

CACI's Model-Driven Design and Implementation for System Engineering (MDDI SE)

Accelerating Systems Solution Delivery



CACI's Model-Driven Design and Implementation for Systems Engineering (MDDI SE) methodology is a substantial shift from stove-piped, document-centric processes to a dynamic, digital engineering environment that enables rapid on-demand analysis and prototyping of new and consolidated capability solutions. CACI has applied MDDI SE for business and mission systems to provide full requirements traceability, auto-generate contract data requirements list (CDRL) documentation, and trace enterprise standards to achieve compliance requirements. MDDI SE differs from traditional systems engineering by providing central governance over collaborative, distributed lifecycle execution integrated with a living digital modeling environment that reduces risk, accommodates automatic impact analysis when new and changing requirements are introduced, and affordably expedites new capability delivery.

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Features:

- Transparent, architecture-centric system development lifecycle
- System-of-systems complexity management
- Fully traceable requirements from customer requirement to solution implementation
- Continuous system verification and early validation
- High-quality software that addresses customer needs
- Enterprise reusability and interoperability
- Business process modeling through end-to-end integration of processes and implementation

Benefits:

- Visibility into all organizational efforts via shared repository to enhance and maintain legacy systems, or develop new systems
- Fully compliant with Department of Defense, U.S. Government, and industry open standards
- Existing project assets reused to lower risk, reduce cost, and meet schedules

MDDI SE's integrated architecture efficiently identifies customers' optimal target business processes, reducing the cost and risk of implementation.

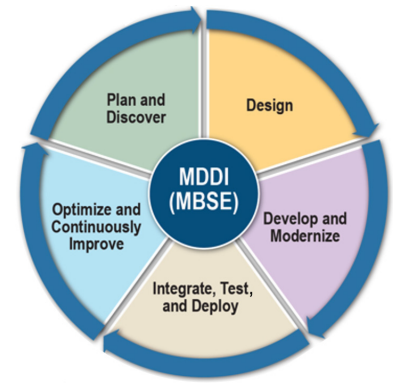
MBSE = Model-Based Systems Engineering

MDDI provides stakeholder-specific dynamic viewpoints using technologies and methodologies that enable full visibility of system lifecycle information throughout the system engineering process. The integrated repository allows customers to capture all pertinent information in one place, providing organizational specifications that document both the current information environment and future end states. Program managers and other stakeholders always have access to relevant information that facilitates decision making.

MDDI modern technologies allow for digital views of the same element across dynamic contexts enabling reuse. This helps customers save time, achieve agility, and streamline reuse. With our model-based, integrated approach, updated information is reflected in all documents that leverage the repository information. We generate system specifications directly out of this repository, making information more accessible, updatable, discoverable, and maintainable.

Our integrated architecture supports adaptation and incremental capability delivery to help customers reach their target end state. This improves system development cycle time by rapidly accommodating changes such as new requirements. For example, each year a customer can easily assess their target requirements and capabilities, whether they have been reached, and what they will be for the following year.

With MDDI SE, we save our customers considerable time and reduce cost by performing more comprehensive analyses of customer capabilities and requirements up front to better inform the development of system architecture and design specifications and accelerate implementation. Systems are maintained and enhanced directly from an integrated repository, so when customers request new requirements, we can determine the impact of these requirements on their existing architecture, design, and implementation.



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