Project	**IEEE 802.16 Broadband Wireless Access Working Group** **<http://ieee802.org/16>**
Title	**Proposed Editorial Update to 802.16j PAR Proposal**
Date Submitted	**2006-03-02**
Source(s)	Roger B. Marks Chair, IEEE 802.16 WG	Voice: +1 303 497 7837 mailto:r.b.marks@ieee.org
Re:	Draft P802.16j PAR and Five Criteria on Mobile Multihop Relay (IEEE 802.16mmr-06/002)
Abstract	At Session #41, the 802.16 Working Group's Study Group on Mobile Multihop Relay proposed a new P802.16j PAR <http://ieee802.org/16/sg/mmr/docs/80216mmr-06_002.pdf>. The WG Chair submitted this PAR to the IEEE 802 EC for review at the March 2006 802 Plenary. Later, the WG Chair submitted a version of the PAR by the deadline required for consideration at the next NesCom meeting of 29 March. This contribution represents that submittal. The version submitted is not identical to that submitted to the IEEE 802 EC, primarily because the nature of the PAR submittal form has changed.
Purpose	The contributor suggests that the WG take this document as the new baseline PAR for discussion.
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.
Patent Policy and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures (Version 1.0) <http://ieee802.org/16/ipr/patents/policy.html>, including the statement "IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair <mailto:r.b.marks@ieee.org > as early as possible, in written or electronic form, of any patents (granted or under application) that may cover technology that is under consideration by or has been approved by IEEE 802.16. The Chair will disclose this notification via the IEEE 802.16 web site <http://ieee802.org/16/ipr/patents/notices>.

1. ASSIGNED PROJECT NUMBER: 802.16j

2. SPONSOR DATE OF REQUEST: 7-Feb-2006

3. TYPE OF DOCUMENT: Standard

4. TITLE OF DOCUMENT: Amendment to IEEE Standard for Local and Metropolitan Area Networks – Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems – Physical and Medium Access Control Layers for Mobile Multihop Relay

5. LIFE CYCLE: Full-Use

6. TYPE OF PROJECT: Amendment 802.16

Modified PAR?
In Ballot? No

7. WORKING GROUP INFORMATION

Name of Working Group: IEEE 802.16 Working Group on Broadband Wireless Access
Approximate Number of Expected Working Group Members: 300

8. CONTACT INFO FOR WORKING GROUP CHAIR

Name of Working Group Chair: Roger Marks
Telephone: +1 303 497 7837
FAX:
E-mail: r.b.marks@ieee.org

9. CONTACT INFO OF CO-CHAIR/OFFICIAL REPORTER

Name of Co-Chair/Official Reporter:
Telephone:
FAX:
E-mail:

10. CONTACT INFO OF SPONSOR

Sponsor: C/LM
Name of Sponsor Chair: Paul Nikolich
Telephone: +1 857 205 0050
FAX: +1 781 334 2255
E-mail: p.nikolich@ieee.org

CO-SPONSOR INFORMATION (THIS IS BEING SPONSORED BY TWO SPONSORS):
Cosponsor: MTT/SCC
Name of Cosponsor Chair: Richard Snyder
Telephone: +1 973 492 1207 x23
FAX: +1 973 492 2471
E-mail: r.snyder@ieee.org

11. TYPE OF SPONSOR BALLOT: Individual

Expected Date of Submission for Initial Sponsor Ballot: Mar-2007

12. PROJECTED COMPLETION DATE FOR SUBMITTAL TO REVCOM: Sep-2007

13. SCOPE: This document specifies OFDMA physical layer and medium access control layer enhancements to IEEE Std 802.16 for licensed bands to enable the operation of relay stations. Subscriber station specifications are not changed.

Completion of this document contingent upon another document? No

14. PURPOSE: This amendment provides specifications for mobile multihop relay features, functions and interoperable relay stations to enhance coverage, throughput and system capacity of 802.16 networks.

15. REASON: The multihop relay is a promising solution to expand coverage and to enhance throughput and system capacity for IEEE 802.16 systems. It is expected that the complexity of relay stations will be considerably less than the complexity of legacy IEEE 802.16 base stations. The gains in coverage and throughput can be leveraged to reduce total deployment cost for a given system performance requirement and thereby improve the economic viability of IEEE 802.16 systems. Relay functionality enables rapid deployment and reduces the cost of system operation. These advantages will expand the market opportunity for broadband wireless access. This project aims to enable exploitation of such advantages by adding appropriate relay functionality to IEEE Std 802.16 through the proposed amendment.

16. INTELLECTUAL PROPERTY:

IEEE-SA Policy on Intellectual Property Presented: Yes 9-Jan-2006
Copyrights: No
Trademarks: No
Registration of Object: No

17. SIMILAR SCOPE: No

18. FUTURE ADOPTION: Yes

Int'l Organization: ITU
Int'l Contact Person: José Costa
Telephone: +1 613 763 7574
FAX: +1 613 765 1225
E-mail: j.costa@ieee.org

19. Health, Safety or Environmental Issues: No

Explanation:

20. SPONSOR INFORMATION:

a. Is the scope of this project within the approved scope/definition of the Sponsor's Charter?
Yes
Explanation:
b. Sponsor's procedures accepted by AudCom: Yes

21. ADDITIONAL NOTES: Item 13. The relay station is controlled by the base station.

I acknowledge having read and understood the IEEE Code of Ethics I agree to conduct myself in a manner which adheres to the IEEE Code of Ethics when engaged in official IEEE business.

REVIEWED & SUBMIT

The PAR Copyright Release and Signature Page must be submitted either by FAX to 732-875-0695 or as e-mail attachment in .pdf format to the NesCom Administrator before this PAR will be sent on for NesCom and Standards Board approval.