

SINGLE INTEGRATED AIR PICTURE

DESCRIPTION

The Single Integrated Air Picture (SIAP) is the air component of the Common Tactical Picture that is generated and distributed by the various sensors and command-and-control systems that make up the Joint Data Network (JDN). For the Marine Corps, the current SIAP sensors are the AN/TPS-59, AN/TPS-63, and the AN/TPS-73 radars. Current command-and-control systems are the AN/TYQ-23 Tactical Air Operations Module, the Multi-Source Correlation System, the AN/TSQ-131 Command and Control Sub-System, and the Air Defense Control Platform. Future systems include the Common Aviation Command and Control System, the Complementary Low Altitude Weapons System, and the Multi-role Radar System. The primary means of sharing the SIAP is through the components of the Joint Tactical Information Data System, also known as TADIL J, which feeds the JDN.

OPERATIONAL IMPACT

The anticipated improvements produced by SIAP will enhance the capabilities of our current and future

command-and-control systems and aviation platforms. A common tactical picture that is reliable and accurate will provide a significant improvement in our ability to employ our aviation assets and increase our combat effectiveness while preserving our warfighting assets.

PROGRAM STATUS

Fixes to the SIAP are being approached using a spiral development system supported by a series of block improvements developed by the SIAP Systems Engineering Task Force. Block 0 fixes are currently funded for implementation in Marine Corps systems that require them. Block 1 engineering tasks have been defined and the Marine Corps has included \$54 million to support Block 1 engineering and implementation. In 2003, the SIAP Systems Engineering Task Force, renamed the Joint SIAP System Engineering Office (JSSEO), initiated a program of integrated architecture behavior model (IABM) development. The IABM will unambiguously define the function and behavior of the systems that contribute to or utilize the SIAP, or both.

PROCUREMENT PROFILE:

Quantity:

FY 04

0

FY 05

0

DEVELOPER/MANUFACTURER

Multiple