

Aerospace & Defense Accelerator™

For Program Management

Managing Aerospace and Defense (A&D) programs is very challenging. The product itself — which often stretches the limits of technology — is usually difficult enough, but ensuring compliance with all contractual requirements and regulations while sticking to promised schedules is the source of many headaches. Having been in the vanguard of adoption of many IT solutions over the years, the A&D community is unfortunately left with a mix of specialist tools which share information poorly at best. The resulting gaps cause miscommunication, errors and time delays. To meet all contractual obligations in a reliable and efficient way takes a solution that integrates the critical information of the program management domain in one consistent whole.

The MatrixOne Aerospace & Defense Accelerator for Program Management from ENOVIA MatrixOne provides such an environment. In it, the information about requirements, product architecture and configuration, projects and schedules and deliverables are all integrated to improve the overall performance of delivery-to-contract.

- Requirements, whether contractual or technical, are captured for sharing with the extended team and decomposed to the level of detail needed for precise management and traceability
- The product is defined conceptually to identify configuration, functional and physical items which may include support equipment and other non-product items. These items become the references for collections of conceptual designs and analyses
- Requirements are allocated to conceptual items to ensure proper distribution to development and test teams and ensure later traceability
- The product variants and their serial-number builds can be established to convey functional intent and ensure precision of subsequent test planning and execution
- Outline projects with critical milestones and deliverables are defined and linked to the product architectures
- CDRL and SDRL requirements and their deliverables are defined as tasks for assignment and future completion
- Roadmap and dashboard views provide real-time, clickable summary information on the condition of the program

Among the roles that can benefit from these capabilities are program managers, contracts managers, product controls, systems engineering, subcontracts management and data managers.

This solution is delivered on the flexible and scalable ENOVIA MatrixOne PLM platform that supports many other business process applications needed by A&D organizations. These applications operate on the same data base as the program management solution providing de facto integration for all participants.

Industry Accelerator



With the MatrixOne Aerospace & Defense Accelerator for Program Management, program performance-to-contract can be enhanced in multiple ways:

- Program managers can improve communication across the entire program team – including external partners and off-site locations
- Program teams can routinely earn Award Fees for their enterprise with a perfect contract data performance record
- Customer satisfaction can be improved through on-time and DID-compliant deliveries of contract data
- Penalties and late payments can be reduced with an integrated system to manage contract schedules and deliverables
- Failed audits can be eliminated with a repeatable and secure submittal process

"This set of integrated capabilities gives the program management team the tools to work in the same environment as the people they are trying to manage. The errors and inconsistencies that have stretched schedules and multiplied development costs for decades are finally being eliminated."

David Guzinsky,
GM, Strategic Business Solutions

Benefits of the MatrixOne Aerospace & Defense Accelerator for Program Management:

- Subcontracts managers can improve management of subcontract data deliverables
- Data managers can improve visibility to delinquent submittals with real time reports across all contracts
- Submittal effort and cost is reduced for data managers because documents and contract information are consolidated into a single environment
- Reduce documentation rework for document authors with more effective reviews and electronic sign-off procedures
- Helps program managers ensure contract compliance by making requirements more visible to the whole team
- Secure on-line access for customers and partners

MatrixOne Aerospace & Defense Accelerator for Program Management Supported Capabilities:

- Capture and decomposition of requirements into manageable and traceable entities. Optional storage of document originals if any
- Definition of physical and functional product architectures for major versions of the product
- Allocation of functional elements to physical decomposition
- Definition of optional subsystems, compatibility and conditions of their use
- Allocation of requirements to features of the product architecture and to planned product versions
- Definition of product configuration variants
- Planning of physical product (serial-number) instances and mapping to relevant product configuration specifications.
- Program, contract and project modeling, high-level milestone definition, real-time task management, program and project dashboards

- Definition of roadmap views combining product and project domains
- Two-way, real-time integration to Microsoft Project allows milestone or task editing in MS Project, while project and task execution are controlled by PLM
- Secure access for customer, supplier and partner personnel into relevant aspects of product architecture and projects
- Contract data deliverables management in support of standards such as:
 - Federal Acquisition Regulation (FAR)
 - DoD Federal Acquisition Regulation Supplement (DFARS)
 - NASA Federal Acquisition Supplement (NFS)
 - DOD-STD-1700, Data Management Program
 - DODI-5000.2, Operation of the Defense Acquisition System
 - DOD 5010.12-L, AMSDL
 - DD Form 1423, CDRL; DD Form 1664, DID, DD250
 - DOD-STD-963, Data Item Descriptions (DIDs), Preparation of MIL-STD-1806, Marking Technical Data Prepared by or for the Department of Defense Public Law 98-5777
 - MIL-HDBK-881
- Access to program management and product architecture from a Web browser or via Windows desktop

Optional Capabilities:

- Real-time metrics on performance of data deliverables tasks.¹
- Synchronization of product architecture with detail design, parts and bill-of-materials for improved program execution.²
- Integration tools for connecting to existing systems

¹ Requires MatrixOne Business Metrics Module

² Requires MatrixOne Engineering Central

To learn more about how your company can benefit from ENOVIA MatrixOne PLM solutions, call us today at 978 589 4000, or visit MatrixOne.com

The ENOVIA MatrixOne PLM Environment

Being the industry's most robust and flexible PLM environment, ENOVIA MatrixOne provides organizations with a single, secure environment that eliminates the barriers caused by geographically dispersed organizations and value chains, multiple disparate systems and increasing security requirements.



About ENOVIA MatrixOne

MatrixOne, Inc. was acquired by Paris-based Dassault Systèmes in May, 2006 and today is part of its ENOVIA PLM Collaborative Environment family of solutions. The ENOVIA MatrixOne solutions enable companies to accelerate product innovation to achieve top line revenue growth and improve bottom line profitability. ENOVIA MatrixOne is focused on helping companies across the automotive, aerospace & defense, consumer, machinery, medical device, semiconductor and high-tech industries solve their most challenging new product development and introduction problems. More than 850 companies use ENOVIA MatrixOne solutions to drive business value and gain a competitive advantage, including industry leaders such as BAE Systems, Bosch, Comau, General Electric, Honda, Johnson Controls, Linde AG, NCR, New Balance, Nokia, Philips, Porsche, Procter & Gamble, REI, Sony Ericsson, STMicroelectronics and Toshiba. ENOVIA MatrixOne (www.MatrixOne.com) is headquartered in Westford, Massachusetts, with locations throughout North America, Europe and Asia-Pacific.



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