Minutes of the 71st General Meeting of the Wireless Innovation Forum
12 to 14 March 2012

The 71st General Meeting of The Wireless Innovation Forum (SDR Forum version 2.0) was held March 12 to 14, 2012 in San Diego, California. This document provides the minutes of that Forum's meeting.

The drop box for this meeting can be found at:
http://groups.winnforum.org/p/do/si/topic=485

The drop box is accessible to Forum members only.

The feedback form for this meeting can be found at (feedback is still welcome):
http://www.zoomerang.com/Survey/WEB22F37LPFN2B

Opening Plenary: Monday, 12 March 2012
The meeting was called to order at 12:15 PM by the Chair of the Forum, Mr. Bruce Oberlies. Meeting announcements were made, followed by a review of the agenda for the 71st General Meeting. Adjustments were made based on feedback received, and then Mr. Oberlies recessed the Plenary until Wednesday at 14:30. The meeting was adjourned at 13:00.

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 (URC) Meeting Minutes

- *Organization Begun for Joint URC/Regulatory Workshop to be held at SDR-WInnComm* – Mr. Manuel Uhm, representing Coherent Logix, chair a Joint SIG meeting that explored topics for a joint URC/Regulatory workshop to be held January 8 to 10 at SDR-WInnComm in Washington DC. Topics proposed included Applications and Opportunities for LTE in Commercial, Civil and Defense communications, Looking Beyond LTE, and Mobile Broadcast in White Space. A follow up meeting was planned for the week of March 26th.

- *Report on "Business Models of the SDR Tactical Radio Market" matured* – the ITR-SIG, Chaired by Mr. David Renaudeau, representing Thales, continued developing their report exploring "Business Models of the International Tactical

Radio Market". They plan to complete work on this project by the next general meeting. The group also finalized plans for a tactical radio workshop to be held in conjunction with the SDR'12-WInnComm-Europe conference on June 28ᵗʰ in Brussels.

- ***"Cognitive Radio Technologies for Public Safety" assessment revised*** - The Public Safety Special Interest Group, chaired by Mr. Fred Frantz representing L3 Communications, decided to split their technology assessment into two volumes, with the first volume focusing on those issues that are relevant to the US Nationwide Public Safety Broadband Network as authorized in HR3630. The group worked to simplify their outline, and identified some additional sources of information.

Technical Committee on Software Defined Radio (TC-SDR) Meeting Minutes

- ***Call for Contributions Completed for "Open Source Framework for Commercial Baseband Software"*** - the Commercial Baseband Processing Work Group, Chaired by Mr. Daniel Iancu representing Optimum Semiconductor Technologies, completed work on their call for contributions and initiated system level LTE-Advanced Mathematica coding. Work on the latter included an RRC filter and a Kalman predictor for channel estimation. Follow on work will be completed during a bi-weekly teleconference to include block coding and IP determination. The group also agreed to return to the Project Approval Committee with a reduced scope plan for their report on "Business Models for Open Source Air Interface Software".

- ***Security Work Group projects reviewed*** – William Scott, representing GD C4S, led the Security Work Group in a review of the "Security Requirements for Software Reconfigurable Communications Devices" project. Following the review, the group worked towards completion of a draft set and issued a request for reviewers. The International Security Services APIapecification was also reviewed, including a review of the structure of the document, the critical portions of the API, the sample Concept of Operation used to validate the API, and the ancestor document (CICM)

- ***New project defined by the Transceiver Facility Specification Work Group*** – The Transceiver Facility Specification Work Group, Chaired by Eric Nicolet representing Thales, developed a new project proposal for an "Open Source Tranceiver Facility Implementation for Fast Prototyping". The group discussed licensing models and source code management for this project, with a goal of completing the project proposal by 15 April and kicking off the project in May.

Technical Committee on Cognitive Radio and Dynamic Spectrum Access (TC-CR/DSA) Meeting Minutes

- *Committee Organization Introduced* - The TC-CR/DSA, chaired by James Neel, representing Cognitive Radio Technologies and Nesl Mellen, representing TDK, held a plenary session where they reviewed the new committee's organization, the project interests expressed by member organizations, and candidate liaisons with external groups. Project ideas explored by the committee included:
  - Test and Measurement for Cognitive Radios
  - DSA State of the Art Survey
  - Impact of receiver standards on DSA/CR performance

- "*Information Processing Architecture (IPA)" survey document revised* – The Cognitive Radio Work Group, Chaired by James Neel representing Cognitive Radio Technologies Inc., completed revising the IPA surveydocument introduction and wrote most of the conclusions/summary section.

- *"Use Cases for DSA Policy Language" matured* - Mitch Kokar, representing Vistology, led the Modeling Language for Mobility work group, working in collaboration with IEEE P1900.5, in developing descriptions of sequences of events for DSA for Mode 1 and Mode 2 devices for this report. The group also discussed requirements for the policy language for use cases that cannot be easily solved by traditional procedural languages but can be solved by a decalrative language plus ontology.

