

Title: Draft PAR for IEEE 802.16 Project on License-Exempt Coexistence

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Source:

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Venue:

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See also: C802.16le-04/02r1

Purpose:

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TYPE OF DOCUMENT

_ (Please check one.)

* **Standard for** {document stressing the verb "shall"}

Recommended Practice for {document stressing the verb "should"}

Guide for {document in which good practices are suggested, stressing the verb "may"}

_ Justification

- Contributions only on coexistence protocol
- No contributions on recommended practice

TITLE OF DOCUMENT

- *Amendment to IEEE Standard for Local and Metropolitan Area Networks -
Part 16: Air Interface for Broadband Wireless Access Systems _
Amendments for Improved Coexistence in License-Exempt Bands*

SPONSOR BALLOTING INFORMATION

(Please choose one of the following):

* Individual Balloting

Entity Balloting

Mixed Balloting (combination of Individual and
Entity Balloting)

**Expected Date of Submission for Initial Sponsor
Ballot:**

Day: Month: *10* Year: *2006*

Scope justification

- PHY + MAC
 - PHY: signaling, better masks, better immunity
 - MAC: messages
- Spectrum Sharing Mechanisms
 - Basics of the spectrum resource management

SCOPE OF PROPOSED PROJECT

- Please detail the projected output including technical boundaries. Please be brief (less than 5 lines).
- *This amendment enhances the IEEE Standard 802.16 by providing spectrum sharing mechanisms and additional specifications to Physical and Medium Access Control Layers, required to support coexistence between IEEE 802.16 systems.*

PURPOSE OF PROPOSED PROJECT

- Please clearly and concisely define "why" the document is being done. Please be brief (less than 5 lines).
- *This standard will allow more efficient and robust use of the license-exempt (LE) bands, increasing the market for broadband wireless access solutions. It will support services for both enterprise and consumer markets.*

PURPOSE OF PROPOSED PROJECT _

cont.

- **Please give the specific reason for the standardization project, with particular emphasis on the problem being solved, the benefit to be received and target users or industries.**
- *This standard will create better coexistence in LE bands. In LE conditions, the potential for interference is high and the interference changes dynamically. The increased use of the LE spectrum will increase the interference problems. Higher immunity to interference while avoiding creating and receiving interference is required. The target users (service providers and consumers) will receive better service experience.*

Amendment to...

- Amendment to an existing document (indicate number and year existing document was published in box to the right):
- ***IEEE 802.16-2004***