

Collaborative Data Objects

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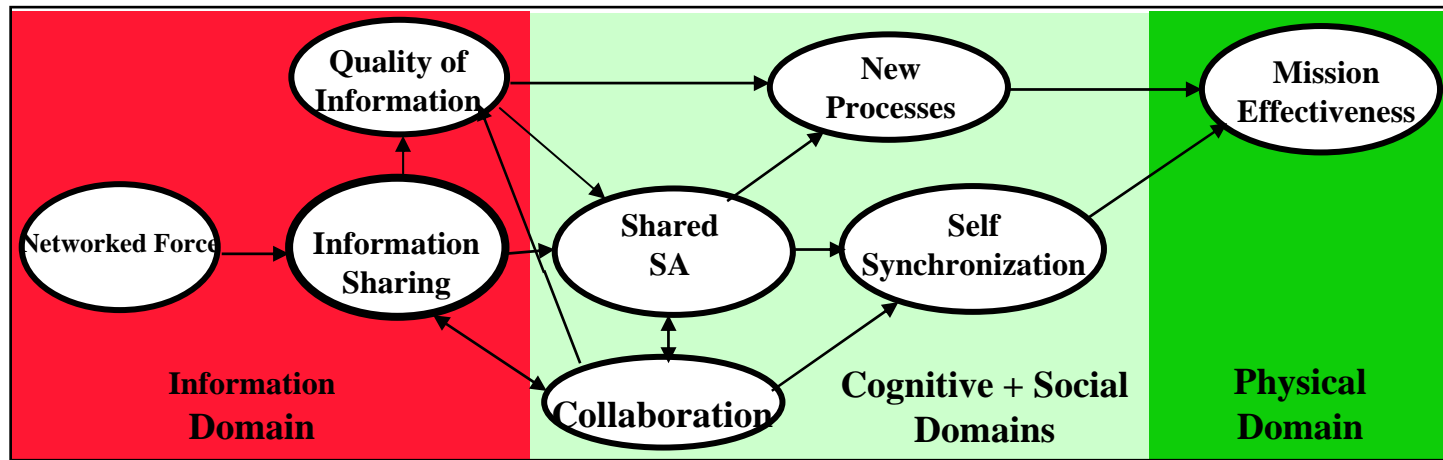
**MITRE
Technology
Program**

Problem

- **Chat is not cleanly integrated with mission applications and the enterprise**
 - **Data exchange between chat and the enterprise is lossy**
 - **Brevity sometimes causes ambiguity and misunderstanding**
 - **Data quality/fidelity/accuracy/timeliness are impediments**
 - **Chat suffers from lack of rich data structures available elsewhere in the enterprise**

Background

Net-Centric Operation Value Chain



Though poorly integrated with the enterprise today, text chat is widely used for everything from situational awareness to coordination and decision support. Chat has proven valuable as a simple, effective, means for distributed collaboration.

