms are provided for contract authoring and SF-1411 (Contract Pricing Proposal Cover Sheet) certification of cost is also supported. The structure of contracts supports the Uniform Contract Format (UCF) and contract templates assist in properly organizing enterprise or customer contract artifacts.

Subcontracts Management

Contracts and subcontracts can be managed in the context of programs with automatic synchronization of contractual milestones in master projects. Subcontractors' schedules and deliverables can be assigned and their performance to schedule can be tracked.

Data Management

Users can capture CDRL and SDRL specifications and manually or automatically schedule multiple data submittals based on milestone dates and frequency. DRL approval processes can be managed. Data Item Descriptions (DIDs) are linked as individual items to contracts, which permits classification and "where-used" lookup.

Program Planning & Control (PP&C)

Program managers can plan the execution of major programs through the development of schedule task breakdowns. These schedules can be input directly into the tool or imported as XML data from tools like Microsoft Project. The import process allows repeated updates over time to keep the two systems synchronized. Program risks and issues can be identified and mitigated throughout the project's execution. Issues are real incidents, inquiries or problems that are impacting your project negatively. Risks are anything that has the potential to impact your project negatively. Issue management provides a context for capturing, tracking and closing Issues in the context of a project. Issues are identified, captured, classified and assigned to project members for resolution.

Extended Enterprise

Secure access is provided using standard Internet tools for bringing customer, supplier and partner personnel into relevant aspects of product architecture and projects. Program management and product architecture data is accessed with a Web browser or via Microsoft Windows applications such as Explorer, Office, etc.

Support for customer notification and approval is provided by delivery folders for customers to receive contractual data submittals. Customers also have the ability to review and approve deliverables and download deliverable content. Flexibility is provided through configurable dashboards that display information such as the status of a program's key performance indicators (KPIs).

Configurable supplier access is available as well as configurable access to subcontract data (Statements of Work, specifications, etc.). Collaboration occurs between the subcontract management team and supplier team members, allowing subcontract risks, issues and opportunities to be tracked. Supplier team members also are able to record supplier schedule and deliverable status.

Schedule Change Management

Baseline schedules can be defined and any proposed changes to these baselines must obtain program/project manager approval for incorporation. Alternative tasks/schedules can be defined to assess the impact to a baseline schedule. In addition, the ability to "Lock/Unlock Schedules" in support of "End of Period" activities allows the program schedule team to control changes in the schedule while formal contract progress reviews occur.

Business Goals

Managers can define a business goal hierarchy to help identify which projects should be approved and funded based on how they impact strategy.

Resource Management

Resource management is supported across programs and business units to reveal the total demands and capacities of the organization. Projects of various kinds (e.g. proposals, risk mitigation, departmental) establish the demand for resources by organization or skill sets. Formal request/commit processes ensure that demand is met or unmet in a very visible and transparent way. Skill hierarchies and resource competencies and experience allow optimal use of resources. In addition, standard real-time reports of resource demand and utilization improve the organization's ability to make the right decisions about allocating resources, which improves overall productivity.

Project Dashboards

Management can leverage dashboards to get an aggregated high-level graphical view of project status by phase, risk, quality, issues, assessments, costs and benefits. The dashboards provide visibility into enterprise metrics such as Program Performance, Organizational and Integrated Program Team (IPT) Performance and Performance of Operating Units. Alternative views of program status are provided through Executive Dashboards, Proposal Dashboards, Departmental Dashboards and Product Line Dashboards.

Program Risk, Issue and Opportunity Management

Risk identification, mitigation and planning are fully integrated into the program context and related to the effort, schedule and deliverable items that are the common sources of risk. Risk-reduction projects permit detailed tracking of risk mitigation efforts which can be precisely tied into resource planning and master-schedule roll-ups. Embedded issue tracking and project health assessments help identify new risks as early as possible. During the analysis process, risks can be assessed and quantified in multiple dimensions. These dimension values are used to determine each risk priority and clarify which project risks need mitigation to help minimize these potential negative impacts.

Project Templates

Develop process standards and enhance predictability by driving repetitive project execution throughout the organization. Project templates consist of schedule elements defined by responsible roles, folder structures, questionnaires, document templates, and bookmarks.

