Multi-platform, multi-client data links for optimal situational awareness in tactical operations.

From radars and sensors to networks and software applications, the proliferation of technological platforms poses great challenges for effective real-time information exchange. Rockwell Collins' Rosetta Technology® data integration tool allows you to maximize your situational awareness by harnessing the full potential of a tactical operation’s data flow.

Rosetta Technology provides a modular, open architecture series of interfaces between sensor and data link hardware and host clients. A Microsoft Windows®-based application incorporating an array of network enterprise services in real-time or near real-time, Rosetta Technology allows many-to-many client connections across multiple communications protocols and mediums. Designed as Net-Centric Enterprise Service (NCES), Rockwell Collins' Rosetta Technology supports a broad array of service requirements, including:

- Data acquisition from a variety of sources
- Real time in-RAM data store
- Message encoding and decoding
- Data normalization
- Data recording, playback and forwarding
- Distribution of data in XML and other industry standard formats
- Unit tracking
- Geographic reference frame conversion

Rosetta Technology’s data management is augmented by a powerful yet flexible language to manage client interactions. External text-based configuration files — easily edited with Notepad or other text editors — allow simple adaptation to changing standards and additional networks and technology without code modifications or recompiles. The straightforward query language, immediately familiar to developers who have used industry standard data bases, allows users to focus on tactical uses and operational benefits rather than trying to manipulate messages to work with the target platform.
ROSETTA TECHNOLOGY PROVIDES DATA LINK INTEGRATION CAPABILITIES FOR THE FOLLOWING MESSAGE FORMATS AND INTERFACES:

**Low level interfaces**
- MIL-STD-1553
- ARINC-429, 561, etc.
- RS-422
- Ethernet (TCP/IP and UDP/IP) server and client interfaces
- Sync serial
- ASync serial
- AEGIS/CVN NTDS parallel and serial
- ICI PCMCIA improved modem card
- ICI USB modem
- Aeronix/Symetrics UROC modem

**Protocols supported**
- ARINC-429
- MIL-STD 188-184
- MIL-STD 3011A (STADILJ)
- MIL-STD 3011C
- Slowlink (Rosetta broadcast)

**Forwarding**
- MIL-STD-6020
- USAF TACP Gateway forwarding rules
- Finland country-wide infrastructure rules
- Swedish air to ground rules

**Equipment interfaces**
- PRC-150
- PRC-117F/G
- PRC-152
- PRC-148
- JTRS enhanced MBITR
- MIDS LVT 1 Platform A, B and N
- MIDS LVT 2 Platform J
- Class 2 JTIDS
- Class 2M JTIDS (E2C)
- FDL
- URC-138 (SHAR)
- SADL RT-1720

**Mapping applications**
- MAP-X®
- FalconView®
- Maria
- Google Earth™ Mapping Service

**Certifications**
- Link 11 to Link 16
- Link 16 C2

**Supported sensors/links**
- CEC
- TIBS
- MIL-STD 6016 B
- MIL-STD 6016 C
- Link 11
- VMF Reissue 2
- VMF Version 3
- VMF Version 5
- VMF Version 6 and 6+
- MIL-STD 6017
- MIL-STD 6017A
- STANAG 5522 (Link 22)
- IDM-MAFAD
- GBDL
- OTH-GOLD
- USMTF
- OMNITRAKS, SABRE
- AEGIS interface; N SERIES
- SLQ-32 EW system
- Situational Awareness Data Link (SADL)

**Command and Control systems**
- TACP Gateway
- TBMCS
- ADOCS/JADOCS
- AFATDS — (includes Excalibur)
- FBCB2

**Aircraft interoperable with**
- A-10C SADL and VMF
- F-16 IDM
- F-16 Link 16
- F-15E Link 16
- AWACS/JSTARS Link 16
- Mirage F1 IDM
- Mirage 2000 IDM
- Tornado IDM
- B-52 VMF
- MIL-STD 6017A
- STANAG 5522 (Link 22)
- IDM-MAFAD
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- Mirage 2000 IDM
- Tornado IDM
- B-52 VMF
- AC-130U Link 16
- AV-8 MTS
- F/A-18 C, D, E, F VMF
- F/A-18 SuperHornet Link 16
- Gripen Link 16
- EuroFighter Link 16
- CF-18 Canada VMF
- Jaguar IDM
- Gripen

**Specifications subject to change without notice.**

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.

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