



JOINT RANGE EXTENSION

Gateway to the common operational picture

Complete battlespace awareness with digital command and control

- Extends the reach of tactical data across the battlespace and around the globe, providing the real-time situational awareness needed for mission success
- Combat proven with an unmatched record of performance, reliability, economy and agility
- Delivers the common operational picture needed to understand the environment and execute the mission



Key features

- 00+ configurable data links and 20,000+ track processing capability
- MIL-STD compliant – 6016E, 3011, 2525C, 6011, and 6020
- JRE Application Protocol (JREAP) Appendix A/B/C (including TCP/IP, UDP Unicast and Multicast)
- Variable Message Format (VMF) – MIL-STD 2045-47001 B/C/D Ch1; K/J Message Forwarding
- Legacy implementation for UHF DAMA S-TADIL-J (RS-232), serial and TCP/IP BLOS connectivity
- Link-16 MIDS/JTIDS terminals (1553 and IP) – transparent gateway and terminal emulation
- Situational Awareness Data Link (SADL) gateway or host FAC modes
- Host Link-11A/B – including option for dual NTDS hosting of Link-11A networks
- Built-in data loop protection, analysis tools and automatic data recording (DERG, MIL-STD-3011 packet inspector)
- Powerful local and remote filtering (CAT/ID, track- centric, geographic, data age and more)
- Nationwide Automated Information System (NAIS)
- Translates NAIS data – generates/transmits track reports
- Free text and weather over target report message exchange
- Imagery exchange (NITF, JPEG, BMP, TIFF and Eagle Eye);
- Digital Command and Control (C2) engagements and mission assignments
- Selectable map features – raster maps (CADRG/CIB) – 2D-map – 3D map – moving/flight follow
- Import ATO and ACOs

Key benefits

- **Easy to use:** Intuitive software design
- **Established:** Data link backbone for multiple AORs
- **Proven:** Multiple programs of record
- **Affordable:** More cost-effective and efficient than the competition
- **Multi-platform:** Air and ground platforms use JRE
- **Agnostic:** Both hardware and operating system
- **Easily sustained:** 24/7 worldwide support

Joint Range Extension's (JRE) combat proven data link capability commands an unmatched record of performance, reliability, economy and agility. As the software solution for delivering Tactical Data Link (TDL) operations over Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) communications, JRE is the premier TDL system of choice by the United States Department of Defense and select coalition partners, with over 1,500 systems fielded worldwide.

With multiple programs of record, JRE is the only TDL system able to claim that it has the lowest data loss and latency of any fielded data link gateway. Equally, JRE provides superior TDL processor performance as the only gateway featuring smart forwarding and data loop protection as well as the ability to process more than 20,000 tracks.

JRE is coded in Java and extensible – meaning it is “Stable, Robust and Adaptable” operating system agnostic. Its Graphical User Interface (GUI) is designed based on ease of use for fast and efficient operator actions and accessibility to mission critical information. JRE is a Technology Readiness Level (TRL)-9 tested, approved, certified and Information Assurance (IA) accredited and compliant TDL Gateway.



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