IEEE P802.11
Wireless LANs

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| 802.11 HEW Draft PAR and 5C |
| Date: 2013-11-12 |
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Abstract

This is a draft PAR and five criteria for IEEE 802.11 HEW Study Group consideration.

R0: document created.

# PAR

**P802.11**

**Submitter Email: osama53@rogers.com**
**Type of Project:** Amendment to IEEE Standard 802.11-2012
**PAR Request Date:** TBD
**PAR Approval Date:
PAR Expiration Date:
Status:** Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

**1.1 Project Number:** P802.11tbd
**1.2 Type of Document:** Standard
**1.3 Life Cycle:** Full Use

**2.1 Title:** Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications-- Amendment: Enhancements for Highly Efficient Wireless LAN

**3.1 Working Group:** Wireless LAN Working Group (C/LM/WG802.11)
**Contact Information for Working Group Chair**

**Name:** Bruce Kraemer
**Email Address:** bkraemer@marvell.com
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**Contact Information for Working Group Vice-Chair Name:** Jon Rosdahl
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**3.2 Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM)
**Contact Information for Sponsor Chair**

**Name:** Paul Nikolich
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**Contact Information for Standards Representative Name:** James Gilb
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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:**20xx-xx
**4.3 Projected Completion Date for Submittal to RevCom:**20xx-xx

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 150

**5.2.a. Scope of the complete standard: TBD**

**5.2.b. Scope of the project: TBD**
 **5.3 Is the completion of this standard dependent upon the completion of another standard: TBD**

 **5.4 Purpose:** TBD

**5.5 Need for the Project:**TBD.
 **5.6 Stakeholders for the Standard:**TBD.

**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

**7.1 Are there other standards or projects with a similar scope?:**
TBD

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

**8.1 Additional Explanatory Notes (Item Number and Explanation):**

# Five Criteria

## Broad Market Potential

A standards project authorized by IEEE 802 LMSC shall have a broad market potential. Specifically, it shall have the potential for:

a) Broad sets of applicability.

TBD.

b) Multiple vendors and numerous users.

TBD.

c) Balanced costs (LAN versus attached stations).

TBD.

## Compatibility

IEEE 802 LMSC defines a family of standards. All standards should be in conformance : IEEE Std 802, IEEE 802.1D, and IEEE 802.1Q. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with IEEE 802.1 Working Group. In order to demonstrate compatibility with this criterion, the Five Criteria statement must answer the following questions.

a)Does the PAR mandate that the standard shall comply with IEEE Std 802, IEEE Std 802.1D and IEEE Std 802.1Q?

b)If not, how will the Working Group ensure that the resulting draft standard is compliant, or if not, receives appropriate review from the IEEE 802.1 Working Group?

TBD.

## Distinct Identity

Each IEEE 802 LMSC standard shall have a distinct identity. To achieve this, each authorized project shall be:

a) Substantially different from other IEEE 802 LMSC standards.

TBD.

b) One unique solution per problem (not two solutions to a problem).

TBD.

c) Easy for the document reader to select the relevant specification.

TBD.

## Technical Feasibility

For a project to be authorized, it shall be able to show its technical feasibility. At a minimum, the proposed project shall show:

a) Demonstrated system feasibility.

TBD.

b) Proven technology, reasonable testing.

TBD.

c) Confidence in reliability.

TBD.

d) Coexistence of IEEE 802 LMSC wireless standards specifying devices for unlicensed operation.

TBD

## Economic Feasibility

For a project to be authorized, it shall be able to show economic feasibility (so far as can reasonably be estimated) for its intended applications. At a minimum, the proposed project shall show:

a) Known cost factors, reliable data.

TBD.

b) Reasonable cost for performance.

TBD.

c) Consideration of installation costs

TBD. **References:**

1. IEEE Std 802.11-2012, “… Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications”, 6 February 2012.