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XTAR and Leidos Partner to Demonstrate Outstanding Airborne Efficiencies

40 Mbps achieved using small antenna

ASHBURN, Virginia (October 26, 2017) – XTAR, LLC is proud to announce excellent results from a demonstration hosted by Leidos Systems Engineering and Integration. One purpose of the demonstration was to test the power and efficiencies of XTAR's X-band frequency using a small airborne antenna.

The demonstration utilized a 0.4m Wavestorm airborne antenna transmitting to a 3.9m ground terminal. First, results showed that 10 Mbps were achieved off of the small antenna using only 6.9 MHz of XTAR's X-band. As a guideline, a 1:1 ratio (or in this instance, 10 MHz) would have been considered efficient. As a comparison, at Ku-band, where spread spectrum techniques would have had to be used to close the link, a Ku-band carrier would potentially have occupied around 48 MHz for a 10 Mbps service.

Second, XTAR was able to achieve 40 Mbps transmitted from the small airborne antenna utilizing only 66 MHz of bandwidth. This test reinforced an intent of the demonstration, showing achievement of a high data rate while remaining extremely efficient.

"We are very pleased with the results from our demonstration," explains Kelly Nicklin, Senior Director of Sales and Business Development for XTAR. "The testing confirms X-band's efficiencies with small antennas. But to take that a step further, better efficiencies translate into not only lower costs but higher power for our military and government customers."

"As antennas become smaller and smaller, power and efficiencies are key," stated Richard R. Anderson II from Leidos Systems Engineering and Integration. "XTAR's performance showed it to excel in both areas, demonstrating strong mission support in the field."

ABOUT XTAR

Founded in 2001, XTAR, LLC is the first commercial satellite operator to provide services in the X-band frequency. XTAR is a privately owned company backed by majority shareholder Loral Space & Communications of New York. XTAR also enjoys investment and support from minority shareholder Hisdesat Strategic Services SA. XTAR launched its fleet without government funding, employing its own technical and financial resources for a system that is reserved exclusively for the benefit of the government user. Countries around the world trust XTAR to support critical services such as border security and information gathering.