

Minutes of the 78th General Meeting of the Wireless Innovation Forum 23 to 27 March, 2015

The 78th General Meeting of The Wireless Innovation Forum (SDR Forum version 2.0) was held 23 to 27 March, 2015 at CALIT2 in San Diego, California in conjunction with WINnComm 2015. This document provides the minutes of that meeting.

The agenda for this meeting can be found at:

<http://groups.winnforum.org/page/march-2015-technical-exchange-meetings>

Opening Plenary: Tuesday, 23 March 2015

The meeting was called to order at 08:00 AM by the Chair of the Forum, Mr. Bruce Oberlies during the WINnComm opening plenary. Meeting announcements were made, and following this, the agenda for the 78th General Meeting was reviewed and adjustments were made based on feedback received. The meeting was recessed at 08:30.

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/projects-committees>

Committee on Spectrum Innovation (CSI) Meeting Minutes

- ***Updated “Top 10 Most Wanted Wireless Innovations” approved for ballot.*** The Forum initiated a revision project for the Top 10 list late in CY 2014, and work completed in February. This 4th release of the Forum’s popular list brings numerous updates to previous most wanted innovation and adds “Network Management of Mobile Ad-hoc Radios” as a new most wanted technology. CSI The Steering Group approved promoting this revised during their meeting in San Diego.
- ***“Integrated Communication Systems Model” project approved.*** Also in San Diego, the CSI Steering Group approved a revised proposal for a project to develop a new system model. This model is being created for developers of SDR communications systems across multiple market and government segments who require the development of integrated systems models that encompass both hardware and software architectures within a single integrated design paradigm. The project will produce a reference architecture and design model describing SDR-based communications systems which, unlike predominantly software-focused design and implementations, will provide an integrated systems model for communications systems that can be used as a foundation for software-based communications systems across a variety of domains, hardware types and applications. This model will be

- developed using a SysML/UML tool to represent and capture the architecture aspects of the communications system model.
- **“Context Aware Cognitive Radio” project matured.** The Cognitive Radio Work Group, chaired by James Neel of Cognitive Radio Technologies, continued work on their project which is being undertaken for researchers and developers of complex information systems with intelligent automated behaviour who need to incorporate diverse and varying information sources into their automated decision processes, represent the current state of their systems, consider how to expand and enhance them from a process perspective, and analyze opportunities to interact with other systems with similar, but independently developed and evolved characteristics. The project will provide structural models, tools, and processes for analyzing, designing, and deploying contextually aware complex systems that will aid in defining, designing and selecting Cognitive Radio processes relevant and useful to Information System stakeholders and facilitate an improved understanding of the structure, meaning, and relationships between Information Systems that span operational domains to enable or improve communications across their systems. During the meeting an annotated outline for the main report was prepared, individual writing assignments were made, and group publications on the topic were reviewed.
 - **Draft report on Receiver Performance Guidelines and Evaluation Criteria reviewed.** The Receiver Performance Work Group, chaired by Bruce Mueller of Motorola Solutions, reviewed the current status of their report which being developed for regulators, designers, manufacturers and users of wireless communications systems who are developing wireless policy and equipment to access shared spectrum or to coexist with adjacent spectrum uses while understanding impact to current spectrum users. The report will produce a set of actionable guidelines to design and evaluate the performance of receivers that will coexist in shared & adjacent spectrum bands that can be used as a foundation for future radio systems. The concepts associated with the P1900.5 Spectrum Consumption Models was also reviewed during this meeting.

Coordinating Committee on International SCA Standards Meeting Minutes

- **“Transceiver Next” standard matured.** The Transceiver Next Task Group, led by Eric Nicollet of Thales, continued work on the Transceiver Next project. This project is being undertaken for the international community of SDR products developers who are seeking an openly available, free to access and free to use internationally elaborated standard API for portable SDR Applications and multi-application Transceivers. The project will produce an updated release of WINNF Transceiver Facility originally published in 2009, and will improve the content based on years of implementation experience. The project will also expand the addressed applications to extend the applicability of the standard to include test and measurement, dynamic spectrum allocation, and sensing. During this meeting, the group began work on

standardized IDL, integrating changes derived from implementation experiences, identified overlap between MOCB and this specification, and revised schedule objectives.

- **“SCA Test Lab” report matured.** The SCA Test and Evaluation Work Group, led by James Ezick of Reservoir Labs, continued work on this document, which is being developed for those interested in understanding the finer details of establishing an SCA Test Lab, including understanding it’s business market posture, it’s unique and finicky customers, and the test processes that are contained in a Test Lab specializing in testing SCA based SDRs in order to evaluate whether they should establish their own SCA test lab or contract their test requirements to a third party. The document was 90% complete at the conclusion of this meeting, and the group plans to initiate ballot of the document in April

Closing Plenary – Thursday, 26 March 2015

The meeting was recalled to order at 17:30 hours by Mr. Bruce Oberlies. A check of the role and received proxies indicated that a quorum was present.

Minutes of the Previous Meeting. Claude Belisle, representing NordiaSoft, moved to waive reading and approve the previous meetings’ minutes. Jimmie Marks, representing Raytheon, seconded. Bruce Oberlies asked for discussion and hearing none, called the question. The motion was approved unanimously.

Committee Out Briefs – Out briefs were given on the outcomes of the meeting

Close of the 78th General Meeting – Mr. Oberlies called for any other business. Hearing none, he asked for a motion to adjourn. Claude Belisle so moved, and James Neel representing Cognitive Radio Technologies seconded. Mr. Oberlies ended the meeting at 18:00.