Rosetta Joint Fires for the TACP CAS system

Courtesy of the U.S. Air Force.

Providing a fielded, combat proven situational awareness and integrated precision targeting software suite for ground targeting, air support and call for fire missions.

In today's military environment, coordination between ground forces and fixed or rotary wing aircraft in close air support (CAS) is essential for mission success. Our Rosetta Joint Fires (RJF) software suite simplifies the complex business of sensor and data link management on the battlefield and provides the critical element of situational awareness for successful tactical operations.

Currently fielded in the U.S. Air Force Tactical Air Control Party (TACP) community for its CAS system, the RJF for the TACP CAS system leverages Rockwell Collins' operationally proven Rosetta Technology™ software suite.

The USAF TACP spiral development of the program allows the USAF and Coalition users to integrate legacy platforms and introduce new systems with minimal impact to the program. The TACP CAS system provides machine-to-machine digital communications (position reports, text and targeting messages) distributed to all TACP members across the battlespace. The TACP CAS system is digitally tied to Battle Management systems such as FBCB2, AFATDS and ADOCS, and actively interacts with the Air Support Operations Center (ASOC) and the Combined Air Operations Center (CAOC). This digital integration of the TACP CAS system offers the edge user the same level of situational awareness available in the CAOC, such as Link 16, Army Tactical Internet and Joint Blue Force Situational Awareness (JBFSA) back to the dismounted warfighter.

KEY BENEFITS

- Tactical gateway
- Supports joint fires community
- Digital connectivity with aircraft (9-line)
- Situational awareness
- Coalition/interoperability driven

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Operating system

› DRS MRT: Windows® Tablet

› Windows® XP

Graphical user interface

› Joint Moving Map Tactical Information Display System (JMMTIDS)

› FalconView™

› Google™ Earth

Laser range finders

› Leica Viper/Vector

› Thales GMLR

› Litton Mark VII

› Optronics® LH 40

Expandability

› Link 16 Joint Range Extension

› Link 16/Variable Message Format (VMF) data forwarding

› Extensible Mark Up Language (XML) Gateway

› Situational Awareness Data Link (SADL) Gateway

› Rosetta Open Architecture Mobile (ROAM)

› Multiple digital battle manager interfaces

Battle manager interfaces

› Theater Battle Management Core System (TBMCS)

› Joint Automated Deep Operations Coordination System (JADOCS)

› Automated Deep Operations Coordination System (ADOCS)

› Advanced Field Artillery Tactical Data System (AFATDS)

9-line and NATO 15-line brief supported platforms

› F-15E (Link 16 via gateway)

› F-16 BLK 40/50 (AFAPD)

› F-16 BLK 30 (SADL via gateway)

› F/A-18 (VMF)

› AV-8B (MTS)

› A-10 (SADL/VMF)

› Apache AH-64* (VMF)

› UK Tornado (AFAPD)

› Mirage 2000D (AFAPD)

› B-52 (AFAPD)

Imagery

› F/A-18 (VMF)

› F-15 (Link 16)

Video downlink

› ROVER III & IV compatible

In service

› USAF Tactical Air Control Party Close Air Support (TACP CAS) system

› UK Forward Observation Officers (FOO)

› UK Forward Air Controllers (FAC)

Radio control

› PRC-150*

› PRC-117F

› PRC-148

› PRC-152*

› JEMS

* Program requirement in development/test

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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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