



Intent to Announce Request for Prototype Proposals (RPP) or Request for Prototype White Papers (RPW) under the National Spectrum Consortium (NSC) OTA

Solicitation Number: W15QKN-19-Z-04B1
 Agency: Department of the Army
 Office: Army Contracting Command
 Location: ACC - NJ (W15QKN)

Notice Details

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Special Notice
 Oct 24, 2018
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Changed

Apr 19, 2019
 8:37 am

Solicitation Number:

W15QKN-19-Z-04B1

Notice Type:

Modification/Amendment

Synopsis:

Added: Apr 19, 2019 8:37 am

Projects anticipated to be solicited under the NSC OTA in FY'19 are as follows:

SARDP 12, Spectrum Aggregation Technologies:

The objective of this effort is to develop and demonstrate a prototype Aeronautical Mobile Telemetry (AMT) transceiver capable of sensing the local RF spectrum environment and aggregating non-contiguous blocks of spectrum in the 6425-6525 MHz based on user defined and ad-hoc policies and real time telemetry channel conditions. The 6425-6525 MHz portion of spectrum is shared amongst numerous many Federal and non-Federal systems, including AMT, and is highly fragmented. Access to the 6425-6525 MHz portion of spectrum is especially challenging in terms of sharing and coordination due primarily to the presence of a large number of mobile systems collectively referred to as Electronic News Gathering (ENG).

SARDP 26, Reconfigurable Small Unmanned Communications:

The objective of this effort is to develop and integrate performance enhancements for small unmanned communications systems. The initial target system for integration of the technology developed under this effort will be Small Unmanned Aircraft (Group 1). Many of the technologies developed under this effort shall be portable to other unmanned systems including Unmanned Ground Vehicles and Group 2 and larger UAS. These portable enhancements shall include dynamic spectrum access (DSA), Electronic Counter-Countermeasures (ECCM), and encryption. Work to be performed will include architecture development, specification development, and prototype development. The prototype is directly relevant to military mission effectiveness as the warfighter must be able to employ, via secure and resilient communications, small unmanned systems in congested and contested spectrum environments.

SARDP 29, Spectrum Access Manager::

The objective of this effort is to develop and demonstrate a prototype spectrum management and planning tool which provides critical data relating to link availability for a given flight path to support efficient RF spectrum planning by re-binning the spectrum allocations at an identified test range. This spectrum access management and planning tool would enable automated sharing techniques enabling test ranges to efficiently support required operations, provide precise visualization of spectrum assignments and telemetry link performance, mitigate inter-range conflicts, improve frequency reuse through space-time separation, and provide space-time coverage maps of test activities.

GENERAL INFORMATION

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A -- Research & Development

NAICS Code:

541 -- Professional, Scientific, and Technical Services/54171 -- Research and Development in the Physical, Engineering, and Life SciencesT

SARDP 30, Operational Spectrum Comprehension, Analytics, and Response (OSCAR):

The objective of this effort is to develop and demonstrate a spectrum automation solution that supports spectrum access for large force exercises and other spectrum-intensive scenarios. OSCAR will leverage an open-source object model ecosystem, analytics engines, and spectrum sensing feedback in order to dynamically tune spectrum dependent assets in near real time and with a much larger and omniscient view of the operating environment. The system will also include a mission planning module to establish initial spectrum allocations and then rely on the analytics engines to react to sensed or predicted spectrum congestion or contention and ensure DoD spectrum-dependent systems can continue to operate.

SARDP 31, Multiband Control Channel for ACTS (MICCA):

The objective of this effort is to develop a standardized control channel architecture that provides radio frequency (RF) operating parameters and priorities to dynamic spectrum access (DSA) enabled systems. MICCA is intended to be used for the air combat training system (ACTS), but can be used generally to provide spectrum allocation information to any enabled spectrum dependent system.

SARDP 32, Risk-Informed Spectrum Access:

The objective of this effort is to develop risk-informed spectrum access technologies to enhance spectrum sharing behaviors based on situational uncertainty and risk thresholds. Technologies to be developed under this project include formal risk assessment methods and models, which will result in standardized and efficient algorithms for quantifying situational uncertainty for spectrum users and planners, to enable increased user density and/or spectrum-dependent system capability in a given bandwidth and geographic extent. Approaches are encouraged to include one or more of the following: real-time spectrum allocation, dynamic exclusion or protection zone determination, uncertainty propagation analysis, statistical methods, and incorporation of real-time platform truth data and/or a priori information.

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