IAC Mission Success Stories

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Information Assurance Technology Analysis Center (IATAC)

IATAC Story 1 Story 2

Joint Master Scenario Events List (JMSEL) Exercise support

IATAC developed JMSEL in support of U.S. Pacific Command (USPACOM)and the Joint Staff. JMSEL provides a comprehensive, integrated exercise support tool providing functionality and support to the development of exercises supporting the full spectrum of exercise design. This can range from small focused single exercises to large, distributed multi-lateral exercises. This system supports exercise design, planning, exercise document development, exercise management, suspense, and tasking. JMSEL is designed to support geographically dispersed organizations in a collaborative, data-sharing environment. It was developed to support operational exercise development requirements. JMSEL supports a wide variety of functional areas. Exercise players access the data via client/server and Web-based user interfaces. It can support exercises on anything on which people work and want to train on.

Continued on Story 1

Iridium Pocket COP

The Iridium Pocket COP was a proof of concept demonstration under IATAC TAT 41 supporting Air Force Electronic Systems Center ESC/MS MILSATCOM. The system consists of portable data terminals for data transmission over the Iridium commercial satellite network. These data terminals are carried by Forward Observers (FOs), Special Operations Forces (SOF) or Recon teams on the ground. The system was tested to assess: the two-way data link capability between Joint STARS and a ground operator as a commercial MSS augmentation to MILSATCOM; to provide data for position correlation analysis for Iridium Pocket COP, Time Space Position Information (TSPI) and Moving Target Indicator (MTI) and to provide a scenario for 93rd Air Control Wing (ACW) evaluation.

Continued on Story 2

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Joint Master Scenario Events List (JMSEL) Exercise support (continued)

JMSEL provides robust exercise planning and management support and provides synergy to maximize the capabilities of people, teams and organizations during exercise planning and execution. JMSEL supports exercise design from small-scale exercises to large complex multifaceted exercises. The system is user-friendly allowing people to quickly learn the system and make maximum use of the system capabilities.

The system also supports lessons learned development and data gathering during post exercise operations. This allows exercise designers to manage and plan their programs and respond to organizational data calls. JMSEL provides data ownership protection, it does not require massive data entry, the system can process classified and/or unclassified data, and uses open technology solutions, including the web.

JMSEL was chosen by the Joint Staff as the joint exercise control tool of choice in a "fly-off" of tools used by the CINC community. JMSEL was endorsed by SPACECOM, NORAD, TRANSCOM, U.S. Forces Korea, U.S. Forces Japan, and is currently being rolled out for use at all Unified Combatant Commands.

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Iridium Pocket COP (continued)

The test had three objectives:

1. To test two-way data transmission from ground
2. To test two-way data transmission in flight, and
3. To collect positional data.

The test results successfully demonstrated the two-way data transmission, resulting in 20 messages received from ground to aircraft and 20 messages transmitted from aircraft to ground. The flight test results were also successfully demonstrated with 71 messages received from the ground. Positional data was also successfully demonstrated with MTI and TSPI data collected.

IATAC observed that the Joint STARS Iridium Pocket COP Feasibility Demonstration accomplished the stated goals of assessing Iridium Mobile Satellite System (MSS) as augmentation to MILSATCOM and use of Windows CE based Iridium Pocket COP as a tactical computing platform. Additionally, the demonstration of "Human Target ID" and Time Critical Targeting capability provides Joint STARS with an Expeditionary Mission Capability "On Arrival" in the Battlespace. SOF may also use this capability for early entry Recon teams sending target ID, position, speed, and direction of travel from one of our Iridium Pocket COP Systems up to a second one on Joint STARS.

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