



Minutes of the SDR Forum 62nd General Meeting 20 to 22 April 2009

The 62nd General Meeting of The SDR Forum was held April 20 to 22, 2009 in Madrid, Spain. The meeting was sponsored by Indra Sistemas, and preceded the first annual European Reconfigurable Radio Technologies Workshop. This document provides the minutes of the general meeting.

The drop box for the meeting can be found at:
http://www.sdrforum.org/pages/madrid_09_dropbox/

The drop box for the workshop can be found at:
www.sdrforum.org/pages/madrid_09_ERRT_dropbox

Please send an email to info@sdrforum.org to get the drop box password.

The feedback form for the meeting can be found at (feedback is still welcome):
<http://www.zoomerang.com/Survey/?p=WEB2293BNZATL8>

The feedback form for the workshop can be found at (feedback is still welcome):
<http://www.zoomerang.com/Survey/?p=WEB2294LVV3YUJ>

Opening Plenary: Monday 20 April 2009

The meeting was called to order at 12:30 PM by the Vice Chair of the SDR Forum, Dr. Ruediger Leschhorn. Attendance was checked with the COO and it was determined that a quorum was not present, but was expected by the closing plenary based on registrations.

Dr. Leschhorn read the IPR and controlled information policy statements and then presented two documents that had completed work group and committee ballot and would be put up for final ballot on Wednesday morning at the closing plenary:

- Document SDRF-08-P-0007-V0.6.0 entitled “Test and Certification Guide for SDRs based on SCA – Part 1:SCA”
- Document SDRF-09-P-0001-V0.6.0 entitled “Public Safety Radio System Cost Model”

Dr. Leschhorn then initiated a review of the agenda for the 62nd General Meeting and adjustments were made based on feedback received.

Dr. Leschhorn then asked if there was any new business and hearing none, adjourned the plenary until Wednesday at 08:30. The meeting was adjourned at 13:45.



Key Accomplishments in Madrid

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

<http://www.sdrforum.org/pages/aboutTheForum/currentProjects.asp>

Markets Committee

- ***Input to the Regulatory Committee*** – The Markets Committee held a joint meeting of the SIGs to explore items of common interest. During this meeting, the SIG chairs agreed to provide a list of “regulatory concerns” in each of their respective market domains to the Markets Committee chair by May 8th. The lists will be collated and then forwarded to the regulatory committee for follow up.
- ***“Issues in the International Tactical Radio Market Domain” matured*** – The International Tactical Radio Special Interest Group discussed input contributions related to this document, and set their work plan through the June meeting. They also explored adding a new topic, the impact of safety certification on airborne SDRs, and agreed to collaborate with civil aviation authorities to create new rules and procedures (beyond AC 20-148) to safety certify HW or SW
- ***History of the Public Safety Special Interest Group reviewed*** – The history of the PS-SIG was reviewed to bring prospective members up to speed on accomplishments to date. An overview of the Chemical Plan Scenario document was also provided. Further work was deferred until the week of May 4th.
- ***Two new projects discussed by the SATCOM SIG:***
 - A market study evaluating market trends and directions as they relate to users of Satellite communications, illustrating areas where current SATCOM systems fail to meet user needs and expectations, identifying user expectations for advanced SATCOM systems, and identifying market needs that can be uniquely addressed by employment (use) of SDR and CR technology.
 - A white paper evaluating the use of SDR and CR technology in WiMax terminals, allowing them to sense and avoid spectral interference with SATCOM terminals and base station, facilitating shared use of C-Band spectrum in a non-interference basis.

The SATCOM SIG also moved forward their plans for a workshop at SDR 09, to include a half day tutorial followed by a full day session focused on SATCOM SDR and CR related topics.

Regulatory Committee

The Regulatory Committee did not meet in Madrid.



Technical Committee

- ***Ambiguities in SCA version 2.2.2 identified*** – The SCA Interpretation Guide task group reached consensus on a number of ambiguities identified in the SCA. They posted solutions to these ambiguities as identified and then began evaluating new ambiguities.
- ***SCA Test and Evaluation Task Group to initiate new project to create a certification report interpretation guide*** – inaugural meeting for this new project to be held during the 63rd General Meeting of the SDR Forum in Dearborn, Michigan
- ***Comparison made between SDR Forum XCVR API and MHAL RF Chain Coordinator performed*** – this comparison was made in a joint meeting between the SCA API Task group and the Transceiver Facility Specification Task Group
- ***SCA API Work Reprioritized to include support for power management***
- New features identified for the SDR Forum Transceiver Facility – including
 - 5 Key Open questions
 - 2 Potential follow-up perspectives
 - 3 key missing mechanisms to be added by a v2
 - 12 specific points of improvements to be fixed by a v2
 - 4 points to consider in a rationale document
 - 1 specific point on WiMAX assumptions

