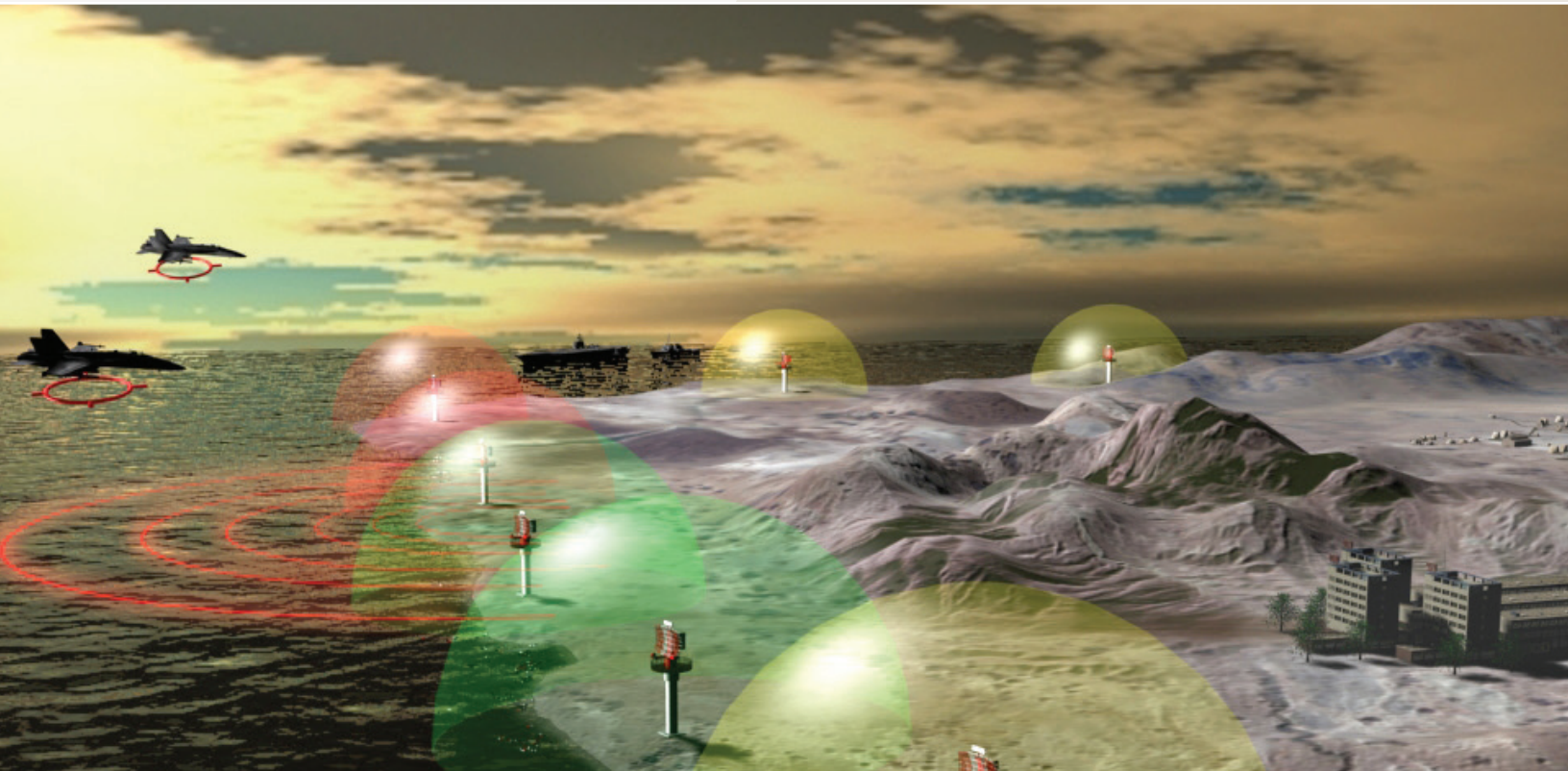


## ROCKWELL COLLINS LINK 16 GROUND SYSTEM

### Cost-effective command and control



Rockwell Collins' Link 16 Ground System (LGS) provides real-time, secure transfer of combat data for air defense without the expense of airborne assets.

**Rockwell  
Collins**

Building trust every day

## LGS – cost-effective command and control

*A complete countrywide solution for the management, command and control and monitoring of Link 16 and radars.*

Designed to control all the Link 16 terminals and radar data in a host nation using a cloud-based management solution, LGS provides centralized command and control (C2) of the network. LGS supports up to seven C2 centers. Operators in one C2 center can be dynamically reassigned to a new sector.

