

FOR IMMEDIATE RELEASE

Right Hemisphere® Provides 3D Courseware Media Software for F-35 Joint Strike Fighter Program

Right Hemisphere Software Creates Engaging, Animated 3D Media Objects for F-35 JSF Aircraft Training Courseware

April 12, 2004, San Ramon, CA, USA - Right Hemisphere, a leading provider of visual communication solutions, announced today that global defense giant Northrop Grumman Corporation is using its Deep Server™ enterprise software to generate rich, interactive 3D training materials for the F-35 Joint Strike Fighter (JSF) training system. The software will enable Northrop Grumman to do its own computer-aided design (CAD) file conversions, taking information directly from engineering, converting it into a transportable file format, and instantly incorporating it into training materials.

With actual engineering data incorporated into training materials, users will be able to interact directly with different parts of the aircraft design—from engine to weapons system—as they will appear in their true, physical form. This promotes faster understanding and immediate application. Right Hemisphere software will also give Northrop Grumman the ability to animate aircraft parts, such as the rudder pedals to illustrate their precise movement. In the past, this animation process could take a week. With Right Hemisphere software, it was accomplished in 30 minutes.

Right Hemisphere's Deep Server software extracts original F-35 CAD data and translates it into its file format. This step creates smaller files that can be imported easily into other applications without sacrificing technical accuracy and image quality. For example, a rudder pedal model can be converted into an HTML model and accessed through a browser. Or when used in conjunction with Right Hemisphere's Deep Server, the company's Illustration Module software can take the rudder pedal model and generate a 2D technical illustration, complete with callouts. These simplified 2D illustrations are ideal for maintenance manuals and training materials.

"Providing effectiveness at an affordable price is at the core of the F-35 program's mission," said Michael Lynch, Right Hemisphere's chief executive officer. "We are confident we can also serve that mission. As a technology supplier to Northrop Grumman, we deliver software products that enable the presentation of extremely technical information in a rich, interactive 3D format that promotes fast understanding and immediate application. Studies show that media rich materials—especially those that integrate 3D visuals, animation and interactivity—greatly speed the learning process and result in higher retention."

The Lockheed Martin F-35 JSF is a stealthy, supersonic multi-role fighter designed to replace a wide range of aging fighter and strike aircraft. Three variants derived from a common design will ensure F-35 meets the performance needs of the U.S. and U.K. military services and allied defense forces worldwide, while staying within strict affordability targets.

Hundreds of people will use Right Hemisphere tools for F-35 courseware creation and many more will depend on the Right Hemisphere Deep Viewer to look at this

content during its development and in its operational form. To meet these training needs, the courseware team at Northrop Grumman is using the following Right Hemisphere software products.

- Deep Server – a graphical processing server that automates the process of re-purposing CAD and other 2D/3D data types across the enterprise.
- Deep Exploration™ – client software for the individual user that provides easy navigation tools to search and view 2D/3D CAD models or to quickly translate 2D/3D file formats with optional animation translation capability.
- Deep Viewer – enables free viewing of 3D content within Microsoft® Office PowerPoint™, Word and Excel applications.
- Deep Publish – empowers non-technical users to import and repurpose complex 3D data into Microsoft Office applications with ease.
- CATIA® and Unigraphics® Modules – allow users to directly access and easily import CAD files created with CATIA and Unigraphics software into mission-critical business or office applications.
- Illustration Module – takes 3D CAD models and outputs them into high quality line art and shaded illustrations for use in technical documentation for print, Web, and multimedia presentations.

For more information on Right Hemisphere software solutions, please visit www.righthemisphere.com or call Right Hemisphere toll free at (877) 309 3204.

About Right Hemisphere

Right Hemisphere is the leading provider of visual communication solutions. Right Hemisphere enables non-engineering staff to easily re-use engineering data in visual communication solutions like training, documentation, marketing and support. The company's Deep Server software replaces expensive manual processes with automated, open, and scalable solutions that make high-impact *interactive* 2D and 3D content an affordable reality for communicating technical information, marketing highlights or complex support procedures. Enterprises can now efficiently capitalize on investments in engineering design to increase sales; cut documentation, support and training and costs; and speed products to market. For more information please visit www.righthemisphere.com or call toll free at (877) 309-3204.

Media Contact:

Mary Alice Krayecki

+1.818.557.0003 X 706

maryalice.krayecki@righthemisphere.com

Copyright ©2004 Right Hemisphere. All other brand names, product names, or trademarks belong to their respective holders.