

MUOS Gives Navy First Reliable Military Satellite Connection In The Arctic

ICEX Exercise Demonstrates High-Bandwidth Polar SATCOM

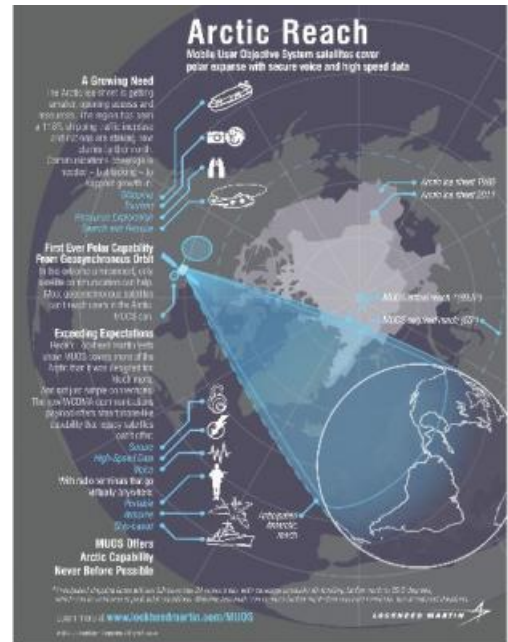
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SUNNYVALE, Calif., May 5, 2014 /PRNewswire/ -- Analysis of [Mobile User Objective System \(MUOS\)](#) satellites during the U.S. Navy's 2014 Ice Exercise (ICEX) shows they provided nearly 150 hours of secure data connections. This was the first time military users could transfer large megabyte data files over stable satellite connections in the arctic.

Working atop a floating ice camp above the Arctic Circle, a team from Lockheed Martin [NYSE: LMT] provided secure satellite communications and delivered further evidence that MUOS is a reliable asset in the far north.

[Click on the image to the right for a high-res infographic explaining MUOS Arctic reach at www.lockheedmartin.com/muos]

"Last year we proved the constellation's reach, but this is the first time MUOS has been used for secure government exercises," said Paul Searce, director of Military Space Advanced Programs at Lockheed Martin. "This means users could traverse the globe using one radio, without needing to switch out because of different coverage areas. This goes far in increasing the value that MUOS provides mobile users, not just in traditional theaters of operation, but those at the furthest extents of the planet."



Lockheed Martin [first demonstrated](#) the MUOS constellation's ability to reach arctic users in tests during 2013. Those tests marked a significant gain in signal reach from the required latitude of 65 degrees north—roughly Fairbanks, Alaska. This expansion in coverage, inherent with the system, comes at a time when governments are focusing on arctic security.

"We downloaded multiple files—up to 20 megabytes—nearly at the top of the world," said DrAmy Sun, Narrowband Advanced Programs lead at Lockheed Martin. "We sent a steady stream of photos, maps and other large data pieces securely through the system, something that could never be done by legacy communication satellites."

From March 17 to 27, MUOS provided over 8,800 minutes of service to Ice Camp Nautilus. U.S. Navy users at the camp could connect to both secure and classified communication systems and send data files. U.S. and Canadian officials monitored the activities as part of ICEX, an annual Arctic submarine exercise.

[Lockheed Martin Space Systems](#), Sunnyvale, Calif., is the MUOS prime contractor and system integrator. The [Navy's Program Executive Office for Space Systems](#) and its Communications Satellite Program Office, San Diego, Calif., are responsible for the MUOS program.

Headquartered in Bethesda, Md., Lockheed Martin is a global security and aerospace company that employs approximately 113,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The Corporation's net sales for 2013 were \$45.4 billion.

Note to Editors:

MUOS video and high-resolution photos can be found at www.lockheedmartin.com/muos

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