

JRE Gateway

Link-16 Interfaces

MIDS
All LVT Variants



Platform-D
Platform-J
X.25
1553

JTIDS
E-2,E-8 & F-15,
Class 2H & 2M

JRE Gateway
Ruggedized Client-Server
Architecture



MIL-STD 3011
Appendix A
or STJ

UHF/SHF
SATCOM

MIL-STD 3011
Appendix C

Local Router
TCP, UDP

CDL
Family

TTNT
QNT

HOST SYSTEMS
ADSI / MSCT / CCD
MSCS
TACP-CASS
FAAD/AMDWS
GCCS/C2PC

Interfaces

MIL-STD 3011
Appendix B

STE
OMNI

MIL-STD 1553
or IP

SADL

IMARSAT B

The Joint Range Extension (JRE) is the warfighter's premier gateway of choice, providing multipoint, interoperable, long-haul communications data exchange. JRE hosts JTIDS/MIDS terminals, SADL 11xy radios and provides BLOS connectivity enabling integrated operations at the strategic, operational and tactical levels of warfare. JRE bridges Link-16 architectures with the Global Information Grid, facilitating the robust Net Centric Warfare information exchange between participating service C2 platforms and disadvantaged user's.

Joint Warfighter Stakeholders:

- Air & Space Operations Center (AOC)
- Maritime Operations Center (MOC)
- JTEP: JRE/TMPG Equipment Package for MCE
- B-1 & Rivet Joint
- GMG & ASOC Gateway
- Battlefield Command, Control & Communications (BC3)
- NORAD Homeland Defense
- JADOC – Joint Air Defense Operations Center
- MDA's C2BMC
- A-MANPADS-Advanced Man Portable Air Defense Sys
- CAC2S – Common Aviation Command and Control Sys
- Theatre High Altitude Area Defense Missile System

JRE is a Joint program involving:



For JRE Program information contact:



Michael Lawson

JRE Program Manager

L-3 Communications – Engineering Services
San Diego, California 92121
Commercial (858) 552-9488

Email: michael.lawson@l-3com.com

Approved for public release; distribution is unlimited;
ESD-040005 66ABW-2009-0179

Joint Range Extension



JRE-GW (AN/TYQ-123) Version 5.2



Beyond Line of Sight Link-16 Gateway

Joint Range Extension Gateway localhost

JRE V5.2 Imagery Capability

File Setup Control Status Map Tools About

Links Filters Tracks Messages eDERG Terminal SADR Radio Missions MM ACK/NAK ATO

Host: localhost

Find Track:

J2.2 Air PPLI

TOI Declutter On

Voice Call Sign, ATO: No Data

Mission Number, ATO: No Data

Control Channel: No Data

Type Of Aircraft, A...: No Data

Air Platform And System Status

Air-To-Ground Weapon...: System Operational

Aircraft Model: No Statement

Fuel: 3000 lbs

Gun Capable: Gun Capable

Link 16 Control Sta...: Under Control

Link 16 Status: Available via Local Buffer

Number Of Stores, 1: 2 units

Number Of Stores, 2: 2 units

Number Of Stores, 3: 4 units

Number Of Stores, 4: 1 units

Number Of Stores, 5: No Data

Number Of Stores, 6: No Data

Number Of Stores, 7: No Data

Number Of Stores, 8: No Data

Bull: 88.6° 1,551.91NM Position: 30:08.9960N,89:10.9561W (541,352) Zoom: 32:06.3966N,88:29.8082W 1,937.38NM

Alias	Designator	Link Type	Mode	Rx State	Rx Msgs	Tx Msgs	Filters	Tracks
Bobby	77	JREAP-C (v.1) TCP/IP...	Link Off		0	0		0
CONR	1	JREAP-C (v.1) TCP/IP...	Link Off		0	0	Tx	0
EADS	8	JREAP-C (v.1) TCP/IP...	Link Off		0	0	Tx, Rx	0
James	1369	JREAP-C (v.1) TCP/IP...	Link Off		0	0	Tx	0
Lucky	55	JREAP-C (v.1) TCP/IP...	Link Off		0	0		0
Playback-1	3	JRE Playback	Link On	Rx Operational	16135	0	Tx	43
SADR_GW	5	SADR Gateway TCP/IP...	Link Off		0	0	Tx, Rx	0
Sat_JREAP-A	10	JREAP-A	Link Off		0	0		0

Alert Messages Links Tracks Engagements Threats NEW Msgs

Connected to localhost

Imagery

Mission Assignments (Receiver)

Mission Assignments Received

File Edit Mission About

Host: localhost

Time	Assignment	Objective	Pr. Spd. Info.	Response	Status	BOA
15:19:12	Attack Target Complex	0001	No	WISLO	Attacking	Target Parahel D...
15:05:43	Attack	0007	No	CANCO		
15:05:36	Attack	0014	No	WISLO	Attacking	Track/Target Des...
18:53:32	Close Air Support	0001	No	WISLO	Attacking	BOA Unknown
17:25:46	Attack	0011	No	WISLO	Attacking	Target Parahel D...
21:45:50	Attack	0077	No	WISLO	Attacking	Track/Target Des...
21:14:49	Attack Target Complex	0001	No	WISLO	Engaging	Track/Target Des...
20:19:26	Attack	0002	No	WISLO	Attacking	Track/Target Des...
19:56:21	Attack	0006	No	WISLO	Attacking	Track/Target Des...
17:52:20	Attack Target Complex	0011	No	WISLO	Investigating	BOA Unknown
20:45:41	Attack	0010	No	WISLO	Attacking	Track/Target Des...
21:21:37	Attack Target Complex	0002	No	WISLO	Attacking	Target Parahel D...
21:12:37	Attack	0210	No	WISLO	Attacking	Track/Target Des...

Summary: 1 word | C1 word | C2 word | C3 word | C4 word | C5 word

Express Heading: 0°

Number Of Stores: 0 units

Type Of Stores: No Statement

Time Decays: No Statement

Hour: No Statement

Minute: No Statement

Objective: 32.8 Messages (Assignment & Message)

BOA to Send: Track/Target Destroyed

Response: Status Imagery

Connected to localhost

JRE J16.0 Imagery Added to TST/DT Kill Chain

