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 experts have applied MDDI SE for business and mission systems to provide full requirements traceability, autogenerate contract data requirements list (CDRL) documentation, and trace enterprise standards to achieve compliance requirements. **MDDI SE enables collaborative, distributed systems engineering lifecycle execution that is integrated with a living digital modeling environment. This reduces risk, accommodates automatic impact analysis when new and changing requirements are introduced, and enables more affordable and efficient capability delivery.**

For more information, contact:

Thomas Mielke
(202) 815-6202
tmielke@caci.com

For more information about our expertise and technology visit:
www.caci.com

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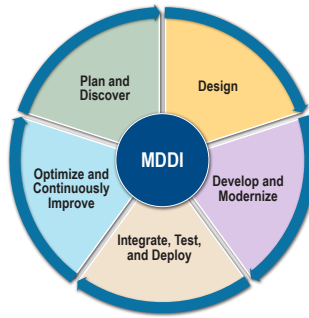**EXPERTISE** AND **TECHNOLOGY** FOR NATIONAL SECURITY

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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

- Cybersecurity controls and requirements mapping to facilitate secure systems architecture

- 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 solution processes, reducing the cost and risk of implementation.

MDDI SE 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 SE 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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Worldwide Headquarters
12021 Sunset Hills Road, Reston, VA 20190
703-841-7800

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www.caci.com

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