DDS & Beyond

High Performance Networking for Complex, Distributed and Safety-Critical Systems

A Technology Seminar hosted by Real-Time Innovations (RTI) and Dedicated Systems Australia

Adelaide: 2nd June 2010, Technology Park Conference Centre, Mawson Lakes

Since the OMG's (Object Management Group) 2004 introduction of the "Data Distribution Service for Real-Time Systems (DDS)" standard, DDS has become the fundamental component of most high-performance infrastructure systems designed for military systems.

DDS's high-performance messaging and data distribution software enables the development and integration of distributed applications that require low-latency, high-throughput, high-scalability, deterministic responses and minimal consumption of network, processor and memory resources. DDS meets the unique and demanding requirements of mission-critical real-time systems, including the ability to run in dynamic and autonomous environments and over unreliable or low-bandwidth networks such as wireless and satellite links.

The DDS standard is constantly evolving to address end user requirements. An ever increasing array of complementary tools and networking technologies are emerging as a result of continued uptake and popularity of DDS. DDS is rapidly becoming the high-performance Enterprise Service Bus (ESB) for real-time Service-Oriented Architectures (SOA).

9.30am   *Registration*

10.00am   *- A review of the DDS open standard for real-time data distribution*

   - Insights into advanced architectural concepts and applications using DDS

   - New tools for routing DDS data over wireless, WAN, and legacy networks, for connecting DDS to Web Services, for monitoring DDS networks

   - Changes to the DDS standard and new DDS-related standards being adopted in 2010

12.30pm   *Q&A Session and Light Lunch*

About the speaker:

Dr. Howard Wang is a Principal Applications Engineer at Real-Time Innovations, Inc.

He is an expert in embedded real-time systems and the practical application of DDS technology to end user systems.

Howard joined RTI in 1996. He has consulted with the NASA Kennedy Space Center in helping to rewrite the launch and processing software for the Space Shuttle, with Alstom Schilling Robotics in developing control software for robotic manipulators and remotely-operated vehicles, and with a variety of companies working on distributed, networked applications.

Howard holds a PhD and an MS in Aeronautics and Astronautics from Stanford University, as well as BSEs in Aerospace and Computer Engineering from the University of Michigan.

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This seminar is open to all but places are strictly limited.