Phase Gate Management

Project leaders can manage appropriate program milestones (such as subsystem PDR or CDR) with a phase gate review process, which includes criteria for making decisions to go forward with a project. For historical traceability purposes, the project leader can schedule the gate review meeting date and capture the gate meeting details such as list of attendees, topics and artifacts, and final decisions.

Task Deliverables

As tasks are assigned and being worked, task deliverables should be associated and managed in the context of the task. As a deliverable progresses through its lifecycle, the system automatically updates the task status. After tasks are completed, the deliverables will be stored and categorized into project folders for access controls and increased visibility. To keep task deliverables on schedule, project leaders can configure automatic reminders of upcoming or late tasks that project members will receive in their company email.

VPM V5 Data-Driven Project Management

For companies using ENOVIA® VPM Central™, it is possible to monitor design activity with the project using ENOVIA Program Central. This allows access to outputs from design on the corresponding project tasks. In V6, ENOVIA Program Central and ENOVIA VPM Central both run on the same technology platform. Therefore, users can search for and associate VPM data as deliverables to assigned project tasks easily. VPM tasks can be created as part of the ENOVIA Program Central Work Breakdown Structure (WBS) and are accessible immediately to the designer within his design environment.

Product Line Management

ENOVIA Aerospace and Defense Accelerator for Program Management provides companies with the ability to organize and manage their portfolio of products and the planning and introduction of future products by executing development projects. Product lines and model hierarchies organize a company's family of products. Model hierarchies represent specific products available to customers. Product managers can associate product releases with development projects and organize them into portfolios. A portfolio provides visibility into a product line's road map, product release dependencies and a real time status of strategic project milestones to share with other organizations.

Project Content

All project content and deliverables are managed securely and stored within folder and subfolder structures. Project owners and project leads establish security on a per project basis by setting individual access rights. Within a project, each folder and file maintains additional levels of security.

Team members can establish a single environment where all project information—not just documents—can be managed and shared. Members can subscribe to document events for immediate notification as changes and additions occur. Reports can be executed to provide a consolidated list of project-related content from either the work breakdown structure or from the folder structure.

Team Collaboration

A project manager can institute standard reviews for project members using routes or workflows to circulate tasks, projects and files. Online discussions are used to keep the entire project team informed of important project information. All team members can subscribe, view and comment on the original discussion topic or any of the subsequent responses.

Access PLM Data with Microsoft Applications

With ENOVIA Aerospace and Defense Accelerator for Program Management users create and access PLM data from the most popular Microsoft applications. This enables enterprise-level collaboration while not disrupting the established productivity of end-users. Users can access all files in the ENOVIA system as if they had been saved locally on their PC's hard drive.

Through the Microsoft Office tools (Word®, Excel®, PowerPoint®, Outlook®), users can easily save, browse and navigate product content with standard "Open", "Insert", "Save" and "Save As" dialogs to perform PLM actions such as search, document lock/unlock, file check in/check out, delete, version and revise. In addition, users can:

- Promote company standards with document templates stored in ENOVIA and accessed with Microsoft Office applications
- Populate data from ENOVIA into MS Word tables
- Direct searches into the ENOVIA database to find product information
- Subscribe to document modification events
- Route documents for review, comment and approval
- Record key decisions with saved email threads
- Manage project schedules with MS Project

The role of ENOVIA V6 and PLM 2.0

ENOVIA Aerospace and Defense Accelerator for Program Management supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values, which are:

- Global collaborative innovation
- Single PLM platform for intellectual property (IP) management
- Online creation and collaboration
- Ready to use PLM business processes,
- Lower cost of ownership.

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 130,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes applications provide a 3D vision of the entire lifecycle of products from conception to maintenance to recycling. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product - DELMIA for virtual production - SIMULIA for virtual testing - ENOVIA for global collaborative lifecycle management, EXALEAD for search-based applications- SolidWorks for 3D mechanical design and 3DVIA for online 3D lifelike experiences. For more information, visit http://www.3ds.com.

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An **ENOVIA PLM** Datasheet