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06 December 2006

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Re: P1900.4 - Architectural building blocks enabling network-device distributed decision making for optimized radio resource usage in heterogeneous wireless access networks

Dear Alexander:

I am pleased to inform you that on 06 December 2006 the IEEE-SA Standards Board approved the above referenced project until 06 December 2010. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1900-4.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at s.hampton@ieee.org no later than 06 March 2007.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Specifically for entity projects, please be aware that baseline entity sponsor procedures (<http://standards.ieee.org/corpforum/cag/sponsor.html>) and entity working group procedures (<http://standards.ieee.org/corpforum/cag/wgproc.html>) are available for your use. Guides to the policies and procedures of entity standardization can be found at <http://standards.ieee.org/corpforum/participation/corpstdspandp.html>.

You should also be aware that anyone who wishes to earn and maintain voting rights in an entity

working group must pay an annual entity project participation fee. An initial roster of contacts who have indicated an interest in becoming a voting member of the working group and who therefore should be invoiced for this fee shall be submitted to Lauren Wright – Administrator, Business Development via email at l.wright@ieee.org no later than two weeks from the date of this letter.

If you have any questions about the rules of entity project development, please contact Mary Lynne Nielsen at m.nielsen@ieee.org.

Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at +1 732 562 6003 or by email at s.hampton@ieee.org.

Sincerely,

Sherry Hampton
Administrator, Governance
Standards Activities
Phone +1 732 562 6003
FAX +1 732 875 0695
Email: s.hampton@ieee.org

CC: stephen.berger@ieee.org, ehare@arrl.org, Soodesh.Buljore@motorola.com

PAR Request Date: 16 October 2006**PAR Approval Date:** 06 December 2006**PAR Signature Page on File:** Yes**Type of PAR:** New IEEE Standard**Status:** PAR for a New IEEE Standard**Root Project:****1.1 Project No.:** **P1900.4****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Architectural building blocks enabling network-device distributed decision making for optimized radio resource usage in heterogeneous wireless access networks

2.1 Amendment/Corrigenda Title**3.1 Working Group Name** [Architecture and Enablers for Optimised Radio & Spectrum resource usage](#)**Working Group Chair**
[Buljore, Soodesh](#)
Phone: +33169352566
Email: Soodesh.Buljore@motorola.com**Working Group Vice Chair****3.2 Sponsor** [IEEE Communications Society Standards Committee \(COM/SC\)](#)**Sponsor Chair**
[Gelman, Alexander D](#)
Phone: 609-734-7345
Email: adg@ieee.org**Name of Standards Liaison Representative (if applicable)**
[Gelman, Alexander D](#)
Phone: 609-734-7345
Email: adg@ieee.org**3.3 Joint Sponsor**
[IEEE Electromagnetic Compatibility Society Standards Development Committee \(EMC/SDCom\)](#)
[Berger, Stephen](#)
Phone: 512-864-3365
Email: stephen.berger@ieee.org**4.1 Type of Ballot:** Entity**4.2 Expected Date of Submission for Initial Sponsor Ballot:** July 2008**4.3 Projected Completion Date for Submittal to RevCom:** February 2009**5.1 Approximate number of people expected to work on this project:** 20**5.2 Scope:** The standard defines the building blocks comprising i) network resource managers, ii) device resource managers and iii) the information to be exchanged between the building blocks, for enabling coordinated network-device distributed decision making which will aid in the optimization of radio resource usage, including spectrum access control, in heterogeneous wireless access networks. The standard is limited to the architectural and functional definitions at a first stage. The corresponding protocols definition related to the information exchange will be addressed at a later stage.

5.3 Is the completion of this document contingent upon the completion of another document? No

5.4 Purpose: The purpose is to improve overall composite capacity and quality of service of wireless systems in a multiple Radio Access Technologies (RATs) environment, by defining an appropriate system architecture and protocols which will facilitate the optimization of radio resource usage, in particular, by exploiting information exchanged between network and mobile Terminals, whether or not they support multiple simultaneous links and dynamic spectrum access.

5.5 Need for the Project: Multimode reconfigurable devices are increasingly being adopted within the wireless industry. The choice among various supported air interfaces on a single wireless device is already a reality today, with devices offering, for example, 2nd, 3rd generation cellular radio access technologies and 802 wireless standards. Last but not least, devices and networks with dynamic spectrum access capabilities allowing the use of spectrum resource simultaneously among different systems are emerging and will be part of the radio eco-space. There is a need to define a standard addressing the overall system architecture and information exchange between the network and devices which will allow the devices to optimally choose among the available radio resources and simultaneously use several of these resources such that the overall efficiency and capacity of the resulting composite network is improved.

5.6 Stakeholders for the Standard: Stakeholders include wireless devices end users, regulators, operators and manufacturers. The improvements targeted in this standard will lead to the optimum exploitation of radio eco-space, for all the stakeholders, in order to obtain required QoS /throughput /latency at minimum cost and assurance of access any-time, any-where.

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes **Presented Date:** 2006-09-05

If no, please explain:

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No

If yes, please explain:

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No

If yes, please explain:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

7.2 Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? ? Do not know at this time

Technical Committee Name and Number:

Contact person:

Contact person Phone Number:

Contact person Email Address:

7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

7.4 Additional Explanatory Notes:

WG proposed Item 3.1 Working Group Chair Soodesh Buljore, PhD Phone: +33 1 69 35 25 66 Email: Soodesh.buljore@motorola.com Working Group Vice Chair Patricia Martigne Phone: +33 4 76 76 44 03 Email: patricia.martigne@orange-ft.com

8.1 Sponsor Information:

Is the Scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain: