

Minutes of the 67th General Meeting of the Wireless Innovation Forum 13 to 15 September 2010

The 67th General Meeting of The Wireless Innovation Forum (SDR Forum version 2.0) was held 13 to 15 September, 2010 in Schaumburg, Illinois. The meeting was hosted by the Motorola. This document provides the minutes of the Forum's meeting.

The drop box for this meeting can be found at:
<http://groups.winnforum.org/p/do/si/topic=374>

The drop box is accessible to Forum members only.

The feedback form for this meeting can be found at (feedback is still welcome):
<http://bit.ly/d2sEZp>

Opening Plenary: Monday 13 September 2010

The meeting was called to order at 13:00 PM by the Chair of the Forum, Mr. Bruce Oberlies. Meeting announcements were made and an introduction was given to the Modeling Language for Mobility Work Group Document "Cognitive Radio Ontology" (document WINNF-10-S-0007) to be balloted at the Plenary level on Wednesday. Following this introduction, Mr. Oberlies initiated a review of the agenda for the 67th General Meeting and adjustments were made based on feedback received. Following this review, Mr. Oberlies recessed the Plenary until Wednesday at 10:30. The meeting was adjourned at 13:30.

Key Accomplishments in Schaumburg

The following defines the key decisions and milestones achieved in Mainz, organized by committee. Information on specific projects in development can be found at:

http://www.wirelessinnovation.org/page/Current_Projects

User Requirements Committee Meeting Minutes

- ***History of the Public Safety Special Interest Group Presented*** – Mr. Rick Taylor, representing Harris Corporation, provided an overview of the charter, scope, and history (including approved documents) of the PSSIG to the attendees of the meeting, most of which were not familiar with the group.
- ***Technology Survey Project Matured*** – The Public Safety Special Interest Group worked on editing the functional requirements identified in the Request for Information to be distributed to industry.

- **Roadmap Committee Supported** – The Public Safety Special Interest Group and the SATCOM Special Interest Group met separately with the Forum’s Technical Director, Claude Belisle, to discuss inputs to the Roadmap Committee’s new Wiki Page

Regulatory Committee Meeting Minutes

- **Plans for Q1 FY2011 Set** – The Regulatory Committee reviewed the FY2011 Operations plan and discussed actions for the next quarter to include:
 - Supporting the Roadmap Committee and Roadmap Wiki
 - Hosting a Regulatory Workshop at SDR’10
 - Issuing an RFP for regulatory counsel
 - Issuing a Regulatory Survey
 - Issuing Regulatory Alerts
 - Re-engaging with the Regulatory Advisory Committee

Committee on Next Generation Radio Technology Meeting Minutes

- **“Business Models for Open Source Air Interfaces” matured** – The Commercial Baseband Processing Technologies Workgroup (CBPT-WG) Continued to mature its report on business models for Open Source air interfaces
- **Security Work Group**
 - **“Securing Software Reconfigurable Communications Devices-Part 2” matured** – The Security Work Group continued to develop this report in support of the Public Safety communications market.
 - **“International Security Services API (ISS-API)” Project Matured** – The International Security Services API task group continued to mature this project by doing a top down analysis of API categories and requirements development via Functional Requirements Specification. They also looked bottom up at selecting a simple waveform class sample and develop artifacts against it. The next step is to work with Security WG to define mapping from existing and planned Forum security documents with IRSS API functional requirements.

Committee on Advanced Wireless Networking and Infrastructure Meeting Minutes

- **“Cognitive Radio Database (CRDB) – a Radio Environment Map (REM) anticipating future CR needs” Project Matured** – This specification is being produced for third party database providers and white space radio manufacturers to provide about database structures and standardized formats and functionalities that supports the flexibility necessary to accommodate current and future

cognitive radio spectrum applications, such as mobility, spectrum economic transactions, dropouts, handovers, available networks, and services, etc. Specific outcomes in this meeting supporting the development of this specification include:

- Identifying additional application areas related to intersection with sensors
- Agreement to create a new section on existing examples of the concept to emphasize recognition / formalization of an existing trend
- Identified some key aspects for detailed use cases: business case, security issues, CONOPS, requirements, Cost/benefit analysis
- Added discussion on difference between external monitoring and external

The workgroup also explored potential new projects, including security in Cognitive Radio systems and techniques for federal/commercial spectrum sharing. The work group will continue to explore these topics with a goal of defining a new project proposal.

