THE *Open* GROUP

Making standards work™

Real-time & Embedded Systems

The marketplace for Real-time and Embedded Systems is growing at an exponential rate. Users of this technology face a set of challenges: the need for fast, predictable, and bounded responses to events such as interrupts and messages, and also the ability to manage system resources to meet processing deadlines. However, few standards exist that address this marketplace. The Real-time and Embedded Systems Forum intends to plug this gap by bringing together system developers and users to build upon existing standards where they exist, evolve Product Standards that address market requirements, and develop Testing and Certification Programs that deliver products meeting these requirements. Ultimately the vision of the Forum is to grow the marketplace through the development of standardized systems based on real product solutions.

The Challenge

The Real-time and Embedded Systems Forum has been formed to complement existing standards by packaging them into coherent sets, and developing Test Suites and a Certification Program to assure conformance.

Industry sectors that will benefit from the Forum include aerospace/defense, telecommunications, manufacturing, automotive, and medical/scientific research.

The Role

The Real-time and Embedded Systems Forum leverages The Open Group's diverse membership to bring together leading vendors with corporate and government customers. This will advance standards development based on real product solutions. It will also establish test tools for suppliers to use to establish confidence that their products conform, and an independent Certification Program that delivers guaranteed conformance to the buyer.

Work Areas

Testing and Certification for Real-time and Embedded Systems and Applications

Specifically building upon existing work, extending them to address market requirements. The scope includes POSIX Profiles, Linux for Embedded Systems, and Safety and Mission-Critical Realt-time Java.

Open Architecture

Develop a reference open architecture for real-time and embedded systems, that would be mutually beneficial for the various open architecture approaches from government, corporations, and system integrators.

Security for Real-time and Embedded Systems

Examining the intersection of security requirements with real-time and embedded systems to develop reference Protection Profiles.

Real-time Java

Develop specifications for safety and mission-critical environments.

Real-time & Embedded Systems

About The Open Group

The Open Group is a vendor-neutral and technology-neutral consortium, whose vision of Boundaryless Information Flow™ will enable access to integrated information within and between enterprises based on open standards and global interoperability. The Open Group works with customers, suppliers, consortia, and other standards bodies. Its role is to capture, understand, and address current and emerging requirements, establish policies, and share best practices; to facilitate interoperability, develop consensus, and evolve and integrate specifications and Open Source technologies; to offer a comprehensive set of services to enhance the operational efficiency of consortia; and to operate the industry's premier certification service, including UNIX certification. Further information on The Open Group can be found at www.opengroup.org.

A Global View

In the global e-commerce world of today, no single economic entity can achieve independence while still ensuring interoperability. The assurance that products will interoperate with each other across differing systems and platforms is essential to the success of e-commerce and business workflow. The Open Group, with its proven testing and certification program, is the international guarantor of interoperability in the new century.

Products and Services

The Open Group provides a number of services: Certification and Testing, Advanced Research, and Consortia Services. Additionally, our Program Forums in Application Resource/Quality Management, IT Architecture, Directory Interoperability, Messaging, Enterprise Systems Management, IT Platform, Real-time & Embedded Systems, and Security provide our members with the opportunity to guide the development and adoption of industry directives and standards. The Open Group quarterly Conferences and Member Meetings are the only forum in which IT customers and suppliers come together to discuss their corporate and industry needs.

Membership

The Open Group members include some of the largest and most influential organizations in the world: Fujitsu, Hitachi, Hewlett-Packard, IBM, Sun Microsystems, the US Deptartment of Defense, NASA, Apple Computer, Boeing, and many others. Why do all these organizations value membership in The Open Group? The Open Group provides opportunities to exchange information and shape the future of IT. Members of our Program Groups and Forums gain access to information and ideas on a level they otherwise could not attain; from industry-shaping events to academic research breakthroughs. The buy-side members of The Open Group have combined budgets of over $50 billion per annum. The flexible structure of The Open Group membership allows for almost any organization, no matter what their size, to join and have a voice in shaping the future of the IT world.

For More Information

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