SAIC's JRE and Boeing's E-7A Wedgetail: Reaching Forward

Enhancing the Airborne Early Warning (AEW) aircrafts capabilities,
JRE will bring a Beyond Line-of-Sight (BLoS) JREAP-A functionality to the aircraft.

SAIC's Joint Range Extension Program: Integrating onto Boeing's E-7A Wedgetail Airborne Early Warning and Control (AEW&C) Aircraft

- JRE server running on the E-7A Mission Computer System.
- Forwarding of BLoS and sensor originated tracks from the Mission Computer System via JRE to ground stations over SATCOM radio.
- Supporting a static pre-configured image with post deployment tailoring of mission specific parameters configured pre-flight, and reconfigurable in-flight.
- Multi-client capable for in-flight monitoring of the Link-16 picture, terminal status monitoring and filter reconfiguration.

BLoS Tactical Data Links to the Boeing E-7A Wedgetail

On the ground: Warfighter chosen.

- **Easy to Use.** JRE is intuitive and takes only a few hours to learn, having minimal training time and cost.
- **Saves Lives.** Combat forces need JRE's near-real-time data and battlespace visualization to save lives.
- **Reliable.** JRE has the lowest latency and loss rate of any gateway and enhances overall network throughput.
- **High Performance.** With its 20,000 track capacity, JRE surpasses all other gateways when handling large track counts. JRE's source selection, duplicate track elimination and extensive filtering capabilities enhance battlespace situational awareness accuracy.

In the Air: Flexible for Platform Integration.

- **Passive Monitoring.** Extending the MCS capabilities, JRE receives data monitored by the MCS for forwarding to SATCOM without affecting MCS data pathways.
- **Easily Integrated.** JRE is a software-only gateway with the ability to run on nearly any processor. This negates the need to buy additional hardware and reduces the impact on the airborne platform's size, weight, power, and cooling restrictions.
- **Adaptable.** Software and hardware agnostic, JRE is highly configurable and since it has preexisting flight certifications, it can be run on other airborne platforms without additional, or at least with minimal, further qualification retesting.
- **Mission Configurable.** Post deployment installation of mission specific parameters reduce operations overhead.

Contact

Gavin T. Dickman
307.703.4919
gavin.t.dickman@saic.com

20-0058 | SAIC COMMUNICATIONS

SAIC.COM

SAIC® Redefining Ingenuity