Autonomous Response to Unexpected Events in DoD Terminal Operations (ARTUE–DTO)

Project Summary: ARTUE extends the traditional artificial intelligence planning architecture with capabilities to detect unexpected events in the environment, explain them, formulate goals in response to them, and manage multiple goals. ARTUE-DTO investigates application of ARTUE to improve the individual and collective efficiencies and responsiveness of Military transshipment terminal operations within an integrated defense transportation network.
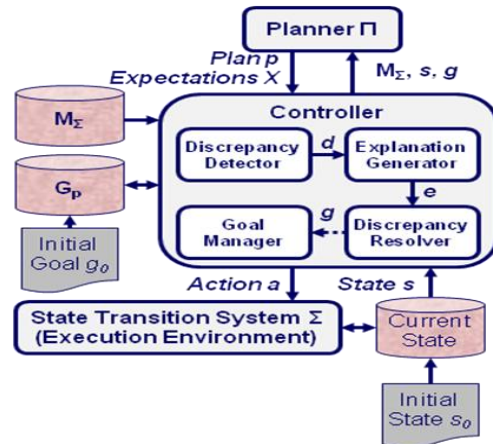
Return on Investment: Produce a decisions-support capability that provides improved efficiency and responsiveness to terminal operations—and thus to the globally distributed transportation network. While increased efficiency helps decrease the cost of day-to-day operations, increased responsiveness helps reduce the impact of unforeseen events and provides increased time-critical mission options to war fighters.

Duration of project: FY12-FY14

Participants: Military Surface Deployment Distribution Command (SDDC)

Project advocacy (funding or otherwise): United States Transportation Command, SDDC, Naval Research Lab

Transition: The ARTUE-DTO capability exploits the information available through the Service Oriented Architecture services of the distributed Integrated Computerized Deployment System Collaborative Information Workspace deployment nodes and executes against the program of record's data and information feeds.

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