



# The Real-time and Embedded Systems Forum

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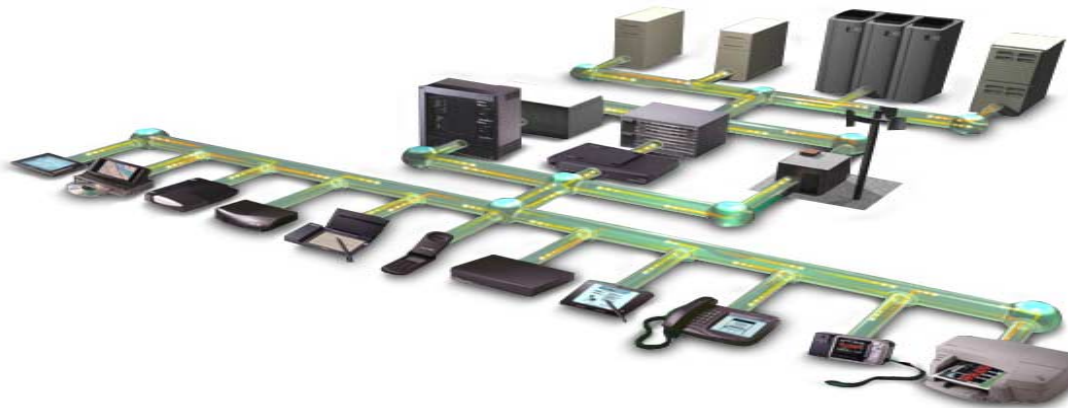
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# Real-time and Embedded Systems - Vision

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The Vision of the Real-time and Embedded Systems Forum is to grow the marketplace for standardized real-time and embedded systems, through the deployment of standards and associated certification programs.



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# Real-time and Embedded Systems - Roadmap

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Building on 2001 achievements the planned deliverables for 2002 are as follows:

- ❑ Test Suites for POSIX Profiles 51 and 53
- ❑ Certification program for POSIX Real-time Profiles
- ❑ Security Specifications for Real-time & Embedded Systems
- ❑ Protection Profile for Real-time and Embedded Systems
- ❑ Initiate a Test and Certification Program for Security for RT&ES
- ❑ Develop Best Practices for Safety Critical Applications with an initial focus on the avionics domain
- ❑ Formalize the Hard Real-time Java Requirements Working Group
- ❑ White Papers for Security and Safety Critical Applications

# Membership

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- ❑ Continues to grow
  - ❑ OAR Corporation
  - ❑ RE-GIS
- ❑ Expect 4 new members prior to next meeting

# Report on RT Working Groups - October 2001

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## **1. Testing and Certification Group**

**-- Did not meet**

## **2. Real-time Profiling Group**

**-- Did not meet**

## **3. Joint Real-time and QoS Working Group**

**-- Did not meet**

## **4. Hard Real-time Java requirements**

**-- 20 attendees**

**-- Requirements collection to continue with emphasis on FAA certification requirements (DO-178B)**

# Report on RT Working Groups

## October 2001

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### **5. Security for Real-time and Embedded Systems Group.**

- 17 attendees**
- Final review of RFI for Security for RT & ES**
- RFI to be issued 2 November - responses due by 20 January 2002**
- Expect Security Specifications 3 Qtr 2002**

### **6. Safety Critical**

- 8 attendees**
- Outlined Approach with review of draft WP**
- Identified Domains**

# Working Group Champions

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- ❑ Security - Sam Bowser
- ❑ Hard Real-time Java - Robert Allen/LTC Logan
- ❑ RT Profiles - Andrew Josey/Joe Gwinn
- ❑ Testing and Certification - Lt Col Glen Logan
- ❑ Safety Critical - Dave Emery

# Anaheim Agenda

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Wednesday

- ❑ RT Linux Interest Group
  - ❑ Real-time and Linux
  - ❑ POSIX Threads and Linux
  - ❑ POSIX Real-time Profile including a working session with IEEE PASC SSWG-RT
- ❑ Parallel Session in the afternoon on Safety Critical

# Anaheim Agenda

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## Thursday

- ❑ Track 1
  - ❑ Joint Session with QoS in the morning
  - ❑ Hard Real-time Java
  - ❑ Real-time access to Database
- ❑ Track 2
  - ❑ Security for Real-time and Embedded Systems
    - ❑ Note early start at 0830 hours
    - ❑ Security could continue Friday morning
- ❑ Thursday Evening – BOF Open Systems Military Applications (Lt Col Glen Logan, OSJTF)

# Meetings for CY 2002

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- ❑ April 10-11 Paris, France
- ❑ July 24-26 Boston, Massachusetts
- ❑ October 23-25 Cannes, France
  
- ❑ Possible focused meetings in United States
  - ❑ Security
  - ❑ Safety Critical