

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	TOC of Task Group Working Document	
Date Submitted	2006-08-31	
Source(s)	Mike Hart Fujitsu Labs of Europe Hayes Park Central, Hayes UB4 8FE, UK	Voice: +44 20 8606 4523 Fax: +44 20 8606 4539 mike.hart@uk.fujitsu.com
	JungJe Son Samsung	jungje.son@samsung.com
Re:		
Abstract	Initial TOC proposal for the Task Group working document.	
Purpose	For discussion at meeting #45.	
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) 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 and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures < http://ieee802.org/16/ipr/patents/policy.html >, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair < mailto:chair@wirelessman.org > as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site < http://ieee802.org/16/ipr/patents/notices >.	

Table of Contents of Task Group Working Document

Mike Hart & JungJe Son
Relay TG Editors

Introduction

This document is provided in response to the authorization of the TG editors through a motion passed by the Relay TG at session #44 to draft an initial Table of Contents of the Task Group working document.

As this is an editorial task, the number of sections taken from the existing standards documents (IEEE Std. 802.16-2004, IEEE Std. 802.16e-2005, IEEE Std. 802.16-2004/Cor1-2005) is kept to those that can be considered as obvious. These are sections that already exist where at a minimum clarification would be required to explain the impact of the introduction of a relaying mechanism and/or a relaying entity (i.e. relay station) on the existing features.

It is the view of the editors that determining whether or not further sections should be added requires some technical decisions to be made. Furthermore, as the editors were specifically instructed to create the ToC based on the existing standard, it is outside of their power to propose new sections at this time.

Consequently, an extensive list of sections is not provided at this point in time and it is left to the Task Group through comments and contributions in Session #45 to build on this basic list to work towards developing an initial Table of Contents for the Project 802.16j Baseline Task Group Document.

Table of Contents

1. Overview
 - 1.1 Scope
 - 1.2 Purpose
 - 1.3 Frequency bands
 - 1.3.4 Air interface nomenclature and PHY compliance
 - 1.4 Reference model
2. References
3. Definitions
4. Abbreviations and acronyms
6. MAC common part sublayer
 - 6.1 PMP
 - 6.3 Data/Control plane
 - 6.3.1 Addressing and connections
 - 6.3.2 MAC PDU formats
 - 6.3.3 Construction and transmission of MAC PDUs
 - 6.3.4 ARQ mechanism
 - 6.3.6 Bandwidth allocation and request mechanisms
 - 6.3.7 MAC support of PHY
 - 6.3.8 Contention resolution
 - 6.3.9 Network entry and initialization
 - 6.3.10 Ranging
 - 6.3.11 Update of channel descriptors
 - 6.3.14 QoS
 - 6.3.17 MAC support for HARQ
 - 6.3.18 DL CINR report operation
 - 6.3.19 optional Band AMC operations using 6-bit CQICH encoding
 - 6.3.21 Sleep mode for mobility-supporting MS

- 6.3.22 MAC layer handover procedures
- 6.3.23 Multicast and broadcast services (MBS)
- 6.3.24 MS Idle Mode (optional)

7. Security sublayer

- 7.1 Architecture
- 7.2 PKM protocol
- 7.3 Dynamic SA creation and mapping
- 7.4 Key usage
- 7.5 Cryptographic methods
- 7.6 Certification profile
- 7.7 Pre-Authentication
- 7.8 PKMv2

8. PHY

- 8.4 WirelessMAN-OFDMA PHY layer
 - 8.4.1 Introduction
 - 8.4.4 Frame structure
 - 8.4.5 Map message fields and IEs
 - 8.4.7 OFDMA ranging
 - 8.4.8 Space-Time Coding (optional)
 - 8.4.9 Channel coding
 - 8.4.10 Control mechanisms
 - 8.4.11 Channel quality measurements
 - 8.4.12 Transmitter requirements
 - 8.4.13 Receiver requirements
 - 8.4.14 Frequency control requirements
 - 8.4.15 Optional HARQ support

9. Configuration

10. Parameters and constants

- 10.1 Global values
- 10.2 PKM parameter values
- 10.3 PHY-specific values
- 10.4 Well-known addresses and identifiers

11. TLV Encodings