LDRA Tool Suite Selected for Industry-Leading Structural Coverage and Standards Compliance

100 percent structural coverage drives Wind River choice of LDRA for DO-178 compliance and certification needs

Wirral, U.K. 8 July 2015—LDRA, the leader in standards compliance, automated software verification, source code analysis and test tools, announces that Wind River® has selected the LDRA tool suite and DO-178 Qualification Support Packs for both internal software quality assurance and to help Wind River customers expedite the qualification and certification of their aerospace and defense applications. LDRA's selection hinged on the ability of its tools to achieve 100 percent MC/DC coverage at both source and assembler levels (object code verification) and to perform data coupling and control coupling analysis.

Wind River needed to achieve the highest, most rigorous levels of qualification and certification to construct and verify its next-generation Wind River VxWorks® with safety profile and VxWorks 653 3.0 real-time operating systems used in multiple safety-related market segments. The LDRA tool suite offered the structural code coverage and rigorous analysis that enabled Wind River to produce high-quality COTS certification products for its customers.

"With LDRA tools, we could achieve 100 percent structural coverage at the source and assembler level and perform the rigorous data and control coupling analysis," confirmed Joe Wlad, Senior Director, DO-178 Certification, Wind River. "By incorporating LDRA tools into our verification processes, we can address the challenges of providing quality systems with repeatable safety and security artifacts."

"DO-178 has an exemplary reputation for excellent software standards within the aerospace and defense industry. By integrating our tools into their processes, Wind River has created a certification tool chain that builds, debugs, and verifies safety-critical systems to the highest safety requirements," said Ian Hennell, Operations Director at LDRA. "Full compliance is a rigorous process—our combined offering speeds rapid verification and lowers verification and certification costs."

The LDRA tool suite brings advanced software testing capabilities to the VxWorks platform. LDRA stands as the sole software verification provider capable of delivering object code verification, as well as providing the high-assurance data and control coupling analysis mandated by safety- and security-critical standards such as DO-178C, ISO 26262, IEC 61508, EN 50128, and IEC 62304. LDRA provides this level of software analysis across a wide range of architectures, including ARM, PowerPC, MIPS, and Intel.

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About LDRA

For more than forty years, LDRA has developed and driven the market for software that automates code analysis and software testing for safety-, mission-, security-, and business-critical markets. Working with clients to achieve early error identification and full compliance with industry standards, LDRA traces requirements through static and dynamic analysis to unit testing and verification for a wide variety of hardware and software platforms. Boasting a worldwide presence, LDRA is headquartered in the United Kingdom with subsidiaries in the United States and India coupled with an extensive distributor network. For more information on the LDRA tool suite, please visit www.ldra.com.

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