Minutes of the 65th General Meeting of the Wireless Innovation Forum
8 to 11 March 2010

The 65th General Meeting of The Wireless Innovation Forum (SDR Forum version 2.0) was held March 8 to 11, 2010 in San Diego, California. The meeting was sponsored by and collocated with the JTRS Science and Technology Forum (JSTeF), and hosted the General Meeting of the IEEE SCC41 standards development groups. This document provides the minutes of the Forum's meeting.

The drop box for this meeting can be found at:
http://groups.sdrforum.org/p/do/si/topic=322

The drop box is accessible to Forum members only.

Presentations from the JSTeF can be found in the JTRS Open Information Repository once they receive approval for release.

Pictures of the combined event can be found at: http://jtrs.calit2.net/.

The feedback form for this meeting can be found at (feedback is still welcome):
http://bit.ly/clRGc0

Opening Plenary: Monday 8 March 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 then Mr. Oberlies initiated a review of the agenda for the 65th General Meeting and adjustments were made based on feedback received.

Mr. Oberlies then asked if there was any new business and hearing none, recessed the Plenary until Wednesday at 15:30. The meeting was adjourned at 13:30.

Key Accomplishments in San Diego
The following defines the key decisions and milestones achieved in San Diego, 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

- *SDR'10 Workshops Planned* – The User Requirements Committee met in Plenary session on Monday, 8 March 2010. During this session, they agreed to organize workshops, to be held in conjunction with SDR'10 on Satellite

Communications, Tactical Radio and Public Safety communications. They will also organize an Analyst workshop as they have done the following two years. In addition, during the plenary session the User Requirements Committee also agreed to commission a market sizing report in mature industries including commercial wireless infrastructure, MILCOM, public safety and SATCOM. Work on this report will be addressed in the committee's FY2011 operations plan. The Committee also discussed the Market adoption Blog and developed a plan for expanding its reach.

- *IPA Project Matured* – A overview of the Information Process Architecture specification was given by Mr. Pete Cook, representing Hypres, to the Public Safety Special Interest Group (PS-SIG), and a sentence by sentence walk thorough of Volume 1 was performed in a joint PS-SIG/Cognitive Radio Work Group Meeting (CRWG). Takeaways from this walkthrough will be used to further mature the document during teleconferences in advance of the June meeting.

- *Technology Survey Project Proposal Matured* – The Technology Survey Project proposal was presented by Fred Frantz, representing L3 Communications, and Rick Taylor, representing Harris. The proposal was made ready for review by the Forum's Project Approval Committee, and a work plan was established.

- *Education Special Interest Group Projects Discussed* – The Education Special Interest Group discussed a number of potential projects, including a Distinguished Speaker Series, GNU Radio Labs, and Industry Request for Information on SDR curriculum, and undergraduate SDR contest, and an SDR Education resources Clearing House. Follow up on each of these project concepts was planned.

- *"Hybrid SATCOM Reference Architecture for Public Safety Applications" Project Proposal Developed* – The SATCOM Survey results were presented by Bob Schutz, representing Datron World Communications to the SATCOM Special Interest Group (SATCOM-SIG). Based on the results, the SIG agreed to propose development of a Hybrid SATCOM Reference Architecture for Public Safety Applications. A project proposal was created, and plans were made to mature this proposal for review by the Project Approval Committee in advance of the June General Meeting.

- *"Issues in the International Tactical Radio Market Domain" matured* – The International Tactical Radio Special Interest Group (ITR-SIG) reviewed this document and agreed to split the document into three sections:
  o US and European market analysis, to be led by Randy Navarro representing SAIC
  o Certification , to be led by Rafael Aguado representing Indra
  o Interoperable communications, to be led by Dave Murotake representing SCA Technica

Work plans to complete these documents by the June meeting were established, and plans began on a follow on project exploring the business case for a harmonized SCA in defense communications, business models for new requirements and new waveforms, and international test and certification approaches.

Regulatory Committee Meeting Minutes

- *New Initiatives for FY2011 Proposed* – The Regulatory Committee discussed new initiatives that they could undertake beginning on July 1st, 2010 including:
    o Encouraging FCC Review of SDR Rules
    o Proposing an ITU-R agenda item for WRC-2016 for additional spectrum to support broadband
    o Submitting Ex Parte filings to FCC in Wireless Innovation proceeding on the Forum's new name and strategy, the recently approved Public Safety SIG Cognitive Use Case Report, the Baseband Processor Report, The Security WG Paper (when completed) and the Cognitive Radio Quantification report (when completed)
    o Supporting the organization of a TVWS Workshop to be held in conjunction with the September meeting in Schaumberg
    o Organizing a Regulatory Workshop to be held in conjunction with SDR'10
    o Issuing an RFP and selecting an outside regulatory counsel

    The Committee will mature these ideas in support of the FY2011 operations plan, and continue to issue regulatory advisories as events unfold.

Committee on Next Generation Radio Technology Meeting Minutes

- *"Business Models for Open Source Air Interfaces" matured* – The Commercial Baseband Processing Technologies Workgroup (CBPT-WG) developed the outline for this report, creating a document template and soliciting topic owners for each section. Work then began on an initial draft to be reviewed during the June General Meeting.
- *Implementation of Smart Antenna extension to Transceiver Facility Specification presented* – Representatives from Hanyang University presented extensions to the Forum's Smart Antenna standard that would bring it into alignment with the transceiver facility specification to the Transceiver Facility Work Group. An implementation of these extensions where created in about 1 month successfully validating transmit and receive behaviours
- *Transceiver "Plug Fest" Planned* – The Transceiver Facility Work Group began developing a project proposal for a 2 day "plug fest" highlighting the use of the transceiver facility specification to simplify porting of waveforms between platforms. This concept will be matured over the next two months to be finalized at the June General Meeting.
- *"Security Requirements for SDR Radios" specification completed* – The Security Work Group (Security WG) completed technical work on this document and began the process of advancing it to work group ballot. Following this, the

group discussed plans to restart the public safety project, which has been on hold
pending revision of this requirements specification.

