# "Dependability through Assuredness ™"



Summary of Boston Sessions presented by the RTES Forum --

20 July Tuesday - 1) Dependability through Assuredness featuring two committee members, Dr. Daniel Jackson from MIT and Dr. John Rushby from SRI for the National Academy of Science's publication "Software for Dependable Systems: Sufficient Evidence?" 2) High Assurance Security, Standardization of MILS APIs, chaired by Rance DeLong from LynuxWorks and Paul Chen from Wind River, MILS Requirement for UAVs, Rob Hoffman from High Assurance Systems, Evaluation and Certification of High Assurance Commercial off the Shelf Products (COTS) and International Mutual Recognition of the Certified Security Products.

21 July Wednesday - 1) Mission Assurance featuring Harriet G. Goldman, Director of Cyber Mission Assurance, serving as the MITRE focal point for Mission Assurance in support of the Department of Defense and Intelligence customers, responsible for raising awareness of the advanced cyber threat across government and industry and developing strategies, technologies and processes to address customer cyber security and mission assurance needs. A Mission Assurance Business Scenario workshop, conducted by Terry Blevins, Chief Architect and Associate Department Head, MITRE, will follow Ms. Goldman's presentation, 3) SYSML Tutorial by Ed Roberts from Elparazim, 4) Progress on the Open Systems Architecture Guidebook, Edwin Lee from Raytheon, 5) A Joint Session with the Security Forum on "Architecting for Uncertainty", 6) Update on the JSR 302 Expert Group Specification for Safety Critical Java.

22 July Thursday - 1) An update on the AFRL HAMES Project by Carolyn Boethcher from Raytheon, 2) High Assurance Security Requirements: for the US Government and Critical Infrastructure by Dr. Ron Ross from NIST and for the Medical Field by Partners HealthCare System. Immediately following the presentations there will be a Workshop/Discussion on High Assurance Requirements facilitated by Rance DeLong, 3) Developing an Approach to Evaluation and Certification for High Assurance Security Commercial Products. 4) A joint session with the Security Forum to progress Secure Mobile Architecture (SMA) including a presentation on a series of use cases, 5) A wrap-up on the activities of the RTES Forum going forward.

#### Real-time & Embedded Systems Forum Vision and Mission

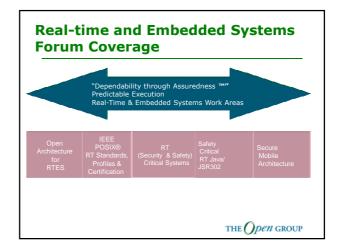
#### <u>RTES Vision</u>

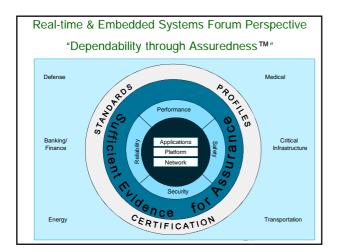
 Employ widely supported and open real-time standards and enabling technologies to deliver testable and certifiable cost-effective, missioncapable systems.

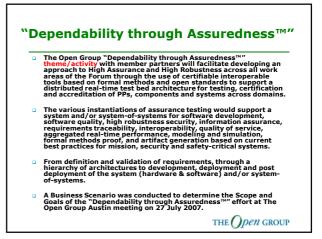
#### <u>RTES Mission</u>

 Improve the time and cost to market adoption of real-time and embedded solutions by providing a forum where we can share knowledge and integrate open initiatives, and certify approved products and processes.

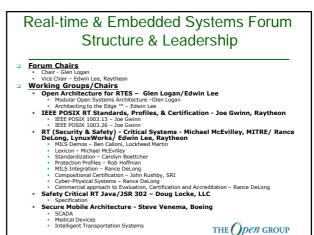
THE *Open* group











### "Dependability through Assuredness™"

# Boston, Hyatt Haborside - Track Agenda sponsored by The Open Group *RTES Forum*: 19-22 July 2010

### Monday 19 July:

Open Sessions of interest to RTES Forum Members

- 09:00 12:30 Cybersecurity: The Intentional Enterprise in an Uncertain World www.opengroup.org/boston2010/sub-prog-plenary-1.htm
- 14:00 17:30 The Acquisition Cybersecurity (ACS) Initiative www.opengroup.org/boston2010/acs.htm
- 16:00 1630 Mission Assurance, Harriet Goldman, Mitre See Plenary Security Track <u>www.opengroup.org/boston2010/program.htm</u>