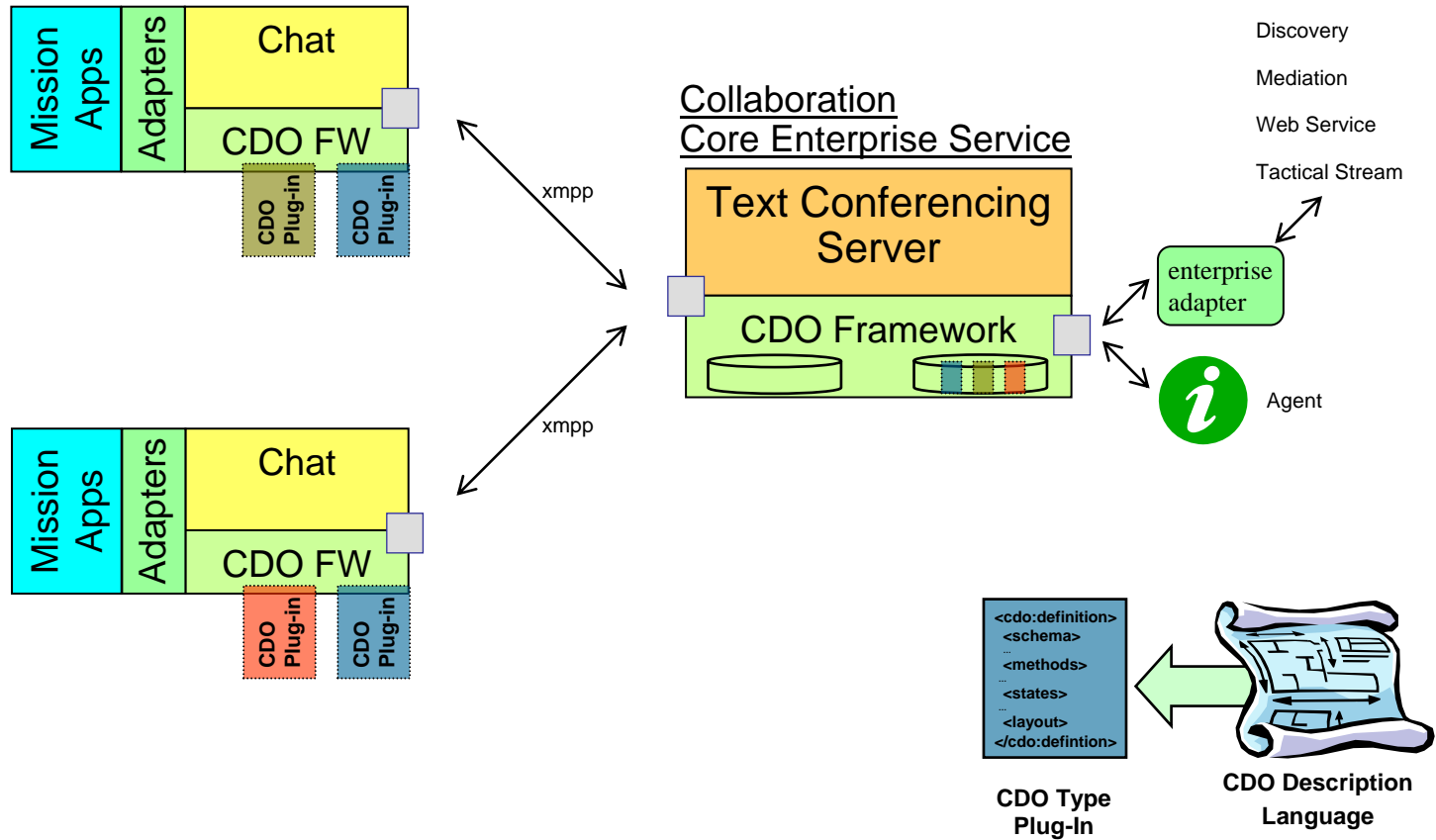
Objective

- **Make chat sessions more valuable (to the enterprise) by reducing current problems/restrictions**
- **Research a means to add a foundation of rich data objects to chat and the opportunities afforded**
- **Determine whether structured data in addition to text chat improves collaborative decision making**

