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Real-Time & Embedded Systems Forum



The Real-time and Embedded Systems Forum defines, coordinates, integrates and prioritizes real-time and embedded systems standards utilizing various existing architectural approaches. The Forum also defines test suites and certification programs for products adhering to these standards to enable the proliferation of conformant real-time and embedded systems.

What we do

The Forum is a focal point for real-time and embedded systems developers and customers, as well as other industry standards groups, and is working on:

Profiles and Certification

for real-time and embedded systems and applications, including POSIX® Profiles, Linux® for Embedded Systems, and Safety and Mission-Critical real-time Java®.

[→ more](#)

Security

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

[→ more](#)

Safety/Mission Critical Applications

Working with Commercial-Off-The-Shelf (COTS) component developers and system integrators to remove barriers for the use of COTS in safety-critical systems.

[→ more](#)

Open Architecture

Developing a reference architecture.

[→ more](#)

Real-time Java®

Developing two Java Specification Requests (JSR) for submittal to the Java Community Process

[→ more](#)

For additional background information about the activities of the Forum

[→ more](#)

The architecture approaches being considered by the Forum include those from corporations and system integrators, as well as:

- U.S. Department of Defense Joint Integrated Open Architectures
- Navy Open Architecture
- Air Force Viable Combat Aircraft Joint Council on Aging Avionics
- Modular Open Systems Approach Interoperability Initiative

Member Notices

Join us at our Washington DC conference!

[Architecting to the Edge™](#)
April 24-26 2006

Read the [Agenda](#)

The conference will run in parallel with
[The Open Group Member Meetings](#)

[→ members' site](#)

Liaisons And Industries

The Forum has established liaisons with:

- IEEE Portable Application Standards Subcommittee (PASC) Realtime System Services working group (SSWG RT)
- Object Management Group (OMG)
- International Committee for IT Standards (INCITS) R1
- Society of Automotive Engineers (SAE)
- J Consortium
- Java Community Process
- Embedded Linux Consortium
- NIST Process Control Security Requirements Forum (PCSRF)
- Uniform Driver Interface (UDI) Consortium
- NATO Research Task Group on Validation, Verification and Certification of Embedded Systems
- Joint Council on Aging Aircraft
- US Army Weapon Systems Technical Architecture Working Group (WSTAWG) (US Army OE)
- Process Control Systems Cyber Security Forum
- ARINC 653 Working Group

- Army Weapon Systems Common Operating Environment

The industry sectors targeted by the Forum include:

- Aerospace/defense
- Telecommunications
- Manufacturing
- Automotive
- Medical/scientific research

Key Accomplishments

- Test suites for IEEE POSIX 1003.13-1998, Profiles 52 and 54
- Conformance and Safety Critical White Papers
- Security for Real-time and Embedded Environments RFI
- Separation Kernel Protection Profile at EAL7

Members

The Forum has worldwide and cross industry representation, with over 50 organizations participating in its activities.

→ [more](#)

Work areas

- [Real-time Java](#)
- [Real-time Operating System Profiles](#)
- [Real-time Security](#)
- [Safety Critical](#)
- [Safety Critical Core Subscribers](#)
- [Safety Critical Java Specification Development](#)
- [Open Architecture for Real-time and Embedded Systems](#)
- [Goal-based Operations](#)

More Information

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HOW TO PARTICIPATE

The Forum welcomes participation by all interested parties. If you would like to influence the direction and outcome of the Forum, have early access to specifications and participate in defining industry standards, join The Open Group.

→ [become a member](#)

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