Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Initial Table of Contents for IEEE 802.16h**
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Abstract	
Purpose	To be used in further work.
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Table of Contents for IEEE 802.16h

Mariana Goldhamer

Alvarion

Introduction

The scope of drafting a TOC: guidance for further submissions and work.

Proposed Draft

802.16h scope

- take the PAR text

802.16h applicability

Un-coordinated frequency operation in all bands in which 802.16-2004 is applicable, including bands allowing shared services.***Interference detection and prevention – general architecture***Shared Radio Resource Management

- Principles
- Shared distributed system architecture

Interference victims and sources

- Identification of the interference situations
  - Interferer identification
  - Grouping of interfering/not-interfering units
- Identification of spectrum sharers
  - Regulations
  - Messages to disseminate the information
  - Avoid false-identification situations

Interference prevention

- Adaptive Channel Selection – ACS
  - Between systems
- Dynamic Frequency Selection – DFS
  - Frequency selection for regulatory compliance
- Pro-active cognitive approach
  - Signaling to other systems

Transmission of information

- Using dedicated messages
  - Common PHY

  - Between BS and SS
  - BS to BS
  - Connection sponsorship
- Using a common management system
  - Higher layers communication
  - Decentralized control
  - Information sharing
  - IP address dissemination

Common policies

- How to select a "free" channel (for ACS and DFS)
  - Acceptable S/(N+I)
  - Acceptable time occupancy
  - Capability of sharing the spectrum to implement a Shared Radio Resource policy
- Interference reduction policies:
  - BS synchronization
    - GPS
    - Ad-hoc
  - Shared Radio Resource Management
    - Fairness criteria
    - Distributed scheduling
      - Assignments
    - Distributed power control
    - Distributed bandwidth control
    - Beam-forming