

P1900.4a

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Type of Project: Amendment to IEEE Standard

PAR Request Date: 05-Feb-2009

PAR Approval Date: 19-Mar-2009

PAR Expiration Date: 31-Dec-2013

Status: PAR for an Amendment to an existing IEEE Standard 1900.4-2009

Project Record: 1900.4

1.1 Project Number: P1900.4a

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks - Amendment: Architecture and Interfaces for Dynamic Spectrum Access Networks in White Space Frequency Bands

3.1 Working Group: Architecture and Enablers for Optimised Radio & Spectrum resource usage (SASB/SCC41/P1900.4)

Contact Information for Working Group Chair

Name: Paul Houze

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE-SASB Coordinating Committees/SCC41 - Dynamic Spectrum Access Networks (SASB/SCC41)

Contact Information for Sponsor Chair

Name: Hiroshi Harada

Email Address: harada@nict.go.jp

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Entity

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 02/2011

4.3 Projected Completion Date for Submittal to RevCom: 09/2011

5.1 Approximate number of entities expected to be actively involved in the development of this project: 20

5.2 Scope: This standard amends the IEEE 1900.4 standard to enable mobile wireless access service in white space frequency bands without any limitation on used radio interface (physical and media access control layers, carrier frequency, etc) by defining additional components of the IEEE 1900.4 system.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This standard facilitates cost-effective and multi-vendor production of wireless access system, including cognitive base stations and terminals, capable of operation in white space frequency bands without any limitation on used radio interface, as well as, accelerates commercialization of this system to improve spectrum usage.

5.5 Need for the Project: Wireless access network, including cognitive base stations and terminals, is capable of providing cost-efficient service in white space frequency bands. To enable such network, the proposed standard defines new components (entity(s) and interfaces) in addition to IEEE 1900.4 entities and interfaces.

5.6 Stakeholders for the Standard: Stakeholders include wireless devices end users, regulators, operators and manufacturers.

Intellectual Property

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

If yes, state date: 15-Jan-2009

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

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

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

7.2 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: Do Not Know

Organization:

Technical Committee Name:

Technical Committee Number:

Contact Name:

Phone:

Email:

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

8.1 Additional Explanatory Notes (Item Number and Explanation):