

## Title: Draft PAR for IEEE 802.16 Project on License-Exempt Coexistence – Revision after Comments

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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 Fixed 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 specifies additional spectrum sharing mechanisms as enhancements to systems based on IEEE Standard 802.16-2004 to support improved coexistence for License Exempt operation below 11 GHz.*

# 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*