LOCKHEED MARTIN

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Airborne and Maritime/Fixed Station
Joint Tactical Radio System (AMF JTRS)

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Lockheed Martin Business Development
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The U.S. Department of Defense has defined requirements for next-generation military communications that will enhance operational effectiveness and provide significant new capabilities to warfighters through an information infrastructure that will enable a dynamic ad hoc network across the battlespace. The DoD's Joint Tactical Radio System (JTRS) is a revolutionary advancementin the transformation initiative to establish joint communications across the services.

JTRS is creating a family of software-defined radio systems that will redefine warfighting communications, support mobile networking and enable interoperability among joint forces. These systems will provide new levels of real-time communications capability and integrate the battle-space for more effective command and control.

Lockheed Martin Team for AMF JTRS

Lockheed Martin leads a team of highly skilled industry experts with vast platform/platform integration experience and extensive background in designing and developing Software-Defined Radio technology critical to the success of the JTRS program. Our team has considerable expertise in networking and the core technologies for defining mobile ad hoc network capability and can design and develop a Joint Tactical Radio System that will enable the DoD's vision of joint interoperable radio communications across the services.

The JPEO JTRS/Lockheed Martin Team brings synergies in architecture design from other major DoD programs and industry-leading command and control expertise. We have more than 50 years of proven experience integrating mission capability and new technology performance onto all types of military platforms, including aircraft and Navy vessels. We understand the complexities and interrelationships of size, weight and power for radios, and other form factors, and their impact on the performance of these platforms.

AMF JTRS – Enabling Network-Centric Warfare

AMF JTRS will enable space, airborne and maritime assets to share information and enhance real-time mission decision-making. AMF JTRS is a force multiplier for existing communication systems utilizing cross banding technologies. It expands the operational envelope and functionality of the joint forces through enhanced networking.

AMF JTRS brings secure broadband internet type capability to the last tactical mile; literally putting the power of the internet in each soldier's hand. Providing real-time transmission of voice, data and video anywhere in the mobile battlefield. AMF JTRS provides increased bandwidth capability and enhances operational effects – enabling faster response to targets and more accurate targeting, situational awareness and survivability. While being Joint interoperable and compatible with legacy equipment – no one is left out of the loop.

AMF JTRS enables Information Dominance and shortens the command decision loop for executing priority missions. AMF JTRS ensures the speed of information exceeds the speed of engagement. When troops are in contact, AMF JTRS provides the only sustainable, robust air to ground urgent communications in contested environments.

Basically, AMF JTRS is much more than a radio. It provides the Warfighter with a communications capability that takes the current radio capabilities to the next generation of tactical networked communications through advanced Internet Protocol (IP) technologies, similar, but much more mobile and secure than commercial communications devices on the market today. The Warfighter will have unprecedented access, anywhere on earth, to information needed for situational awareness, decision making, and a level of interoperability never achieved before. Legacy communications devices, when linked with an AMF JTRS capability, will have the ability to bridge into advanced military communications networks like the "Global Information Grid" (GIG).