

# Intelligent Agents for Coalition Search and Rescue

J. Dalton, C. Siebra & S. Aitken - AIAI, Edinburgh  
 D. Shaw & A. Uszok - IHMC, Pensacola, Florida

## Description

Design and develop a demonstrator for Task Support in a realistic Coalition Search and Rescue scenario

Show the value of linking research at AIAI on I-X Task Support with IHMC work on Agent Policy and Domain Services - to support the I-K-C tool - Workflow Planer utilizing feedback

Descriptions of country infrastructure

Descriptions of agents and services

Work back to the OWL-S development community are being provided

Standards efforts via W3C SWS-IG

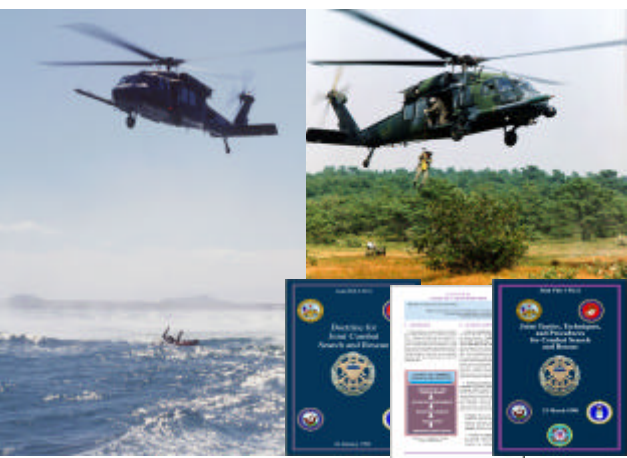
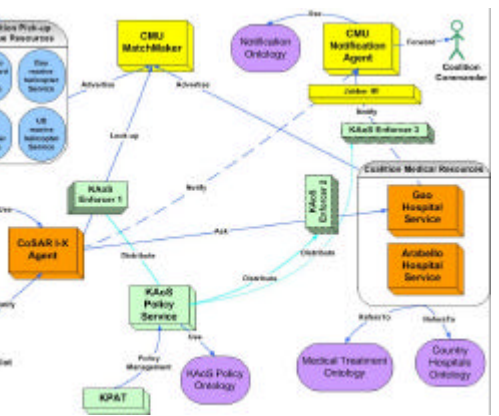


Photo: US Air Force Photo Library

## Results

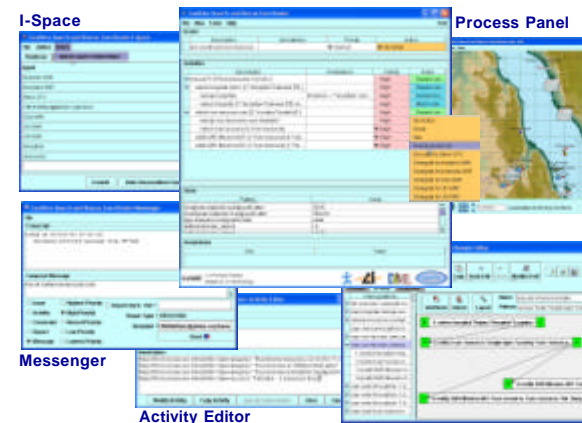
- Direct OWL file processing from I-X of BBN ENP database via HP Jena Toolkit
- SOAP access to SAR Resources described from KAoS and I-X via CMU Matchmaker
- Integration with CMU Intelligent Notification
- Declarative representation and reasoning about KAoS policy and domain information in OWL
- Complexities of coalition organization represented in KAoS domains
- KAoS policy-governed access to Semantic information and services
- Use of KAoS to dynamically determine I-X and human relationships (subordinates, superiors)



COSAR-TS Demo Components



KAoS Policy and Domain Services



I-X Task Support Tools