Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >	
Title	Proposed 802.16m SDD Table of Contents	
Date Submitted	2007-11-07	
Source(s)	Lei Wang, Yair Bourlas, William Burchill, Kenneth Stanwood NextWave Broadband	Voice: [Telephone Number (optional)]] E-mail: lwang@nextwave.com; ybourlas@nextwave.com * <http: affiliationfaq.html="" faqs="" standards.ieee.org=""></http:>
Re:	IEEE 802.16m-07/040 ("Call for Contributions on Project 802.16m System Description Document (SDD)")	
Abstract	This document describes a proposal for 802.16m SDD's Table of Contens.	
Purpose	To be discussed and adopted by TGm for the 802.16m SDD.	
Notice	This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups. It represents only the views of the participants listed in the "Source(s)" field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein.	
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.	
Patent Policy	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: http://standards.ieee.org/guides/bylaws/sect6-7.html#6 and http://standards.ieee.org/guides/opman/sect6.html#6.3 . Further information is located at http://standards.ieee.org/board/pat/pat-material.html and http://standards.ieee.org/board/pat/ .	

Proposed 802.16m SDD Table of Contents

Lei Wang, Yair Bourlas, William Burchill, Kenneth Stanwood NextWave Broadband

Introduction

This document describes a proposal for the 802.16m SDD Table of Contents (ToC). The goal is to ensure that the 802.16m SDD will efficiently service its two purposes: (1) as a high-level description document for the 802.16m draft, and (2) as the baseline for the 802.16 WG's proposal to ITU-R's IMT-Advanced activity.

Proposed 802.16m SDD ToC

- 1. Overview
 - 1.1. Scope
 - 1.2. Purpose
 - 1.3. Frequency bands
 - 1.4. Reference model
 - 1.5. Compliance and Compatibility
 - 1.6. Clause-by clause Mapping of SDD content into amendment format
- 2. References
- 3. Definitions
- 4. Abbreviations and acronyms
- 5. Packet Convergence Sublayer
 - 5.1. Classification
 - 5.2. Security
 - 5.3. Header Compression
- 6. MAC common part sublayer
 - 6.1. System Topology
 - 6.1.1. Point-to-MutiPoint (PMP)
 - 6.1.2. Relay (optional)
 - 6.2. Addressing and Connections
 - 6.3. MAC PDU formats
 - 6.4. MAC Management Messages
 - 6.5. Construction and transmission of MAC PDUs
 - 6.5.1. Conventions
 - 6.5.2. Concatenation
 - 6.5.3. Fragmentation and Reassembly

- 6.5.4. Packing
- 6.5.5. CRC Calculation
- 6.5.6. MAC PDU Payload Encryption
- 6.6. Access Control
 - 6.6.1. Scheduling-Based Access
 - 6.6.2. Contention-Based Access
- 6.7. Layer-2 Error Control
 - 6.7.1. HCS
 - 6.7.2. CRC
 - 6.7.3. ARQ (optional)
 - 6.7.4. MAC PDU Delivery Order
- 6.8. Bandwidth Allocation and Request Mechanisms
- 6.9. Network entry and initialization
 - 6.9.1 Normal Case
 - 6.9.2 Emergency Services
- 6.10. Quality of Service (QoS)
- 6.11. Handover (HO)
- 6.13. Sleep Mode
- 6.14. Idle Mode
- 6.15. Multicast Broadcast Service (MBS)
- 6.16. Location Based Service (LBS)
 - 6.16.1 MSS Location Determination
 - 6.16.2 Emergency Services Support
- 6.17. Supports for Multi-RAT Operation
- 6.18. Channel Aggregation
- 7. MAC-Support-PHY (MSP) Sublayer
 - 7.1. Duplexing Modes
 - 7.1.1. Time Division Duplexing (TDD)
 - 7.1.2. Frequency Division Duplexing (FDD)
 - 7.2. DL Allocations (DL MAP)
 - 7.3. UL Allocations (UL-MAP)
 - 7.4. DL Control Channel
 - 7.5. UL Control Channel
 - 7.6. Ranging

7.7. Channel Quality Reporting

7.8. HARQ

8. PHY

- 8.1. Introduction
- 8.2. OFDMA Symbol Structure
- 8.3. Frame Structure
 - 8.3.1. Duplexing
 - 8.3.2. Transport Channels
 - 8.3.2.1.Ambles
 - 8.3.2.2.Pilots
 - 8.3.2.3.Control
 - 8.3.2.4.Data
 - 8.3.3. AAS Support
- 8.4. Transport Channel Constructions
 - 8.4.1 Permutations
- 8.5. Channel Coding
 - 8.5.1. CC
 - 8.5.2. CTC
 - 8.5.3. RS
 - 8.5.4. STC
 - 8.5.5. HARQ
- 8.6 Modulation
- 8.7. Transmitter Requirements
 - 8.7.1 Power Control
 - 8.7.2 Zone Boosting
 - 8.7.3 Spectral Flatness
 - 8.7.4 Spectral Mask
 - 8.7.5 Signal Quality
 - 8.7.6 Timing Accuracy
 - 8.7.7 Frequency Accuracy
 - 8.7.8 Symbol Clock Accuracy
- 8.8. Receiver requirements
 - 8.8.1. Sensitivity
 - 8.8.2. Time Tracking Accuracy
 - 8.8.3. Max Input
 - 8.8.4. Cochannel Rejection
 - 8.8.5. Adjacent Channel Rejection
- 8.9 Measurements
 - 8.9.1. CQI
 - 8.9.2. RSSI
 - 8.9.3. CINR
 - 8.9.4. ACC (advanced channel characterization)
- 8.10 Autonomous Neighbor Scanning
- 9. Configuration

- 10. Parameters and constants
- 11. MAC Management Message Encodings
- 12. System Profiles