

## **Ball Aerospace and XTAR Demonstrate High-Throughput ISR Service for Air Force on First X-band Hatch-Mounted Flat Panel Antenna**

### **Ball Aerospace and XTAR support USAF TENCAP SATCOM Demonstration**

BOULDER, Colo. and HERNDON, Va., July 26, 2016 /PRNewswire/ -- Ball Aerospace collaborated with XTAR LLC to successfully demonstrate high-throughput service using Ball's industry-leading AIRLINK® X-1 antenna configured for the C130 hatch. The demonstration took place at Aberdeen Proving Ground.

In association with its customer, the U.S. Air Force Tactical Exploitation of National Capabilities (TENCAP), Support to Special Operations Forces, Ball has developed unique phased array "sub-array" building blocks which allow for the X-band aperture to be configured to meet the size, weight, power and throughput requirements for most desired airborne, maritime and ground platforms. This high-speed service operates over a lighter and lower profile antenna that can easily be taken on and off each aircraft without adjustments to the airframe.

In the C130 hatch configuration, the Ball terminal transmitted 4.5 megabits per second of data over the XTAR-LANT satellite located at the 30°W location, a significant increase in throughput compared to many existing terminals. Based on the successful SATCOM demonstration and in-depth antenna technical exchanges, Ball's AIRLINK X-1 now is certified to access XTAR satellites.



"Ball's Airlink X-1 represents a significant improvement in phased array technology that will provide the warfighter with vastly enhanced communications," said Rob Freedman, vice president and general manager, Tactical Solutions, Ball Aerospace. "We are pleased to partner with XTAR to bring this critical capability to the men and women who defend our nation."

AIRLINK® X-1 is a complete X-band SATCOM on the move (OTM) terminal which supports operation with Wideband Global SATCOM (WGS) and commercial X-band satellites, providing operational flexibility.

This demonstration continues XTAR's support for the U.S. military's airborne missions and its efforts to deploy commercial satellite capabilities for Intelligence Surveillance and Reconnaissance (ISR) requirements.

"XTAR and Ball recognize the importance of being flexible, creative service providers to help AF TENCAP achieve its goals," said Philip Harlow, Chief Operating Officer of XTAR. "XTAR supports X-band terminal manufacturers to harness their technology and create innovative, flexible X-band services for government mobility applications, for the U.S. government as well as others in the global community of X-band stakeholders."

XTAR continues to grow based on its unique support of government mobile communications missions, by understanding their parameters and developing resilient, secure, high-speed network solutions to fulfill missions, even in the most remote regions. XTAR helps government users understand and evaluate commercial products and services working together to derive solutions that are the right fit for special requirements.

Ball Aerospace pioneers discoveries that enable our customers to perform beyond expectation and protect what matters most. We create innovative space solutions, enable more accurate weather forecasts, drive insightful observations of our planet, deliver actionable data and intelligence, and ensure those who defend our freedom go forward bravely and return home safely. For more information, visit [www.ball.com/aerospace](http://www.ball.com/aerospace) or connect with us on [Facebook](#) or [Twitter](#).

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#### Forward-Looking Statements

This release contains "forward-looking" statements concerning future events and financial performance. Words such as "expects," "anticipates," "estimates" and similar expressions identify forward-looking statements. Such statements are subject to risks and uncertainties, which could cause actual results to differ materially from those expressed or implied. The company undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Key risks and uncertainties are summarized in filings with the Securities and Exchange Commission, including Exhibit 99 in

our Form 10-K, which are available on our website and at [www.sec.gov](http://www.sec.gov). Factors that might affect: a) our packaging segments include product demand fluctuations; availability/cost of raw materials; competitive packaging, pricing and substitution; changes in climate and weather; crop yields; competitive activity; failure to achieve productivity improvements or cost reductions; mandatory deposit or other restrictive packaging laws; customer and supplier consolidation, power and supply chain influence; changes in major customer or supplier contracts or loss of a major customer or supplier; political instability and sanctions; and changes in foreign exchange or tax rates; b) our aerospace segment include funding, authorization, availability and returns of government and commercial contracts; and delays, extensions and technical uncertainties affecting segment contracts; c) the company as a whole include those listed plus: changes in senior management; regulatory action or issues including tax, environmental, health and workplace safety, including U.S. FDA and other actions or public concerns affecting products filled in our containers, or chemicals or substances used in raw materials or in the manufacturing process; technological developments and innovations; litigation; strikes; labor cost changes; rates of return on assets of the company's defined benefit retirement plans; pension changes; uncertainties surrounding the U.S. government budget, sequestration and debt limit; reduced cash flow; ability to achieve cost-out initiatives; interest rates affecting our debt; and successful or unsuccessful acquisitions and divestitures, including with respect to the Rexam PLC acquisition; the effect of the acquisition on our business relationships, operating results and business generally; the outcome of any legal proceedings that may be instituted against us related to the acquisition of Rexam PLC.

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For further information: Jackie Berger, 703-284-5412, [jberger@ball.com](mailto:jberger@ball.com) OR Lisa Koppel, Sage Communications, 703-584-5641, [lkoppel@aboutsage.com](mailto:lkoppel@aboutsage.com)

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