- **“Test Guidelines for Secondary Spectrum Access” matured** – The document was reviewed by the Test and Measurement Work Group (TMWG) for new members, and work continued on finalizing the “completed” sections, on identifying tests required based on FCC rules and on documenting test implementation issues. During the meeting, the group reviewed the recent WinnForum FCC filing on this topic, and discussed the process of reviewing the revised TVBD rules expected to be posted by the FCC shortly.
- **Modeling Language for Mobility (MLM) Ontology Document Reviewed** – The Cognitive Radio Ontology document up for ballot this week was reviewed by the MLM work group, and group began preparing a project proposal for the next phase of the project to include:
 - Use cases for *policy based radio control*
 - Autonomous Spectrum Management for Public Safety
 - Security vulnerabilities of policies
 - Dynamic waveform adaptation and optimization
 - The use of MLM in the waveform design process
 - Analysis of the *signaling requirements, message structures and protocols* required to support the use cases
 - Include security requirements and mechanisms
 - Cognitive Radio Ontology extensions needed to support policy based radio control
 - Policies and rules for policy based radio control
 - Implementation of the use cases on a radio platform
 - Comparison of policy engines
 - Interfacing policies and policy engines with radio platforms

- Identify conditions for *turning on and off policy based control* of radio system as well as recovery and failure modes that incrementally reduce the throughput or effectiveness of the radio systems

Coordinating Committee on International SCA Standards Meeting Minutes

- ***Resetting the SCA Implementers Work Group*** – During the last 8 months, the work of the SCA Implementers groups was suspended to support the JTRS SCA Next Project. During this meeting it was decided that the work group would restart its development on an “SCA User Guide” using a Public Wiki Page. The group will create/submit a project proposal focused on using a Wiki page to define topics that should be covered first. Members will produce content. The Wiki page will also provide a list of papers published on the SCA
- ***Work on “SCA Next” Continued*** – A new project proposal on Asynchronous Messaging was approved by the Steering Group for the Coordinating Committee on International SCA Standards at this meeting, and work on this project began by the SCA Evolution Work Group. This specification is being developed for SCA platform and application developers who need higher performance for inter-component messaging, and will suggest CORBA-based solutions using asynchronous messaging that reduce message latency and allow parallel processing. The work group also discussed the SCA Component Factory, future API work, and additional SCA Next responses.

Roadmap Committee Minutes

- ***Roadmap Committee WIKI Launched*** – A WIKI has been created by the roadmap committee for contributions by roadmap members (<http://groups.winnforum.org/p/wi/ar/wid=8>) Included with this WIKI is a contribution template allowing contributors to:
 - Describe domain
 - Describe challenges or problems
 - Describe solutions / Innovations

Technical WG and SIG chairs began providing contributions based on their groups work. The committee plans to continue to solicit ***contributions*** with a goal of having a First Draft completed by March 2011, and then mining this draft to identify top 10 innovations by the closure of first version by June 2011 meeting. The committee intends to keep the WIKI active and treat it as an evolving document.

Other Highlights of the 67th General Meeting

- **Presentation on “The New Broadband Agenda: Unleashing the Wireless Broadband Revolution”** – A presentation was made by Byron Barker of NTIA providing an overview of June 2010 US Presidential Memorandum. This briefing is available in the meeting drop box.
- **Presentation on COST 902 and 905 Initiatives to the Cognitive Radio Workgroup** – Keith Nolan, representing CTVR, presented and overview of these two COST projects and discussed with the Cognitive radio Work Group possible areas of collaboration. The group agreed to broker an introduction for Keith to the Test and Measurement work group, to forward to Keith existing work products, and to involve the COST projects in the business models portion of the Radio Environment Map project.

Closing Plenary – Wednesday, 15 September 2010

The meeting was recalled to order at 10:30 hours by Mr. Bruce Oberlies. It was determined at this time that a quorum was not present, so Mr. Oberlies announced that the Cognitive Radio Ontology Document would be managed via email ballot, and that other business would be deferred until the Annual Meeting in Washington, DC.

Regional Reports – Update reports from regions 1 and 3 were presented by Mr. Oberlies on behalf of the regional representative, and an ITU region 2 report was presented by Mr. Paul Kolodzy, representing Kolodzy Consulting, as the ITU region 2 representative.

SCA Next Rollout Meeting Out Brief – Mr. Terry Anderson, representing ITT, gave an out brief from the SCA Next Roll Out meeting co-sponsored by the Forum and the JTRS Science and Technology Forum August 24 and 25 in Washington DC.

Committee Out Briefs – Out briefs were given on the outcomes of the Mainz meeting by the chairs of the Technical Committees, the Roadmap Committee, the User Requirements Committee, and the Regulatory Committee.

IPR Policy Training – Training on the Forum’s IPR Policy was given by Mr. Lee Pucker. It was agreed that this training would be repeated during plenary session in Schaumburg.

Close of the 67th General Meeting – Mr. Oberlies adjourned the meeting at 12:00 hours.