



Real-time and Embedded Systems Forum

Executive Overview
May 2000

Real-time and Embedded Systems

THE *Open* GROUP

- ❑ RT Implementers face the following challenges:
 - need for fast, predictable, & bounded response to events
 - ability to manage system resources
 - ability to meet processing deadlines
- ❑ Device and platform proliferation compounds challenge
- ❑ Existing standards fail to address the problem
- ❑ Industry through The Open Group will address this head on through the creation of the RT FORUM!

The RT Forum Mission

THE *Open* GROUP

To grow the market for real-time and embedded systems by providing a certification program supported by tests suites and based on specifications from existing products and standards.

The RT Forum will work with the appropriate industry groups as an independent party and standards integrator to review existing specifications and requirements to avoid duplication and redundancy. Relationships will be established with but not limited to: IEEE PASC, SAE, OMG, NCITS-R1, and UDI Consortium

Proposed RT Forum Work Program

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- ❑ Facilitate the development of standards based on real product solutions.
- ❑ Support for a range of systems, from embedded to non-embedded.
- ❑ Build upon existing work, such as the IEEE POSIX 1003.13 Profiles, extending them to address market requirements.
- ❑ Include quality-of-service aspects to the APIs to facilitate deterministic behavior.
- ❑ Facilitate application portability between/among systems from multiple suppliers.
- ❑ Test tools for suppliers to establish confidence their products conform.
- ❑ An independent certification program that delivers guaranteed conformance to the buyer.

Inaugural Meeting

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- The RT Forum will launch on 28 June
 - The Open Group conference in Austin, Texas
 - Outputs will be a work program and schedule
- The RT Forum membership will comprise:
 - Operating system suppliers
 - Tools suppliers
 - Buyers deploying real-time and embedded systems
- *Projects and schedule will be agreed and executed by the RT FORUM Members*
- For additional information contact The Open Group
<http://www.opengroup.org/rtforum>

RT Forum Membership Entitlements

THE *Open* GROUP

- ❑ **Participation and voting rights**
 - Attend all meetings
 - Vote within forum on all specifications
- ❑ **POSIX® Test Suite Right-to-Use License**
 - VSRTE - POSIX 1003.1d Additional Real-time Extensions
 - VSART - POSIX 1003.1j Advanced Real-time Extensions
 - VSTRC - POSIX 1003.1q Trace
 - Support available
- ❑ **For membership information contact The Open Group**
membership@opengroup.org