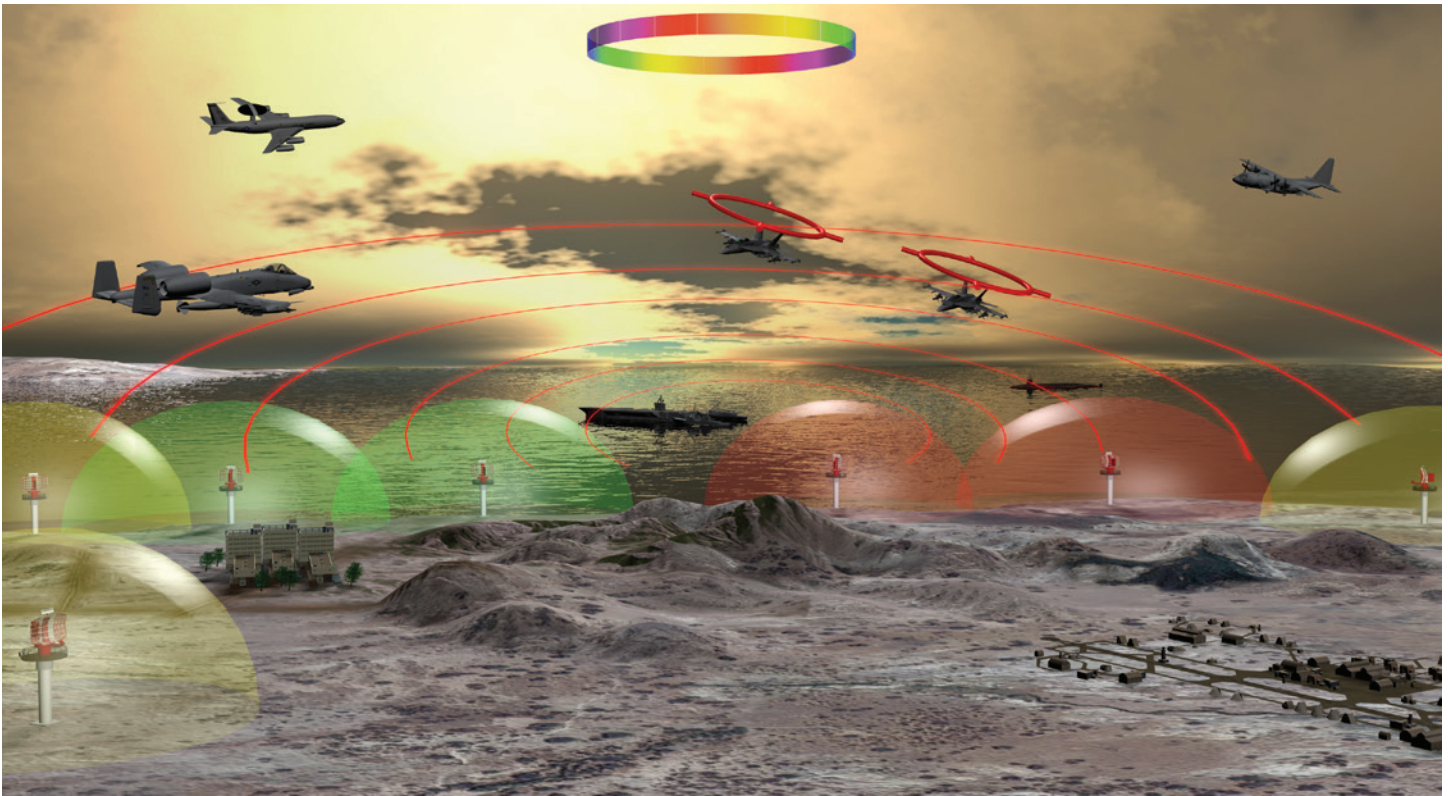


*The system is fully hot swappable, supporting real-time, hot backup in case of system failure or direct attack.*

The LGS utilizes ground-based TDL infrastructure, terminal base stations, gateways and dynamic routing to effectively construct a virtual E-3 that provides Link 16 network coverage, situational awareness and command and control for your Link 16-enabled assets.

- LGS is designed to be quickly modified (without source code changes) to interface with legacy systems
- Provides real-time hot backup. Operators are automatically switched among radar/Link 16 hardware whenever there is a failure.
- Each C2 center has access to the total pool of base stations distributed around the country. This increases the range of center and adds redundancy.
- Connectivity calculations are used to select which base stations are used to transmit to a fighter
- Unlike C2 aircraft, LGS has better connectivity and is operational 24/7
- Supports five independent Link 16 networks, which enables training networks to remain coordinated with the operational Link 16 networks
- Nationwide system management allows for the remote management and reconfiguration of all the LGS assets
- LGS has a MIL-STD-6016 compliant correlator that combines the radar picture with the Link 16 picture to ensure the optimal track data is always on the network





### See everything from anywhere.

With Rockwell Collins' LGS, you can perform air interdiction mission management, assignment and command and control all from one central ground location. Radar surveillance data from airborne and ground-based radars can be combined to create a single integrated picture.

### Fixed and mobile base stations.

The Rockwell Collins LGS represents the latest generation of Link 16 equipment, incorporating secure data and voice into a single, small, affordable and highly reliable unit. Base stations can be installed in existing ground facilities or supplied in ruggedized air/road transportable containers.

