

FOR IMMEDIATE RELEASE
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**SHARED SPECTRUM COMPANY SUCCESSFULLY DEMONSTRATES
neXt Generation (XG) WIRELESS COMMUNICATIONS SYSTEM**

Vienna and Fort A.P Hill, VA – Shared Spectrum Company (SSC) conducted a successful demonstration of innovative technologies that enable dynamic access to the radio frequency spectrum. SSC's technology uses advanced communications protocols and sensing capabilities to improve access to available spectrum resources without causing harmful interference to existing systems and users.

The live demonstration, held at Fort A.P. Hill, Virginia, was carried out as part of Phase III of the neXt Generation Communications (XG) program funded by the Defense Advanced Research Projects Agency (DARPA) and managed by the Air Force Research Laboratory (AFRL). The XG Program is developing technology and system concepts for DOD line-of-sight radios to dynamically access spectrum in order to establish and maintain communications. The goal is to demonstrate the ability to access 10 times more spectrum with near-zero setup time; simplify RF spectrum planning, management and coordination; and automatically de-conflict operational spectrum usage.

The demonstration used six mobile 802.16-based XG radios that operated in the same spectrum as a suite of fixed, instrumented military and commercial legacy radios. A wide-area instrumentation system was used to record the XG radio connectivity and the performance of the legacy radios. The field exercises demonstrated the operational utility of XG: that XG causes no harm to existing military radios in compliance with emission/regulatory rules; XG will allow additional radio networks or communication capacity than currently possible using existing procedures; and that XG can operate in the presence of electromagnetic interference (*i.e.*, jamming). Overall program capabilities and potential immediate benefit for DOD operations were shown.

This demonstration was the first in a series of the fully integrated XG system tests exercising all elements of the XG system, which includes ultra-sensitive detectors, distributed sensing, complex interference avoidance algorithms, and policy-based software control.

About Shared Spectrum Company: A small business headquartered in the Tysons Corner area of Northern Virginia, Shared Spectrum Company develops advanced technologies for Government and industry customers with challenging radio frequency and networking needs. It specializes in dynamic spectrum management applications and high performance, low cost transceivers that operate from 30 MHz to 3 GHz.

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