- *"Security Functional Requirements for Application Programming Interfaces"*
  document reviewed – Will Scott, representing General Dynamics, presented this
  document which is currently in work group ballot
- *Joint meeting with Security Work Group and P1900.5 held* – During this
  meeting, the Security Work Group presented its architecture and requirements and
  discussed their potential impact on P1900.5 standards

Committee on Advanced Wireless Networking and Infrastructure Meeting Minutes

- *"Test Guidelines for Secondary Spectrum Access" matured* – The document was
  reviewed by the Test and Measurement Work Group for new members, and the
  project dashboard was updated. Discussions were also held on organizing the TV
  White Space Workshop, scheduled for the September General Meeting.
- *Modeling Language for Mobility (MLM) ontology matured* – The Ontology
  document was reviewed by the MLM work group, and a discussion was held on
  inserting the Forum's transceiver facility into the Ontology with representative of
  the Transceiver Facility Work Group. Updates were made to the ontology to
  supporting the Transceiver Facility's burst and signal elements. The initial
  version of the ontology is expected to be completed in the April time frame to
  allow for a Plenary vote at the June General Meeting.
- *Joint meeting between MLM and P1900.5 held* – Through this meeting, areas of
  collaboration were identified, and P1900.5 took an action item to investigate how
  to incorporate the Forum's Ontology into their language requirements
- *"Cognitive Radio Database" project started* – The Cognitive Radio Work Group
  began their work on this project by reviewing the approved project proposal,
  discussing preferred outcomes, setting up the document structure, and listing
  potential radio environment map use cases.

Coordinating Committee on International SCA Standards Meeting Minutes

- *Draft charter, policy and procedures document developed* – This charter
  establishes the group's mission, defines the Steering Group which will drive the
  committee roadmap and interactions with outside authorities, defines the working
  policies and procedures for the committee and its work groups, and establishes an
  advisory council promoting interaction with key government stakeholders. The
  charter will be distributed to various groups for comment, with the goal of having
  put forward for committee ballot to be finalized by the June meeting.
- *Test and Evaluation Work Group project re-vectored* – The approved project of
  the Test and Evaluation Work Group is to profile the SCA 2.2.2 Operating

Environment requirements against the requirements of various target markets to determine what SCA parameters need testing in each market. During the meeting the members of the work group agreed to postpone work on this project and instead develop implementation practices for the processes defined in the Certification Guide Part 1 document, to include considerations on tool suite and business models. A new project proposal will be created and work will begin on this project in advance of the June meeting.

- ***Request for Comments developed for the "SCA Next" effort*** – Work completed on the Forum's response to Change Proposal S047 "Develop CORBA/e and CORBA Services wording", and the SCA Next Task Group members crafted a request for comment to be submitted to the JTRS SCA Next Working Panel. This document will be balloted at the committee level following this General Meeting. In addition, the SCA Interpretation Guide Work Group began developing a separate request for comment based on 12 specification topics that they had identified as needing clarification. Work on this request for comment should be completed shortly after the General Meeting and will be balloted at that time.

Roadmap Committee Minutes

- ***Inaugural meeting held*** – The first meeting of the Forum's new Roadmap Committee was held 8 March 2010. During the meeting, the Committee agreed to establish a portal for hosting their work, and set work plans for defining the Forum's "Top 10 Most Wanted Wireless Innovations".

Other Highlights of the 65th General Meeting

Keynote addresses to joint session of the JSTeF and WINNF – Addresses were received from three keynote speakers:
  - Howard Pace, *Deputy Joint Program Executive Officer Joint Tactical Radio System*
  - Rear Admiral Hamby, *Vice Director for C4 Systems (J6), US Joint Chiefs of Staff*
  - Rear Admiral Bachmann, *Commander, Space and Naval Warfare Systems Command*

Spectrum Interface Standard Effort – John Irza, representing The MathWorks, presented on behalf of Forum Members Pentek and DRS to joint session of the Cognitive Radio and Transceiver Work Groups on plans to form a new standard. An exploratory meeting for this standard will be held by DRS on April 7th and 8th at their facility in Gaithersburg, Maryland.

Regional reports were also presented from representatives from ITU regions 1, 2, and 3 as well as liaison reports on relevant activities from representatives of IEEE SCC41, ETSI and the E3 Program during Plenary Session on Wednesday, 10 March 2010.

Closing Plenary – Wednesday, 10 March 2010

The meeting was recalled to order at 15:30 hours by Mr. Bruce Oberlies. Mr. Oberlies asked if a quorum was present, and this was confirmed by the Forum's CEO. Mr. Oberlies then asked to waive reading and approval of the minutes of the previous meeting. Eric Christensen, representing General Dynamics, so moved and Paul Kolodzy, representing Kolodzy consulting seconded the motion. Mr. Oberlies asked if there was any discussion and hearing none, called the question. The motion was approved by unanimous consent.

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

New Membership Renewal Process and Changes in the Portal Structure – These items were presented by Mr. Lee Pucker, and a question and answer session was held.

Close of the 65th General Meeting – Following presentation on the membership renewal process, Mr. Oberlies asked if there was any new business. Hearing none, he adjourned the meeting at 17:00 hours.