Draft PAR and Five Criteria for Standard for Conformance to IEEE 802.20 Systems – Protocol Implementation Conformance Statement (PICS) Pro-forma.

This PAR was discussed by the 802.20 Working Group in the November 2007 Plenary. The Scope, Purpose, Need and key dates were reviewed and agreed by the Working Group at the January 2008 Interim session. The PAR and Five Criteria will be reviewed and voted on by the Working Group at the March 2008 Plenary.

Abstract

This document provides a proposed PAR and 5 Criteria for IEEE P802.20.2. The PAR form is copied from the IEEE web site official PAR submission form.

The editorial contact for this Draft is Jim Tomcik (jtomcik@qualcomm.com)

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Draft PAR Confirmation Number: 227691584.9163

Submittal Email: jtomcik@qualcomm.com

Type of Project: PAR for a New Standard

1.1 Project Number: P802.20.2

1.2 Type of Document: Standard for

1.3 Life Cycle: Full

1.4 Is this project in ballot now? No

1.5 Is the balloting group aware of the PAR modification?

2.1 Title of Standard: Standard for Conformance to IEEE 802.20 Systems – Protocol Implementation Conformance Statement(PICS)Pro-forma

3.1 Name of Working Group: Mobile Broadband Wireless Access (MBWA) Working Group(C/LM/WG802.20)
Contact information for Working Group Chair
Arnold Greenspan
15961 Loch Katrine Trail #7105
Delray Beach, FL 33446
US
a.greenspan@ieee.org

3.2 Sponsoring Society and Committee:IEEE Computer Society/Local and Metropolitan Area Networks(C/LM)
Contact information for Sponsor Chair:
Paul Nikolich
18 Bishops Lane
Lynnfield, MA 01940
US
p.nikolich@ieee.org
Contact information for Standards Representative:

4.1 Type of Ballot: Individual

4.2 Expected Date of Submission for Initial Sponsor Ballot: 2009-01

4.3 Projected Completion Date for Submittal to RevCom: 2009-12

5.1 Approximate number of people expected to work on this project: 50

5.2 Scope of Proposed Standard: This standard represents the Protocol Implementation Conformance Statement(PICS) Proforma, per ISO/IEC Standard
9646-7 (1995) and ITU-T X.296, for the conformance specification of base stations and subscriber stations based upon the air interface specified in IEEE P802.20.

5.3 Is the completion of this standard is dependent upon the completion of another standard: Yes
If yes, please explain: The standard will relate to conformance to IEEE802.20. Work under this PAR

can progress based on the draft but cannot be completed until the 802.20 specification is complete. The 802.20 draft is currently in Sponsor Ballot, and completion is expected soon.

5.4 Purpose of Proposed Standard: This document describes the capabilities and options within the air interface specified in IEEE P802.20. It is to be completed by the supplier of a product claiming to implement the protocol. It indicates which capabilities and options have been implemented. It allows a user of the product to evaluate its conformance and to determine whether the product meets the user's requirements.

5.5 Need for the Project: This standard is needed to aid potential users of 802.20 products in determining whether or not the product meets the user's requirements.

5.6 Stakeholders for the Standard: 802.20 equipment suppliers, service providers, and users.

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: 2008-03-17
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?
If yes, please explain:
and answer the following: Sponsor Organization:
Project/Standard Number:
Project/Standard Date:
Project/Standard Title:

7.2 Future Adoptions
Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization?
If Yes, the following questions must be answered:
Technical Committee Name and Number:
Other Organization Contact Information:
Contact person:
Contact 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?
If yes, please explain:

7.4 Additional Explanatory Notes: (Item Number and Explanation)

Contact the NesCom Administrator

802.20 CONF01 – PICS Proforma

Draft 5 Criteria Document

February, 2008

Broad Market Potential

- **Broad Sets of Applicability**
- **Multiple Vendors and numerous users**
- **Balanced Costs**

  - *IEEE 802.20 is broadly applicable to many application environments. A standardized PICS ProForma will enable equipment manufacturers to state their products' features in a non-ambiguous way.*
  - *802.20 is envisioned to have many different vendors and users. A standardized PICS Proforma will help to enhance the relationships between vendors and users by clarifying the capabilities of 802.20 products*
  - *Since this standard will be based on the features in the initial version of 802.20, it does not change existing cost models for devices or infrastructure*

Compatibility with IEEE 802.1

- **Conformance with 802 Overview and Architecture**
- **Conformance with 802.1D, 802.1Q**
- **Conformance with 802 Functional Requirements**

  – *The proposed standard will be based on the approved version of IEEE 802.20. IEEE 802.20 conforms with the 802 Overview, the 802 Architecture, and the 802 Functional Requirements.*

  – *IEEE 802.20 also supports 802.1D and 802.1Q*

Distinct Identity

- **Substantially different from other 802 standards**
- **Unique solution for problem (not two alternatives)**
- **Easy for document reader to select relevant spec.**
  - *There is no existing 802 standard or approved project that provides a PICS Proforma for 802.20 devices.*
  - *The proposed standard will provide pointers to the relevant parts of 802.20; it will therefore be a clear starting point for those wishing to state the features of their products in a standardized way.*

Technical Feasibility

- **Demonstrated system, feasibility; reports & working models**
- **Proven technology, reasonable testing**
- **Confidence in reliability**

  – *Since this standard will reference parts of an existing IEEE standard, the feasibility of the baseline standard also applies to this standard.*

  – *The existing IEEE standard serving as the baseline for this work constitutes a proven, reliable technology.*

Economic Feasibility

- **Known cost factors, reliable data**
- **Reasonable cost for performance expected**
- **Consideration of installation costs**

- *Cost factors are no different from those known cost factors of the baseline standard*

- *Cost for performance expected is no different from the cost for performance expected of the baseline standard*

- *Installation costs are no different from those of the baseline standard*