Coordinating Committee on International SCA Standards Meeting Minutes

- *New Project Proposed for SCA API Work Group* - The SCA API Work Group, chaired by Terry Anderson, representing ITT Exelis, explored new proposals for development in 5 new project areas. The group agreed to initiate a project on "API Specification Enhancement" and began drafting the associated project proposal.

- *New Project Proposed for SCA Next Work Group* - The SCA API Work Group, chaired by Terry Anderson, representing ITT Exelis, explored new proposals for development in 8 project areas. The group agreed to initiate a project on "PSMs for Additional Transfer Mechanisms (non-CORBA)" and began drafting the project proposal. The group also discussed pursuing 3 closely related projects simultaneously:

  - Zero copy data transfer, championed by Jerry Bickle, representing Raytheon
  - Alternate IOP, championed by OIS and Prismtech
  - C++ (candidate champion not present)

- ***Potential new projects identified by SCA Implementers Work Group*** - The SCA Implementers Work Group, chaired by Steve Bernier, representing CRC, identified 8 potential new projects:

  o Implementers/UsersGuide
  o Waveform Application Portability Guidelines
  o User Guide for International Radio SecurityServices API specification
  o SCA 2.2.2 to SCA Next Migration Guide
  o Differences between SCA 2.2.2 and SCA Next
  o Profiling Guide
  o Formal Profiles
  o Ecosystem if SCA widgets (open source and/or COTS)

  Project champions for 2 projects: Steve Bernier agreed to champion the Implementers Guide Project, and Alberto Qintana representing Indra Sistemas agreedto champion the Waveform Application Portability Guidelines. The champions agreed to create and share draft project proposals to be reviewed via conference calls.

- ***"SCA Test and Certification Guide, Volume 2" matured*** - The SCA Test and Certification Work Group, led by Ken Dingman representing Harris Corporation, completed reviewof the final inputs to the document, including the addition of Use Case #5 and updates throughout the document supplied by work group members. The group also began to brainstorm on potential projects to undertake upon completion of the current document.

Roadmap Committee

- ***Changes announced in Roadmap Development Process*** – John Glossner, representing Optimum Semiconductor, announced changes in the process for developing the "Top 10 Most Wanted Wireless Innovations" list each quarter:

  o Each committee will maintain their own roadmaps, which will be updated during the committee plenary at each face to face meeting
  o The roadmap committee will be held the morning of the last day of all face to face meeting, where potential additions and subtractions to the list will be discussed.
  o The revised list will be balloted at the plenary of the next face to face meeting
  o The website will be reorganized around the top 10 to include a roadmap page highlighting achievements, current work and related third party projects.

- ***Potential changes to the "Top 10 Most Wanted Wireless Innovations" list explored*** - John Glossnr led a brainstorming session on changes to the existing Top 10 list:

  o Combining common topics

- o Valuation of unlicensed spectrum
- o Regulators loading policies into cognitive radios
- o Cost effective testing of mobile adhoc and cognitive radios
- o Air inteface software available under free or FRAND terms
- o Business models for TVWS
- o Removal of high performance power efficient GPP

Closing Plenary – Wednesday, 14 March 2012

The meeting was recalled to order at 14:30 hours by Mr. Bruce Oberlies. A check of the role and received proxies indicated that a quorum was not present, and so the meeting proceeded without conducting any primary business.

Regional Reports – A report on activities in ITU Region 1 was presented by Mr. Oberlies on behalf of Mr. David Renaudeau, representing Thales. Mr. Terry Anderson, representing ITT Exelis presented the regional. An update report from Region 3 was not provided.

Update on WRC-12 – Paul Kolodzy, representing Kolodzy consulting presented an out brief on the recently completed World Radio Communications Conference.

Liaison Reports – Updates were provided by representatives of the four of the Forum's strategic partners:

- ETSI TC RRS, Presented my Andrea Lorelli
- DySPAN Standards Committee, presented by Hiroshi Harada
- JTRS Technology Transition Forum, Presented by CDR Andrew Kessler
- IEICE TCSR, Presented by Yukitoshi Sanada

Committee Out Briefs – Out briefs were given on the outcomes of the San Diego meeting by the chairs of the Committee on SDR, the Committee on CR/DSA, the Coordinating Committee on International SCA Standards, the Roadmap Committee, the User Requirements Committee, and the Roadmap Committee.

Member Opportunities Presented – Mr. Lee Pucker, CEO of the Wireless Innovation Forum, presented member opportunities for the next quarter.

Close of the 71st General Meeting – Mr. Oberlies called for any other business. Hearing none, he adjourned the meeting at 17:00 hours.