### Tuesday 20 July:

09:00 – 09:15 Introduction to the RTES Forum: Overview of the forum mission, work areas and work group . activities - Joe Bergmann, Forum Director, The Open Group

09:15 – 10:00 MILS Architecture/APIs: Objectives, Vision and Overview of the MILS API Requirement from a . Minimal Runtime Perspective - Rance DeLong/Paul Chen, Co-Chairs of the MILS API WG

10:00 – 10:30 MILS Architecture/APIs: Facilitated session to identify and prioritize the outstanding Issues . related to scope and market adoption of a MILS API - Facilitated by Sally Long

10:30 - 11:00 Break

11:00 – 11:15 Update MILS Architecture Requirement for UAVs – Rob Hoffman, CEO High Assurance Systems

11:15 – 12:30 MILS Architecture/APIs: Interactive discussion to begin working through issues identified above 12:30 – 13:30 Lunch

14:00 – 17:30 Parallel Activity: ACS Initiative - See Open Sessions:

13:30 - 14:30 Dependability through Assuredness: "Dependability by Design" - Dr Daniel Jackson, MIT

14:30 - 15:30 Dependability through Assuredness: "Making the Case" - John Rushby, SRI

15:30 - 16:00 Break

16:00 – 17:00 Dependability through Assuredness: Panel Disscussion, Jack Fujieda - ReGIS, Glen Logan -Chair RTES Forum. John Rushby – SRI, et al.

### Wednesday 21 July:

08:00 – 09:00 Mission Assurance – Harriet Goldman, MITRE

09:00 - 10:30 Mission Assurance Scenario Workshop - Facilitator Terry Blevins, MITRE

10:30 - 11:00 Break

11:00 – 11:30 Report on latest release and support for DODAF 2.0 - Glen Logan, Chair RTESF

11:30 – 12:30 TOGAF RTES Extension and RTES Reference Model Overview - Ed Roberts, Elparazim

12:30 – 13:30 Lunch

13:30 – 15:00 SysML Overview and Tutorial - Ed Roberts, Elparazim

15:00 – 15:30 Open System Architecture & Guidebook Update - Edwin Lee, Raytheon, Vice Chair RTESF

15:30 - 16:00 Break

16:00 – 17:30 "Architecting for Uncertainty" Workshop - Joint session with Security Forum – Mike Jerbic et al.

17:30 – 18:00 Safety Critical Java (JSR 302) Status and Future Plans - Doug Locke, LC Systems Services, Inc

19:00 - 2130 Potential BOF if needed to develop TOGAF to the Platform requirements (i.e. Properties,

Constraints, etc.) to support High Assurance and Safety Critical Environments.

## Note: The SC Java (JSR302) Expert Group will meet in in Boston 20-22 July. Send requests for information and permission to attend the Expert Group meeting to Doug Locke <u>doug@douglocke.com</u>

1 of 2 Pages

This agenda is subject to update.

As of 7 July 2010

## "Dependability through Assuredness™" (Continued)

# Boston, Hyatt Haborside - Track Agenda sponsored by The Open Group *RTES Forum*: 19-22 July 2010

### Thursday, 22 July:

08:00 - 09:00 HAMES Presentation - Carolyn Boethcher, Raytheon
09:00 - 09:45 High Assurance Requirements: Government, Critical Infrastructure - Dr Ron Ross, NIST
09:45 - 10:30 Assurance (Security) Requirements for Medical Devices/Operating Room of the Future (TBD), Partners HealthCare System
10:30 - 11:00 Break
11:00 - 11:30 Assurance Requirements: Discussion/Workshop - Rance DeLong, et al.
11:30 - 12:30 Developing a Commercial Approach to Evaluation/Certification for High Assurance Joe Bergmann, Rance DeLong
12:30 - 14:00 Lunch = Optional Session -- AADL Tutorial and Discussion by Ed Roberts
14:00 - 15:30 Secure Mobile Architecture - Joint session with Security Forum - Steve Venema, Boeing
Use Cases -- 1) Automotive: Jack Fujieda, ReGIS
2) SCADA: Joe Weiss, Applied Control Solutions

3) Mobile Collection Devices: Glen Logan, Chair RTES Forum

15:30 - 16:00 Break

16:00 – 17:30 RTES Forum Members meeting – Going Forward, Sally Long, Joe Bergmann, Glen Logan et al.

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