USTRANSCOM Science and Technology

Semantic Ontology Effort for Common Operating Picture (COP) Deployment and Distribution (D2)

Project Summary: The Semantic Ontology Effort will provide USTRANSCOM with an enhanced, operational-ready mechanism for both requirements submission and solution set decision support, based on semantic technology. This effort will improve the quality of requirements as they are captured and will more clearly link them to the JDDA-E artifacts, thus increasing the effectiveness of these artifacts role in supporting the CSV Governance Process. This project will leverage semantic technologies to extend the JDDA-E artifacts and provide a machine

understandable format to expose the artifacts and allow them to be exploited by intelligent publication mechanisms, automated decision support mechanisms, and machine-learning techniques.

Return on Investment: The Semantic Ontology Effort will minimize redundancy and identify gaps based on the functional need by mapping a requirement to the architecture (joint capability areas, operational activities, performance metrics, information needs, technical standards, etc.). This will provide an enterprise-level viewpoint to ensure capabilities are developed/reused in alignment with the prescriptive architecture.

Duration of project: FY08-FY13

Participants: USTRANSCOM

Project advocacy (funding or otherwise): USTRANSCOM

Transition: Project will include the transition plan for the integration of the decision support mechanisms into existing USTRANSCOM requirement management tools. The task will provide a transition of all software and services developed during this project into USTRANSCOM operational environment.

USTRANSCOM POC office code: TCJ5-JT/618-229-1109