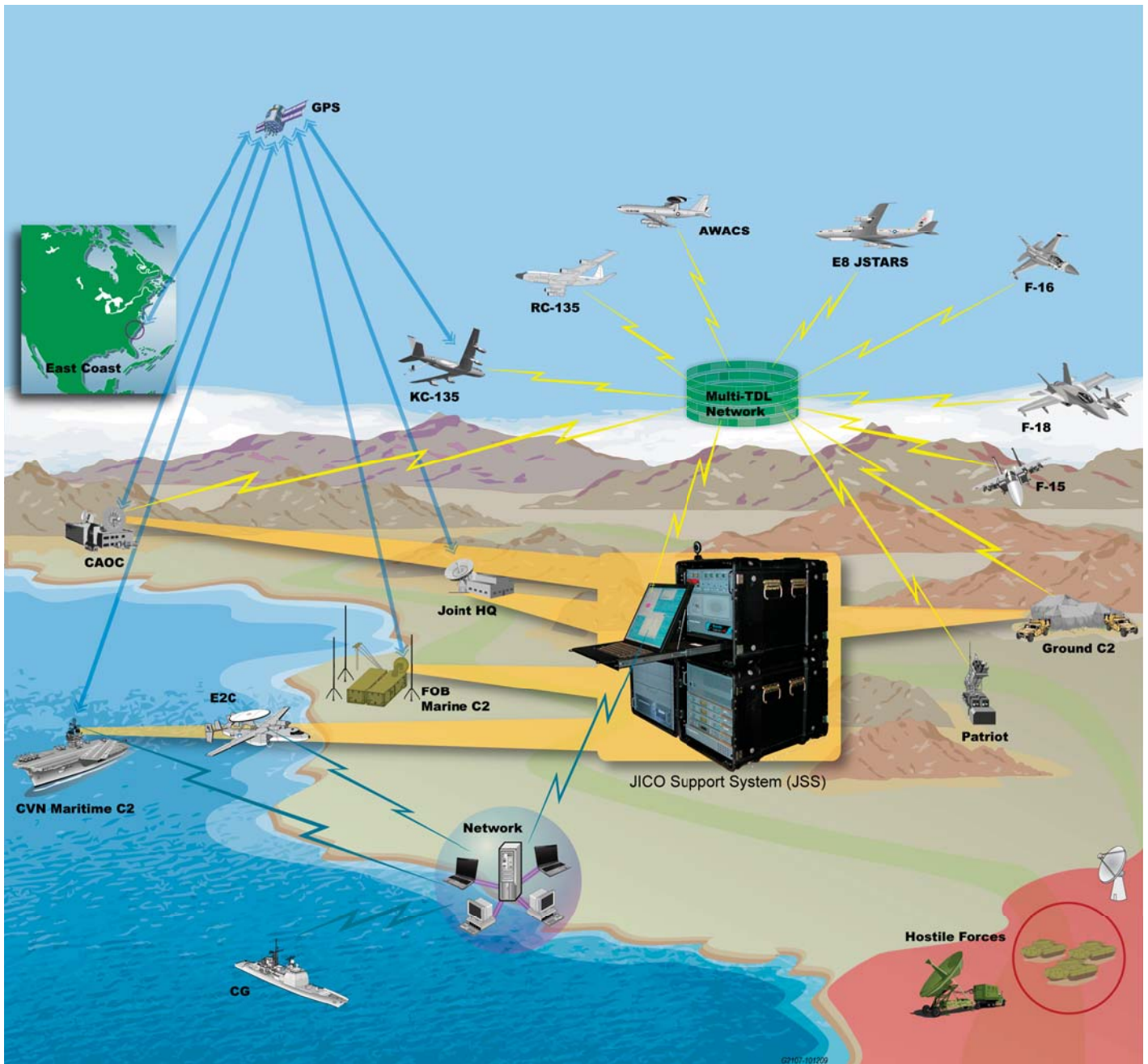


▼ Joint Interface Control Officer Support System

The next generation of joint and coalition network-management systems



The Joint Interface Control Officer (JICO) Support System (JSS) is the next generation of joint and coalition network-management systems.