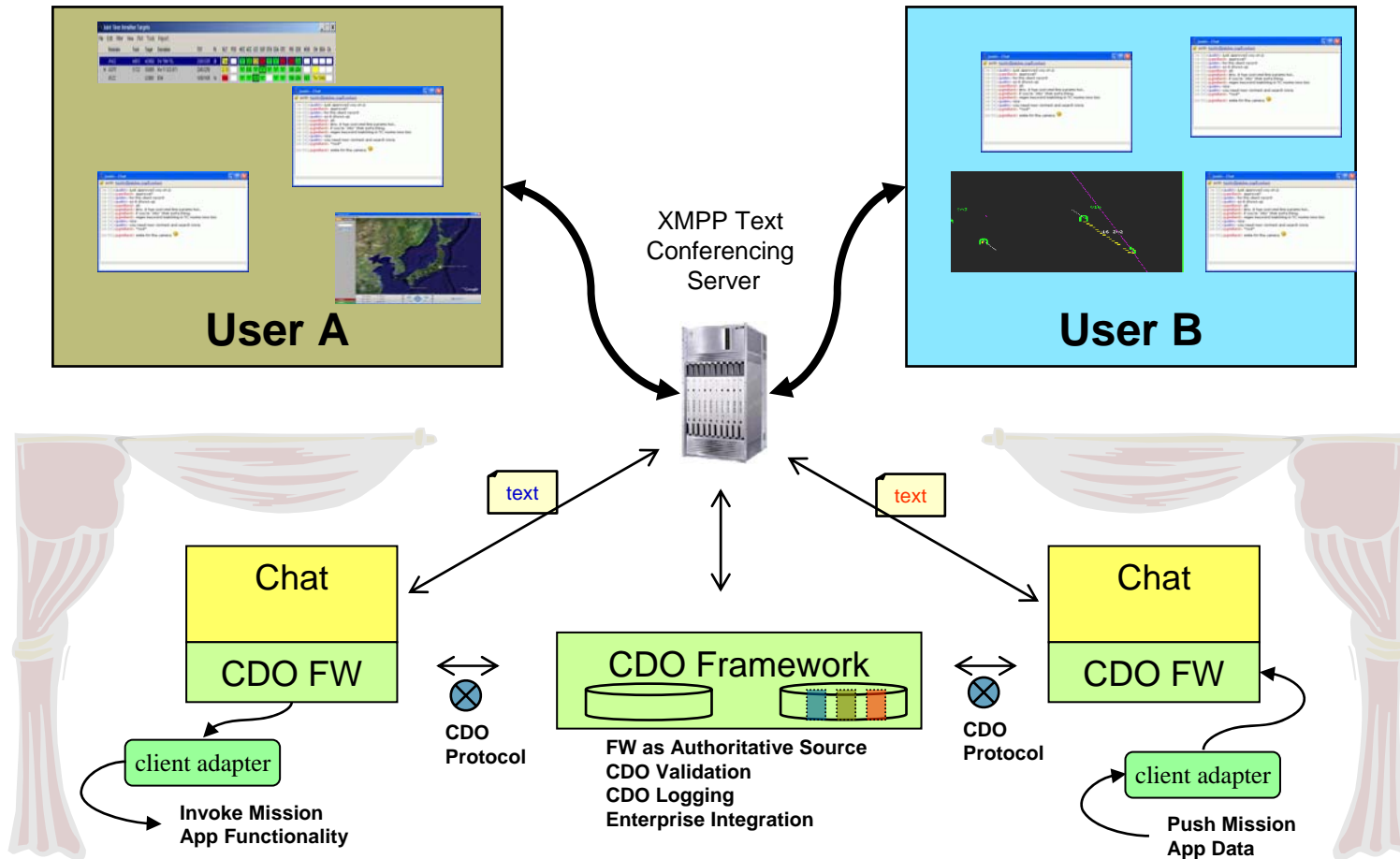
Activities

- **Define and document a framework for hosting collaborative data objects (CDOs)**
 - **Framework manages CDOs and interactions with external services/systems**
- **Description language to define CDO types**
- **Extend open-source client to support creation, update, and display of CDOs and invocation of external services**
- **Define CDO interaction protocols**

Highlight



Demonstration



Impacts

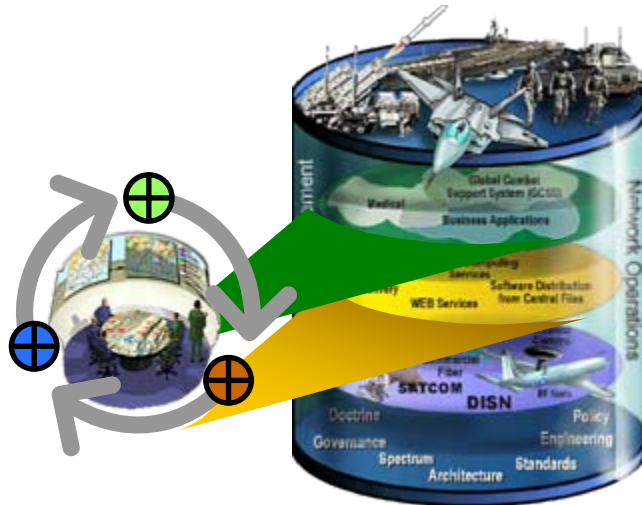
■ Operational impacts

- Increased speed, agility, and quality of data focused on collaborative decision making, SA, information production, and exploitation
- Reduced ambiguity and operator overload

■ Technical impacts

- A generalized framework for integrating collaborative environments with application/enterprise information services
- Influence standards and industry/open source investment

Future Plans



- External integration model
- Additional CDO descriptions/types
- Tutorial on CDO types
- Value Assessment



- Document protocols (JEP)