

## **The Toronto RTES Forum meeting recap & Agenda –**

**---- Monday 20 July** is focused on Open Architecture with the theme "Dependability through Assuredness" featuring presentations from the Department of Defense (Canada), the Modular Open Systems Approach from the US DoD and software assurance activities supporting the US Air Force Research Laboratory.

In addition we will explore how to test for the key types of errors that are most exploited during cyber attacks. Finally we will look at what might be involved in transporting a TOGAF generated Architecture to the hardware and software platforms so as to take advantage of the open source tools being developed to support SAE's AADL and Formal Methods. This effort should result in a complete tool chain – requirements, high level architecture, down through the different architecture views, tie in to AADL at the platform (hardware and software), ability to move artifacts from one level to the next without translation, traceability back to the requirements at each level and with formal methods to provide sufficient evidence.

**----- On Tuesday 21 July** we will explore developing a Cyber Security Solution based on a MILS Architecture to include component integration, compositional certification, Automated Evaluation/Certification tools and a commercial approach to evaluation and certification.

**-----Wednesday 22 July** will be MILS day with detailed updates on the progress being made. Included will be a look at the current SKPP to see if the use of multicore processors requires an update or a new SKPP. There will be an update on recent meetings with the NSA, NATO, EDA, NSC and the EC concerning the need for a commercial approach to evaluation and certification based on commercial PPs.

**-----Thursday morning 23 July** will be dedicated to a Members meeting for the RTES Forum.

**-----Thursday afternoon 23 July** will be the kick off for the Secure Mobile Architecture Work Group looking at specifications for real-time environments supporting SCADA, Medical Devices, Intelligent Transportation Systems and potential Assurance Protection Profiles.

**----- Friday 24 July -- no meeting**

**Note: The JSR 302 SC RT JAVA Expert Group will meet in parallel 20-23 July**

**Agenda on next page ---**

As of 26 June 2009, 1030 Hours

## **High Level Toronto RTES Forum Agenda 20-24 July 2009.**

### **Monday -- 20 July 2009, 0900-1800 Hours**

Open Architecture with emphasis on "Dependability through Assuredness™"

- Introduction -- Joe Bergmann
- Modular Open Systems Approach (MOSA) -- Glen Logan
- Architecting to the Edge -- Edwin Lee
- OSA Pocket Guide
- AADL to TOGAF Workshop - to include Formal Methods -- Ed Roberts
- A Standards Based Architecture -- Craig Campbell, Department of Defense (Canada)
- AFRL work on the SwA Ecosystem -- Djenana Campara, KDM Analytics
- The OMG SwA MetaModel and Claims Argument -- Nick Mansourov, KDM Analytics

### **Tuesday -- 21 July, 0900-1730 Hours**

All day workshop on Developing a Cyber Security Solution Based on the MILS Architecture -- Rance DeLong/Joe Bergmann – to include the following:

- How to test for the key types of errors that are most exploited during Cyber Attacks – Rich Barry
- A Notional Threat Environment as input to the Protection Profile (PP)
- Component Integration with defined interfaces (Interfaces to be standardized)
- Assurance level as required resulting in Protection Profile (PP). The PP will be based on an Enterprise (domain) requirements -- for example Medical, SCADA, Avionics, or a segment of the GIG (logistics, sensors, intelligence, C2, etc.).
- Potential use of Compositional Certification

### **Wednesday -- 22 July, 0900-1730 Hours**

MILS Sessions All Day to include potential updates on the following:

- MILS Demonstrations - Ben Calloni, Lockheed Martin
- Lexicon - Michael McEvelley
- Standardization - Carolyn Boettcher
- Protection Profiles (PPs) going Forward - Rance DeLong/Carolyn Boettcher
- MILS Integration - Rance DeLong
- Compositional Certification – Rance DeLong
- Cyber-Physical Systems - Rance DeLong
- Commercial Certification and feed-back from NSA, NATO, EC, NSC & EDA meetings – Joe Bergmann
- Architecture Artifact Requirements to support RT Assurance Requirements - for example Automated Test Tools might require information for unique Properties, Attributes, Features, etc. - Joe Bergmann/Ed Roberts

### **Thursday -- 23 July, 0900-1730 Hours**

0900-1230 RTES Forum Members Meeting -- Agenda Pending

1230-1330 Hours - Lunch

1330-1730 Hours **Secure Mobile Architecture Work Group (new) - Steve Venema, Boeing**

- Workshop and Development of an Agenda Going Forward to include Potential Protection Profiles for SCADA, Medical Devices and Intelligent Transportation Systems

Friday 24 July -- No Meetings

Note: JSR 302 SC RT Java Expert Group to meet 20-23 July 09, details contact [doug@douglocke.com](mailto:doug@douglocke.com)