Funded by the U.S. Air Force and developed by Northrop Grumman, the JSS enables the JICO to manage multiple tactical data links (TDL) in a joint Multi-Tactical Data Link Network (MTN) environment.

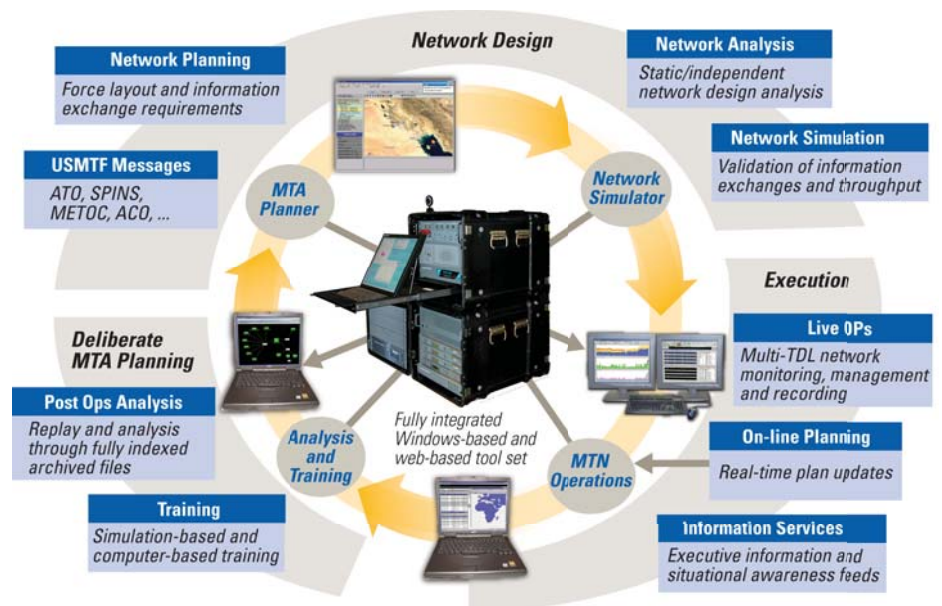
How JSS Works

JSS employs an open and scalable architecture of hardware and software components to achieve advanced capability in tactical network planning and management. Net-centric services achieved through a transformational management system enable IP-based networks of the future to operate efficiently with current tactical networks.

The JSS processing core consists of three servers and an Ethernet routing capability that can support secure local area networks.

Key Features

- Enables JICO to plan, manage and monitor the MTN through a common tool set
- Automates track data management, TDL coordination, voice and data communications management, computer-based training and scenario development
- Allows shared access to network planning information through its data repository
- Demonstrates robust data forwarding capability



JSS Operational Capability - JSS enables JICOs to manage several simultaneous networks and link tracks.

JSS Implementation

JSS establishes a coherent real-time common tactical picture using a dynamic, integrated network planning and management system to manage tactical communication radios and networks.

In the planning stage, the JICO coordinates with joint force participants who specify the planned assets and requirements. The JICO uses information such as radio/network characteristics, operational needs, terrain and gateways to develop the multi-TDL architecture (MTA) plan, which is then communicated to the participants.

During operations, all air, ground, maritime and intelligence assets inject information into the operational picture. The JICO uses the JSS to modify the MTA plan in response to changes in the operational environment and to monitor the status of tactical networks and gateways to ensure the information exchange requirements are met. The JICO can

issue dynamic network-management commands to modify the network architecture in real time to optimize ongoing military operations.

JSS ensures that tactical information relied upon by all units engaged in the operation is available to all participants, including strategic interdiction, surveillance and reconnaissance, close air support, theater air and missile defense, combat search and rescue and special operations.

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