

AIR COMBAT COMMAND PEOPLE FIRST - MISSION ALWAYS

AIRBORNE NETWORKING GIG INTERFACE (ANGI)

Current as of January 13, 2022

MISSION

ANGI provides a single consolidated global information grid (GIG) ground entry point (GEP) gateway for selected airborne and ground platforms to the Air Force Information Network (AFIN) Gateway. ANGI is configured to provide a secure, managed, enterprise gateway that enables Inmarsat's platforms and Iridium users to reach back into the AFIN to receive NIPRNet, SIPRNet, and other DISN services.

BACKGROUND

ANGI was created as a Joint Urgent Operational Need (JUON) solution for CENTCOM COMSATCOM BLOS in 2007. In March 2008, the Joint Surveillance Target Attack Radar System (JSTARS) program office briefed the Airborne Network Integration (ANI) Weapon System Review (WSR), on the need for a standardized way to access the GIG through BLOS and LOS communications systems, and expressed concern for the capability gap of each airborne platform being responsible for their own GEP solution.

ANGI's purpose was/is to consolidate GEPs and provide redundant communication paths by utilizing BLOS COMSATCOM for connections to the AFIN and the DoD Information Network (DODIN).

FEATURES

Supported through implementation of commercial Internet Protocol based SATCOM to provide BLOS communications. ANGI is designed with A and B sides at both sites for redundancy to meet the 99% availability key performance parameter. ANGI improves cybersecurity of aircraft platforms by enforcing bidirectional protections at each GEP. By leveraging shortest path routing, ANGI load balances platform traffic based on geographic location.

CAPABILITIES

Network transport, mission compatibility, network management, access to enterprise and AFIN services.

ANGI also provides basic network services, such as prioritization, Performance Enhancing Proxies (PEP), compression, network management, and Information Assurance (IA) for tactical disadvantaged users.

CHARACTERISTICS

Air Platforms can connect to AFIN data services with ANGI via IPSec (Inmarsat) and also through the Defense Switch Network via Iridium connections. The Iridium Network is a meshed constellation of interconnected, cross-linked satellites that provide communications to the polar regions. The call is relayed from satellite to satellite around the constellation without touching the ground until it is downlinked at an Iridium gateway and subsequently patched into the public switched telecommunication network (PSTN) for transmission to its destination.

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