

Proposal for an IEEE 802 EC OmniRAN Study Group

15 November 2012

Harry Bims (HetNet Study Group Chair)

“OmniRAN” Terminology

- OMNI: “Open Mobile Network Interface”
- IEEE “Area Networks”, such as:
 - LAN: Local Area Network
 - MAN: Metropolitan Area Network
 - PAN: Personal Area Network
 - RAN: Regional Area Network
 - etc.
- OmniRAN:
 - “Omni-Range Area Network”, based on OMNI

OmniRAN History

- Mar 16: IEEE 802 initiated 802.16 HetNet Study Group (SG)
- May 14-17: First HetNet SG session, resulting in
 - Call for Contributions on OMNI standard
- July 16: IEEE 802 OmniRAN Tutorial
- July 16-19: Second HetNet SG session
- July 20: HetNet SG renewal
- July 25: IEEE 802 / IETF coordination meeting (Milpitas)
- Sep 17-21: Third HetNet SG session
- Nov 12-15: Fourth HetNet SG session
 - Two contributions from non-participants expressing interest and need
 - “The use of OMNIRAN can open the door to the use of more IEEE 802 technologies as part of the operator’s RAN in a managed way” {“RAN”: radio access network}

July 16 OmniRAN Tutorial

- Audience: IEEE 802 Plenary, San Diego
- Title: Heterogeneous Networking among the IEEE 802 Family – Proposal for an Open Mobile Network Interface (OMNI) Standard
 - Roger Marks (Consensii LLC; 802.16 Member and Chair)
 - Harry Bims (Bims Laboratories, Inc.; 802.16 Member & HetNet SG Chair)
 - Max Riegel (Nokia Siemens Networks; 802.11 Member)
 - Charlie Perkins (Huawei; 802.21 Member)
 - Juan Carlos Zuniga (InterDigital; former 802.21 Vice Chair)
- Abstract: Proposals arising in the IEEE 802.16 Study Group on Heterogeneous Networks (HetNet Study Group) have suggested the development of a new IEEE 802 Open Mobile Network Interface (OMNI) standard to specify a common method of heterogeneous networking among all (or at least many) IEEE 802 access technologies for mobile broadband IP services. This tutorial highlights discussions within the Study Group and current plans, particularly in the context of related activities and specifications from other organizations, including IETF and the WiMAX Forum. The intent is to inform IEEE 802 participants about the current thoughts, directions and evolving plans, including considerations about the best home for eventual standardization work, and to encourage additional perspectives.

OmniRAN SG Schedule Expectations

- 2012-11-16: approval of EC SG
 - Issue call for contributions and external SDO communications
- 2013-01-14 through 2013-01-18: first EC SG meeting
 - Vancouver
- 2013-03-18 through 2013-03-22: second EC SG meeting
 - Orlando
 - Presentation to IETF groups at meeting the prior week
 - Expectation for SG renewal request
- 2013-05-13 through 2013-05-17: third EC SG meeting
 - Waikoloa
 - PAR drafting and preparation for submission to EC
- 2013-07-15 through 2013-07-19: fourth EC SG meeting
 - Geneva
 - Expectation of EC approval of draft PAR

Call for Contributions Content

- On 15 November 2012, the IEEE 802 Executive Committee chartered the OmniRAN Executive Committee Study Group (SG) to study an Open Mobile Network Interface for Omni-Range Area Networks. The SG is chartered through 22 March 2013, with an expectation of renewal through 19 July 2013. The will meet the week of 14 January 2013 in Vancouver, Canada and the week of 18 March in Orlando, USA.
- Further details are available in documentation at the SG web site <link>.
- The SG hereby solicits input documentation to progress the development of the work. The Study Group particularly seeks inputs on the following topics:
 - (1) OmniRAN use cases.
 - (2) Proposals regarding the OmniRAN architecture as it might be developed within IEEE 802.
 - (3) Proposals regarding the specific functionality to be provided by the OmniRAN, with prioritization expectations for the first project.
- Instructions for document submission

Initial External SDO Communications Content

- To: IETF, 3GPP, Broadband Forum, CableLabs, WiMAX Forum, Wi-Fi Alliance, Wireless Broadband Alliance, and others as appropriate
- Content:
 - Notification of the initiation of the new SG
 - Call attention to EC SG document created from IEEE 802.16-12-0670R1
 - Call attention to the Call for Contributions

IEEE 802 EC Motion

- To initiate the IEEE 802 EC OmniRAN Study Group, with Max Riegel as Chair
- Motion: Marks
- Second: