



## News Release

Joint Program Executive Office, Joint Tactical Radio System

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### JPEO JTRS Releases MOCB Application Program Interface

SAN DIEGO - The Joint Program Executive Office for the Joint Tactical Radio System (JPEO JTRS) approved the JTRS Modem Hardware Abstraction Layer on Chip Bus (MOCB) Application Program Interfaces (API) for public release. The API is available for download from the JPEO JTRS Software Communications Architecture (SCA) website at <http://sca.jpeojtrs.mil/api.asp>.

The MOCB API provides parallel interfaces between the radio's channel modem interfaces from the application software. The MOCB API supports communications between application components hosted on General Purpose Processors, Modem Digital Signal Processors and/or Modem Field Programmable Gate Arrays. The concept of the MOCB API is to provide a consistent host environment for waveform applications and waveforms across SCA-compliant platforms.

APIs are a companion to the SCA and define relationships and communication between radio waveform applications and the software defined radio set. Standardization of APIs within the JTRS program enhances portability and reusability of waveform and operating environment software. The JPEO has released a set of APIs to provide similar benefits to the commercial radio industry.

The SCA plays a vital role within JPEO JTRS by standardizing the deployment, management, interconnection and intercommunication of software application components in embedded, distributed-computing communication systems. While the SCA is published and maintained by JPEO JTRS, it has been received wide support and use from the commercial radio developers and industry organizations.

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#### About JPEO JTRS

The Joint Tactical Radio System, headquartered in San Diego, Calif., was initiated in early 1997 to improve and consolidate the Services' pursuit of separate solutions to replace existing legacy radios in the Department of Defense inventory. The JTRS program has evolved from separate radio replacement programs to an integrated effort to network multiple weapon system platforms and forward combat units where it matters most - the last tactical mile. JTRS will link the power of the Global Information Grid to the warfighter in applying fire effects and achieving overall battlefield superiority.

JTRS is developing an open architecture of cutting edge radio waveform technology that allows multiple radio types (e.g., handheld, aircraft, maritime) to communicate with each other. The goal is to produce a family of interoperable, modular software-defined radios which operate as

nodes in a network to ensure secure wireless communication and networking services for mobile and fixed forces. These goals extend to U.S. allies, coalition partners and disaster response personnel. For more information, please visit <http://jpeojtrs.mil/>.