

Integrated Strategic Planning and Analysis Network (ISPAN)

Executive Summary

- Fielding of Integrated Strategic Planning and Analysis Network (ISPAN) Block 1 Spiral 1 into the production system occurred in July 2005 after successful Combined Test Force (CTF) directed testing. Additionally, the prototype version of the new framework software was installed in U.S. Strategic Command's (USSTRATCOM) Experimental Planning Laboratory for user experimentation.
- Prior to a spiral test, an assessment is conducted to determine risk and impact to the ISPAN system. The scope of testing is determined based on these assessments. All Block 1 spiral assessments are complete.
- USSTRATCOM is developing Joint Capability Integration and Development System documents for ISPAN Block 2.

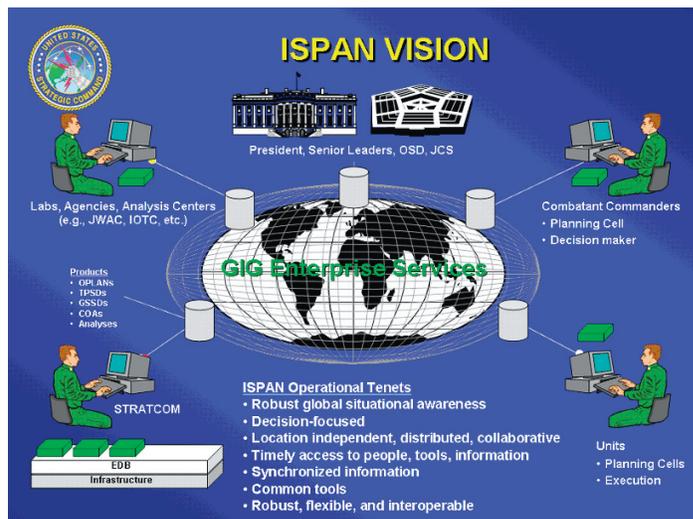
System

ISPAN is the operational information technology planning and analysis network modernization program for USSTRATCOM.

- Legacy ISPAN provides dedicated planning and analysis to create the national deterrence war plan for all U.S. strategic nuclear forces.
- ISPAN modernization expands planning and analysis to new mission areas including the use of non-nuclear forces and the employment of the full spectrum of kinetic and non-kinetic weapons into strategic and theater plans.
- Modernization occurs incrementally with new capabilities fielded and maintained as spirals every six months. The first block consists of five spirals. ISPAN modernization has three blocks scheduled to be completed in 2011.
- ISPAN is a mission critical computer resource under the Nunn-Warner Amendment and operates in TS-SCI/SIOP and Secret environments at Offutt Air Force Base, Nebraska.

Activity

- ISPAN modernization Block 1 Spiral 1 conducted testing in accordance with a DOT&E-approved Test and Evaluation Master Plan (TEMP) during May–July 2005.
 - Spiral 1 modernization consists of the initial architecture and integration framework for workflow management and optimization (which USSTRATCOM fielded to their Experimental Planning Lab) and a common report format for the legacy Global Strike Theater Support Documents fielded to the ISPAN production system.
 - Due to the low risk and impact of Spiral 1 to ISPAN, the test was conducted using a CTF observed combined developmental and operational testing.



Mission

USSTRATCOM utilizes ISPAN to perform deliberate and adaptive, strategic, nuclear and non-nuclear planning, and analysis.

- It helps develop the national deterrence war plans providing both nuclear and non-nuclear weapon options.
- It helps develop an integrated capability to provide planning and analysis for Global Strike and integration with Global Missile Defense, Global Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR), Space and Information Operations, and other new mission areas assigned to USSTRATCOM in support of the Joint Theater Commanders.
- To support continuous observation of ISPAN development and to ensure test personnel are familiar with capabilities developed during each spiral, the Air Force Operational Test and Evaluation Center (AFOTEC) established a three-person on-site test team. They are the core operational testers for ISPAN.
- DOT&E approved the TEMP Revision A on June 24, 2005, to support the testing of Spirals 1 and 2. DOT&E directed an additional TEMP revision to define the details of a planned operational assessment at Spiral 3 and a dedicated initial operational test and evaluation at Spiral 5.

- USSTRATCOM is developing new requirements documents for ISPAN Block 2. The program is completing Spiral 2 development and the CTF started combined developmental and operational testing in 1QFY06. Spiral 2 is low risk. It comprises:
 - Converting from the legacy SYBASE to an ORACLE database management system
 - Automating the process of integrating select conventional weapons into the planning and analysis process
 - Enhancing the production of Theater/Global Strike Support Documents

Assessment

- Prior to each spiral test, DOT&E, AFOTEC, USSTRATCOM, and the program office representatives conduct a risk assessment based on the modernization content of the spiral, the risk, and the impact to the production ISPAN system. The results of the assessments allow the test organizations to scope the spiral test and plan an adequate test.
- The AFOTEC memo was adequate to support a Spiral 1 fielding decision. A completed CTF report is required prior to fielding Spiral 2.
- The ISPAN Operational Requirements Document (ORD) does not adequately define the modernization requirements,

- capabilities, or performance measures for each of the ISPAN blocks. USSTRATCOM is writing a Capability Development Document for each of the remaining ISPAN blocks.
- The ISPAN Program Office has yet to meet Acquisition Decision Memorandum directed timelines for TEMP revisions. With adequate requirements documents, this should improve with Block 2.

Recommendations

1. USSTRATCOM should complete requirements documents for Block 2 to define the capabilities to be developed in Block 2. It should include appropriate key performance parameters, critical operational issues, measures, and thresholds.
2. The program should complete a revision to the TEMP. ISPAN Spiral 3 testing will not begin without an approved TEMP revision.
3. The on-site AFOTEC test team should continually collect effectiveness and suitability data on fielded spirals on a non-interference basis. The analysis of this data should be included in subsequent spiral test reports.