These items will be addressed in a planned version 2.0 release, the project proposal for which will be completed by the next General Meeting

- ***“Cognitive Radio DataBase (CRDB) – a Radio Environment Map (REM) anticipating future CR needs”*** – the proposal for this new project was completed during the Madrid meeting by the Cognitive Radio Work Group, with the project subsequently presented to and approved by the Project Approval Committee. Work on this project is scheduled to begin in June.
- ***Information Process Architecture project proposed*** – the concept of an “information process architecture” with an example from the public safety use case on the Chemical Plant Disaster was presented by Jim Rodenkirch, representing DTI, to a joint meeting of the Cognitive Radio Work Group and the Public Safety Special Interest Group. The groups agreed to create a proposal for a project maturing the concepts presented.
- ***Joint meeting of the Secondary Spectrum Access Test Group, the Test and Measurement Work Group, and the Cognitive Radio Workgroup held*** – this joint meeting explored the future of test projects in each of these groups and agreed to meet on May 11th to discuss combining the projects into a single activity.
- ***Vince Kovarik of Harris Corporation to serve as the co-chair for the Modeling Language for Mobility Work Group***



Closing Plenary – Wednesday, 22 April 2009 (Members Only)

The meeting was recalled to order at 08:30 hours by Dr. Ruediger Leschhorn. Attendance was checked with the COO and it was determined that, with proxies, a quorum was present. Proxies were held by Dr. John Chapin, Chair of the SDR Forum, for the following organizations who were not in attendance:

- Aeronix
- Boeing
- Booz Allen Hamilton
- Harris Corporation
- Hypres
- Kolodzy Consulting
- L3 Communications
- Motorola
- NPSTC
- Objective Interface
- SCA Technica
- Shared Spectrum Company
- Xilinx

Minutes – Dr. Leschhorn asked for a motion to waive reading of the minutes. The motion was made by Eric Christensen, representing General Dynamics, and seconded by Pekka Heikkinen, representing Elektrobit. Dr. Leschhorn asked for discussion and hearing none called the question. The motion passed by unanimous consent. Dr. Leschhorn then called for a motion to approve the minutes. The motion was made by Bob Schutz, representing ViaSAT, and was seconded by John Chapin, representing Vanu. Dr. Leschhorn asked for discussion and hearing none called the question. The motion passed by unanimous consent.

Ballots – Dr. Leschhorn then initiated the plenary ballot on the two documents presented at the open plenary on Monday:

- Document SDRF-09-P-0001-V0.6.0 entitled “Public Safety Radio System Cost Model”. Dr. Leschhorn asked for a motion to approve the document, and the motion was made by John Chapin, representing Vanu, and seconded by Jim Rodenkirch, representing Diversified Technology. Dr. Leschhorn asked for discussion and hearing none, called the question. The motion passed and the document was approved, with ST Microelectronics abstaining.
- Document SDRF-08-P-0007-V0.6.0 entitled “Test and Certification Guide for SDRs based on SCA – Part 1:SCA”. Dr. Leschhorn asked for a motion to approve the document, and the motion was made by Pekka Heikkinen, representing Elektrobit, and seconded by Marco D’Ambrosia, representing Selex Communications. Dr. Leschhorn asked for discussion and hearing none, called the



question. The motion passed and the document was approved, with ST Microelectronics abstaining.

Hands on group portal training – Training was provided by Mr. Al Margulies on The SDR Forum’s group portal. Additional training will be provided at each general meeting.

Out Briefs – Out briefs were given on the outcomes of the Madrid meeting by the chairs of the Technical Committee and the Markets Committee.

New Business – Prior to closing the plenary, Dr. Leschhorn asked if there was any new business. At this time Joe Mitola, representing the Stevens Institute, introduced a motion to “encourage the Technical Committee to consider forming a Technical Advisory Committee, similar to the Regulatory Advisory Committee, with representation from all three ITU regions”. John Chapin, representing Vanu, seconded the motion. Dr. Leschhorn asked for discussion and hearing none called the question. The motion passed by unanimous consent.

Close of the 62nd General Meeting – Dr. Leschhorn then asked for a motion to adjourn the meeting. The motion was made by Eric Christensen, representing General Dynamics, and seconded by Rick Taylor, representing Tyco Electronics. Dr. Leschhorn called the question and the motion passed by unanimous consent. The meeting was adjourned at 10:00 hours.

Open Plenary Session

Following the closing plenary, and open plenary was held where Regional reports were 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. A member opportunities briefing was also provided by Lee Pucker, CEO of the SDR Forum.