

## Title: LETG proposal on IEEE 802.16h PAR change

Document Number: C802.16h-06/070

Date Submitted: July 21, 2006

Source:

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LE TG Chair

Venue:

Session \$ 44, 17-20 July, 2006

Base Document:

**Purpose:**

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LE TG proposal on IEEE 802.16h PAR  
change

Mariana Goldhamer  
LE Task Group Chair

# Observations on the existing PAR - Title

- C802.16-04/56r1
- Title (pct. 4)

Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16:  
Air Interface for Fixed Broadband Wireless Access Systems - Improved Coexistence  
Mechanisms for License-Exempt Operation.

- The title shall be aligned with the current Part 16 Title
  - Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed and **Mobile** Wireless Access Systems - Improved Coexistence Mechanisms for License-Exempt Operation

# Observations on the existing PAR - type

- Type of Project (pct 6):

Amendment to an existing document (indicate Number and year existing document was published in box to the right):

IEEE 802.16-2004  
(####-YYYY)

- Delete the 2004

- The 802.16h is de facto an amendment to the current 802.16 standard, including 802.16e-2005

# Observations on the existing PAR - Purpose

This standard will improve the coexistence in license-exempt (LE) operation for IEEE 802.16 fixed wireless systems. It will reduce the potential for interference caused by such systems sharing the same LE bands. The mechanisms specified need to be widely implemented and interoperable for their benefits to be realized, so standardization is required. As result there will be improved user service experience and increased robustness and efficiency of spectrum use. This will expand the market opportunities for enterprise, service provider, and consumer applications.

- **Modify:**

- this standard will improve the coexistence in License-Exempt (LE) and operation for IEEE 802.16 fixed and **mobile** wireless systems.
  - There is agreement in the LE Group that non-exclusively licensed bands, as 3.65GHz in US, are also in the scope. The regulatory terminology shall not affect the market of the standard.
  - “In the context of this standard, the use of the term “license-exempt frequencies” or “license-exempt bands” should be taken to mean the situation where licensing authorities do not coordinate individual assignments to operators, regardless of whether the spectrum in question has a particular regulatory status as license-exempt or licensed.”

# Scope

This amendment specifies improved mechanisms, as policies and medium access control enhancements, to enable coexistence among license-exempt systems based on IEEE Standard 802.16 and to facilitate the coexistence of such systems with primary users.

- Un-changed

## Proposed actions

- Submit the modified PAR for approval by the 802 EC meeting in November
  - The modifications are needed for clarifying the LE TG scope
- Extend the 16h applicability
  - Mobility in LE bands
    - Study the implications and present to 802.16 WG in September
    - Study the impact on project completion dates

