Title: Proposal for creation of a Study Group on Coexistence in License-Exempt bands

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Chair – Ad-Hoc Committee for License Exempt Co-existence

ALVARION

21a HaBarzel Street, Tel Aviv, Israel

Venue:

Meeting #32, 12-15 July 2004, Portland, USA

Base Document: -

Purpose: Start the discussion on creation of a 802.16 Study Group on Coexistence in License Exempt bands

Proposal for creation of a Study Group on Coexistence in License-Exempt bands

Mariana Goldhamer

Chair

LE Coexistence Ad-Hoc Committee

802.16 LE Coexistence Ad-Hoc Committee Results

- There are considerable co-existence problems between systems operating in a non-coordinated mode
- We believe that a solution mechanism could be achieved
- Not only 802.16 systems should be considered as interference sources; possible solution mechanism may be applicable to other radio interfaces
- A Study Group is recommended to continue the work

Study Group scope - 1

- Assess the feasibility of a coexistence protocol, PHY independent, and adapted to 802.16 MAC protocol, including:
  - PHY/MAC modifications
    - PHY independent protocol
  - Inter-system communication protocol
  - Spectrum sharing rules
    - Take advantage of the 802.16 MAC predictive behavior
- Study differences between Licensed and LE environment, considering the amendment of IEEE 802.16.2 standard

Study Group scope - 2

- Study the impact on protocol and “Recommended practice” of spectrum sharing with primary (licensed) spectrum users in LE bands
  - Dynamic deployment environment

Supplementary issues for SG scope - 1

- Consider interference from and to other sources in 802 community, including IEEE 802.11 and IEEE 802.15, as it relates to IEEE 802.16
  - Inputs from other WGs and TAGs are welcome

Conclusion

- LE Ad-Hoc Committee proposes the creation of an 802.16 Study Group on LE Coexistence