### Remote communication.

A unique capability to the LGS solution is the ability to remotely control MIDS LVT terminals. An operator can Standby/On, and even power off the terminals via Ethernet. This is unique to LGS and gives nations better access to terminals in isolated locations or that are difficult to access during certain seasons of the year.

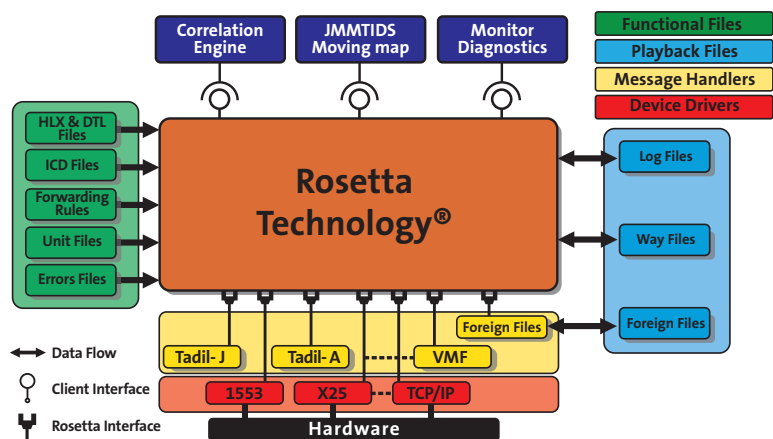
### Nothing lost in translation.

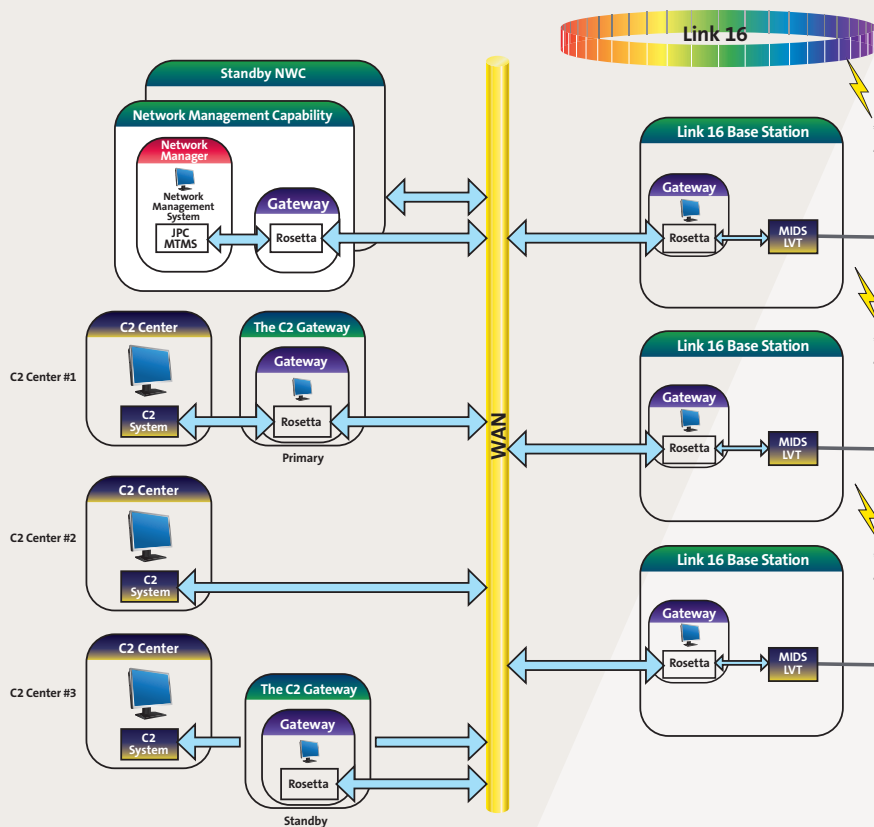
Rosetta Technology® from Rockwell Collins makes sure nothing is lost in translation between your C2 operators. Rosetta is a software-based data-link forwarding and translation engine that enables the remote operating, loading and management of Link 16 terminals.

### Rosetta does this as three total steps:

1. Read the information from the radar system.
2. Translate to Real-time Query Language (RQL), keeping all relevant information in its native format.
3. Translate to the host nation C4I solution.

Since data is not translated and modified from format to format, information is always kept relevant and accurate.





### Key features of LGS

- > Centralized C2 on Link 16
- > Direct access to radar/sensor data
- > Fuse radar tracks with Link 16 tracks
- > Mission management/assignment capability
- > Performs features and functions of Air Intercept Control
- > Controls fighter aircraft on Link 16, assigns targets and manages missions among multiple flights
- > Real-time hot backup
- > Simultaneously supports multiple Link 16 networks

### Building trust every day.

Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

### For more information, contact:

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