

# P1900.5

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**Type of Project:** Modify Existing Approved PAR

**PAR Request Date:** 12-Sep-2011

**PAR Approval Date:** 09-Nov-2011

**PAR Expiration Date:** 31-Dec-2012

**Status:** Modification to a Previously Approved PAR

**Root PAR:** P1900.5 **Approved on:** 27-Mar-2008

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**1.1 Project Number:** P1900.5

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard Policy Language Requirements and System Architectures for Dynamic Spectrum Access Systems

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**3.1 Working Group:** Policy Language and Architectures for Managing Cognitive Radio for Dynamic Spectrum Access Applications (COM/SC/DYSPAN-P1900.5)

**Contact Information for Working Group Chair**

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**3.2 Sponsoring Society and Committee:** IEEE Communications Society/Standards Committee (COM/SC)

**Contact Information for Sponsor Chair**

**Name:** Curtis Siller

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None

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 10/2011

**4.3 Projected Completion Date for Submittal to RevCom:** 02/2012

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 15

**5.2 Scope:** This standard defines a vendor-independent set of policy-based control architectures and corresponding policy language requirements for managing the functionality and behavior of dynamic spectrum access networks.

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

**5.4 Purpose:** The purpose of this standard is to define policy language requirements and associated architecture requirements for interoperable, vendor-independent control of Dynamic Spectrum Access functionality and behavior in radio systems and wireless networks. This standard will also define the relationship of policy language and architecture to the needs of at least the following constituencies: the regulator, the operator, the user, and the network equipment manufacturer.

**Changes in purpose:** The purpose of this standard is to define policy language **requirements** and associated architecture requirements for interoperable, vendor-independent control of Dynamic Spectrum Access functionality and behavior in radio systems and wireless networks. This standard will also define the relationship of policy language and architecture to the needs of at least the following constituencies: the regulator, the operator, the user, and the network equipment manufacturer.

**5.5 Need for the Project:** Cognitive Radio, Software Defined Radio, and similar devices, networks and applications are increasingly being adopted within industry. Concurrently, multiple business models as well as other needs, such as military and public safety, are emerging, most with conflicting goals and operating procedures. Devices, networks and applications that can use Cognitive Radios for Dynamic Spectrum Access applications require an interoperable means of specifying rules to govern the functionality and behavior of Cognitive Radios in a scalable manner. Policy-based management has this general capability; hence, this standard fulfills this need, since it enables these entities to be re-purposed to solve different application-specific needs and to serve in different scenarios where multi-vendor operation is required.

**5.6 Stakeholders for the Standard:** Stakeholders include wired and wireless devices end users, regulators, operators and network equipment manufacturers. The functionality targeted in this standard will lead to the optimum exploitation of the

radio eco-space, for all stakeholders, in order to obtain required metrics (e.g., Quality of Service). This in turn will enable the development of anytime, anywhere, any-media access to resources and services, thus perpetuating the industry and its investments.

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#### **Intellectual Property**

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

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

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

#### **7.2 Joint Development**

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

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**8.1 Additional Explanatory Notes (Item Number and Explanation):** In reviewing the draft standard ballot comments, we recognized that we left out the word "requirements" after policy language in the first sentence of the purpose which changes it's context. Please approve since change is one additional word to match draft standard.