

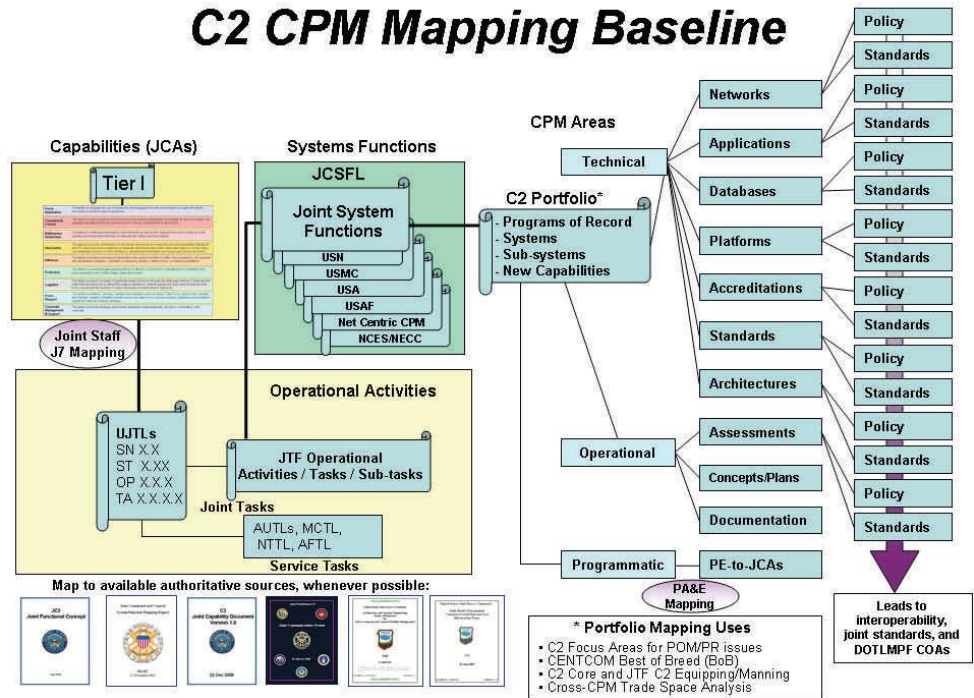
**Teamcenter® Systems Engineering, Enterprise Architect® and DoDAF**

In the government and industry sectors we have been locked into a document focused way of doing business for decades. Recently there has been a tug of war between data centric and document centric design process in the acquisition and product development lifecycles and now there are merging methods driving our future:

- Model Based Systems Engineering,
- Model Driven Architecture, and
- Capability Portfolio Management

These are the emerging modern day methods that address the needs of architects, systems engineers and management to effectively work in an increasingly complex acquisition and product development lifecycle.

**C2 CPM Mapping Baseline**



**Enterprise Strategies Inc. (ESI)** is a Siemens and Sparx Systems Value Added Reseller and is uniquely positioned to provide you with an enterprise solution. ESI provides a full range of consulting and implementation services, including a program designed to meet your needs with process analysis, systems engineering process execution, enterprise architecting and personalized, comprehensive solution training.

**Sparx Systems** specializes in high performance and scalable visual modeling tools for the planning, design and construction of software intensive systems. Sparx Systems and Siemens PLM Software integrated their flagship products Enterprise Architect and Teamcenter Systems Engineering to provide the only solution that provides architecting, systems and software engineering methodologies in an integrated system. This collaborative solution provides architects, engineers and managers with easy access to UML, SysML, BPMN and UPDM modeling for systems engineering, DoDAF, software engineering and architecting process execution.

**Siemens**, the global leader in Product Lifecycle Management, extended the Teamcenter® Systems Engineering (TcSE) tool suite with a DoDAF Module that enforces architecture data management and architecture development processes in accordance with the DoDAF standard. With data centricity and process governance built into the TcSE DoDAF Module the views prescribed by the standard are a snapshot of data while the Teamcenter Systems Engineering database maintains a living view of the data that can be base-lined at any life cycle milestone.

## DoDAF v2.0 is coming! Are you ready?

Considering that the pre-milestone A stages can influence a vast majority of your program costs, streamlining the initial phase becomes vital to your overall success. Working with ESI, you can connect your users (operators) with global access to the entire lifecycle in a real-time environment, while enabling you to:



- Maximize innovation throughout the acquisition lifecycle,
- Get solutions to the war-fighter faster,
- Accelerate your program portfolio decision-making processes,
- Identify which programs are performing most effectively,
- Manage then diverse set of knowledge in your organization,
- Achieve a faster, fully digitalized lifecycle environment.

**Case Study:** The DoD Enterprise Architecture Award Winning Joint Command and Control (C2) Architectures and Capability Assessment Enterprise (JACAE) System

JACAE was developed by USJFCOM's Joint Capability Development Directorate (J8) under the Joint Architectures & Capability Engineering Division (J89) to support architecture development, analyses, capability assessments, and Capability Portfolio Management (CPM). JACAE is an aggregation of sound architecture and analysis methodology and processes, and an integrated tool suite.

JACAE uses the SGS Teamcenter® Systems Engineering system as its foundation and takes advantage of the web-enabled Microsoft Windows Client Platform with MS Office Professional Interface (Word, Excel, and Visio). JACAE provides:

- Enterprise level Configuration Management and Change Control,
- Quality graphics available As Stencils/Icons for Platforms, Weapons Systems, Support Equipment, System Functions and Operational Activities,
- Data Centric Environment, including an extensive schema with customized object attributes and relationships compliant with DoDAF 1.5 and 2.0 meta-models,
- Auto-generation of DoD Architecture Framework views and creation of integrated hybrid views (such as a joint OV-2 and OV-5),
- Reusable enterprise information modifiable at the project level,
- A State of the art system infrastructure and DBMS.

The JACAE process enables analysis through the C2 Capability Mapping baseline. This mapping is critical to both help define and bound the portfolio, and to provide a framework within which to focus analysis and assessments on total capabilities, vice programs and systems. The JACAE process enables mapping between:

- Joint Capability Areas (JCAs),
- Universal Joint Task Lists (UJTLs),
- Operational activities (Joint Task Force Level),
- System functions via the Joint Common System Function List (JCSFL), and
- Networks, Standards, and Policies.