

## Ball Aerospace Conducted Successful Evaluation of Testbed for DARPA's Hallmark Program

BOULDER, Colo., April 26, 2018 /PRNewswire/ -- Ball Aerospace successfully completed the second of five evaluations of the Space Evaluation and Analysis Capability (SEAC) testbed it is developing for the Air Force Research Laboratory (AFRL) and Defense Advanced Research Projects Agency's (DARPA's) Hallmark program, demonstrating its open-architecture, open development and developer-community driven approach. The program is advancing technologies that deliver real-time space-domain awareness to command and control and protect space assets.

"As the SEAC provider, Ball is leveraging its heritage with operational system development to innovate new technologies with open-source software," said Steve Smith, vice president, Systems Engineering Solutions (SES) business, Ball Aerospace. "This open-architecture model will lend itself to tool developers and help create efficiencies in the government environment, ultimately protecting vital space assets."

The role of the Hallmark program SEAC testbed is to support multiple tools and technologies developed by various companies and academic institutions that will make up the system's technical capabilities and include operator interfaces, simulation and scenario playback capabilities to stimulate these tools. Ball is embracing DARPA's "zero-integrator" approach to the SEAC testbed design, which eliminates the single-contractor integration bottleneck in traditional acquisition models, and is implementing modern DevOps software development practices that empower external tool developers to deliver new capabilities faster without risking system security or stability by developing and testing in an operations-like environment.



"To assess the effectiveness of the testbed and tools during the recent evaluation event, Ball simulated three different government-provided scenarios that required a timely analysis and response," said Carl Fischer, chief technologist, Advanced ISR Solutions, Ball Aerospace. "Leveraging our development environment and simulated operation floor, Ball demonstrated the speed at which the system can be updated."

Tool developers independently identified areas for improvement and delivered software updates in less than three hours. Then within an hour, Ball engineers deployed the updates and were able to show that the additional functionality was available in the system.

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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," "believes," "targets," "likely" 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 of 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](http://www.sec.gov). Additional 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; competitive activity; failure to achieve synergies, 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 a loss of a major customer or supplier; political instability and sanctions; currency controls; changes in foreign exchange or tax rates, including due to the effects of the 2017 U.S. Tax Cuts and Jobs Act; and tariffs or other governmental actions in any country affecting goods produced by us or in our supply chain, including imported raw materials, such as pursuant to section 232 of the U.S. Trade Expansion Act of 1962; 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 geopolitical events and governmental policies both in the U.S. and in other countries, including the U.S. government elections, budget, sequestration and debt limit; reduced cash flow; ability to achieve cost-out initiatives and synergies; interest rates affecting our debt; and successful or unsuccessful joint ventures, acquisitions and divestitures, including with respect to the Rexam PLC acquisition and its integration, or the associated divestiture; the effect of the acquisition or the divestiture on our business relationships, operating results and business generally.

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