

Ball Aerospace-Microsoft Team Completes Demonstrations of Cloud-Based Data Processing, Exploitation and Dissemination

BOULDER, Colo., May 19, 2021 /PRNewswire/ -- Ball Aerospace, in collaboration with Microsoft, successfully completed a series of demonstrations showing the viability of using commercial cloud computing to process and securely deliver actionable information quickly to those who need it, whether they are in a ground station, command center or on the battlefield.

Enabled by the Defense Innovation Unit's (DIU) fast-paced commercial solutions process, the demonstrations support the United States Space Force Space and Missile Systems Center's (SMC) Commercially Augmented Space Inter-Networked Operations (CASINO) Program Office, which serves as the SMC focal point for proliferated Low Earth Orbit (LEO) technology and prototyping.

"Our tests showed that the cloud is, in fact, a viable solution for data processing, exploitation and dissemination of data that is not only fast, but also flexible, secure, scalable and resilient," said Steve Smith, vice president and general manager, Systems Engineering Solutions, Ball Aerospace. "For years, the military has envisioned an agile and connected force structure. During the demonstration, the CASINO team proved that we are ready to field low-latency links today, which moves this vision much closer to reality."



For the demonstrations, simulated data from Overhead Persistent Infrared (OPIR) was pushed to Microsoft's AZURE cloud where it was processed using Ball-developed event-driven architecture, and then disseminated to multiple end points. In the final demonstration, Telesat joined the Ball-Microsoft team to successfully complete a direct downlink of data from its network of LEO satellites to a Ball-built electronically steerable Ka-Band phased array affixed to a tactical vehicle in order to prove that actionable information could be delivered to the warfighter in the field.

"Direct satellite-to-cloud communication and accelerated ground data processing allows the Department of Defense to gain advanced analytics capabilities enabling predictive modelling and new actionable insights capable of reshaping the future as they advance their mission," said Tom Keane, corporate vice president, Azure Global, Microsoft. "By combining satellite data with other sources directly in Azure, the Microsoft-Ball Aerospace team has demonstrated an innovative approach for ground processing which also opens the possibilities for a huge range of commercial applications."

Ball Aerospace has more than 30 years of data processing experience, including developing unique and accurate exploitation algorithms for satellite systems. Ball also has five decades of experience delivering electronically-steered phased array, antenna solutions for commercial, military and government customers and two decades experience delivering flat panel antennas and terminals.

Powered by endlessly curious people with an unwavering mission focus, **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. Go Beyond with Ball.® For more information, visit www.ball.com/aerospace or connect with us on [Facebook](#) or [Twitter](#).

About Ball Corporation

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This release contains "forward-looking" statements concerning future events and financial performance. Words such as "expects," "anticipates," "estimates," "believes," "targets," "likely," "positions" and similar expressions typically identify forward-looking statements, which are generally any statements other than statements of historical fact. Such statements are based on current expectations or views of the future and are subject to risks and uncertainties, which could cause actual results or events to differ materially from those expressed or implied. You should therefore not place undue reliance upon any forward-looking statements and any such statements should be read in conjunction with, and, qualified in their entirety by, the cautionary statements

referenced below. 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 factors, risks and uncertainties that could cause actual outcomes and results to be different 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. Additional factors that might affect: a) our packaging segments include product capacity, supply, and demand constraints and fluctuations, including due to virus and disease outbreaks and responses thereto; availability/cost of raw materials, equipment, and logistics; competitive packaging, pricing and substitution; changes in climate and weather; footprint adjustments and other manufacturing changes, including the startup of new facilities and lines; failure to achieve synergies, productivity improvements or cost reductions; unfavorable mandatory deposit or packaging laws; customer and supplier consolidation; power and supply chain interruptions; potential delays and tariffs related to the U.K.'s departure from the EU; changes in major customer or supplier contracts or a loss of a major customer or supplier; political instability and sanctions; currency controls; changes in foreign exchange or tax rates; and tariffs, trade actions, or other governmental actions, including business restrictions and shelter-in-place orders in any country or jurisdiction affecting goods produced by us or in our supply chain, including imported raw materials; 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 above plus: the extent to which sustainability-related opportunities arise and can be capitalized upon; changes in senior management, succession, and the ability to attract and retain skilled labor; 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; the ability to manage cyber threats; litigation; strikes; disease; pandemic; labor cost changes; rates of return on assets of the Company's defined benefit retirement plans; pension changes; uncertainties surrounding geopolitical events and governmental policies both in the U.S. and in other countries, including policies, orders and actions related to COVID-19, the U.S. government elections, stimulus package(s), budget, sequestration and debt limit; reduced cash flow; interest rates affecting our debt; and successful or unsuccessful joint ventures, acquisitions and divestitures, and their effects on our operating results and business generally.

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For further information: Media Contact: Joanna Climer, (303) 939-7041, jclimer@ball.com; Investor Relations: Ann Scott, (303) 460-3537, ascott@ball.com

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