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NEWS RELEASE

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Latest Version of Curtiss-Wright's IADS Flight Test Analysis Software Expands Capabilities

Latest release of IADS Software Suite adds support for TmNS, TSPI, Nichols plots, and IRIG-106 Chapter 8 and features enhanced video processing capabilities

ASHBURN, Va. – September 26, 2023 – Curtiss-Wright's Defense Solutions Division has announced the latest version of its industry-leading IADS real-time and post-test display and analysis software suite for flight test programs. IADS version 9.2.6 adds a wide range of new features and enhancements that increase the flexibility and productivity of flight test programs while improving the flight test engineer's user experience.

Telemetry Network Standard Data Support

The newly released version of IADS expands support for additional flight test data type standards. Responding to customer demand, IADS now supports the Telemetry Network Standard (TmNS). Released in IRIG-106-19, TmNS is a bidirectional, Ethernet telemetry protocol. Curtiss-Wright flight test instrumentation (FTI) product family includes numerous I/O modules that support output of TmNS data, and the enhanced IADS software suite now enables that data to be displayed for analysis.

Time-Space Position Information Data Support

The Time-Space Position Information (TSPI) data format enables real-time telemetering via Ethernet and/or Chapter 4 PCM (clock and data). Curtiss-Wright has added support for TSPI encoded data to IADS, including all standard TSPI features, such as moving map, artificial horizon, etc. This enables the software suite to output TSPI positional and orientation data output from products, such as the MiTSPI nTTU-2600 Miniature Network TSPI data acquisition stack.

Nichols Plot Display Support

Designed from the ground up for use in aerospace flight test programs, IADS, running on a typical PC environment, enables users to flexibly configure their window view, providing display (or widget) options within the main window to flexibly present data of interest. Adding to its wide support for displaying and analyzing data, including FFTs and power spectral density plots, IADS now supports the display of Nichols plots. These plots allow flight test engineers to chart the gain versus phase for an open-loop response. The addition of Nichols plot graphing further enhances the flexibility, ease of use and ease of configuration of IADS, enabling flight test engineers to set up their test and analysis environment to meet their program's specific application requirements.

IADS supports hundreds of data display options, including strip charts, FFTs, cross-plots, moving maps, artificial horizon and various types of airplane style gauges (for altitude/speed, etc).

Updated Video Data Support

One of the powerful and popular features of IADS is its Scrollback function. Scrollback enables the user to, at any point, pause the live data and go backwards to an earlier point in time during the flight test. In IADS, all data is time-stamped from the same time base, and distributed throughout the flight data acquisition system, so all devices are synchronized. When Scrollback is used, all data and displays, including video, are updated at the same time, to display data from the exact same moment. For the latest version of IADS, Curtiss-Wright has completely re-written the software's suites video processing portion. This rewrite greatly increases the variety of video data types that can be played by IADS and improves the synchronization between the video data and the rest of the flight test data.

IRIG-106 Chapter 8 Support

Curtiss-Wright has also added support for IRIG-106 Chapter 8, which is supported by many Curtiss-Wright MIL-STD-1553 bus encoder products, to the latest version of IADS. This provides an example of Curtiss-Wright's commitment to optimizing interoperability across its entire FTI system solution product family.

About IADS

IADS is the flight test market's leading real-time and post-test display and analysis software suite. Scalable, from a single laptop to a large workgroup, through its client/server software architecture, IADS provides flight test engineers with a complete solution that includes real-time data processing, archiving, computation and display.

As the industry's premier flight test software suite, IADS is used by every major test program in the U.S. and in many other countries worldwide. It enables flight test engineers to monitor, in real-time, huge amounts of data collected from an aircraft during a flight test program. This data is used to help validate the successful completion of test points and for safety. IADS also enables detailed analysis of the data to be performed post-test, using IADS Post Test Explorer, a data search, analytics, and visualization platform designed specifically for the flight test industry.

With support for user-customizable data display, use of IADS and IADS Post Test Explorer significantly improve flight test efficiencies and helps to speed program completion.

Product sheets for IADS and IADS Post Test Explorer software are available for download here.

For additional information about Curtiss-Wright Defense Solutions products, please visit www.curtisswrightds.com, LinkedIn, and Twitter @CurtissWrightDS.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation (NYSE:CW) is a global integrated business that provides highly engineered products, solutions and services mainly to Aerospace & Defense markets, as well as critical technologies in demanding Commercial Power, Process and Industrial markets. We leverage a workforce of approximately 8,400 highly skilled employees who develop, design and build what we believe are the best engineered solutions to the markets we serve. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing innovative solutions through trusted customer relationships. For more information, visit www.curtisswright.com.

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