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Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Draft Table of Content for the IEEE 802.16m System Description Document**
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Re:	IEEE 802.16m-07/040 - Call for Contributions on Project 802.16m System Description Document (SDD)
Abstract	This document contains editor's consolidated Table of Content proposal for the IEEE 802.16m SDD
Purpose	Review and endorse as baseline draft
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Draft Table of Content for the IEEE 802.16m System Description Document

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Introduction

This document is editor's proposal on the Table of Content for the IEEE 802.16m SDD. It is generated after a brief review of the following contributions: C80216m-07_202r1, C80216m-07_225, C80216m-07_236, C80216m-07_241r1, C80216m-07_247, C80216m-07_251r2, C80216m-07_252r1, C80216m-07_255, C80216m-07_262, C80216m-07_264, C80216m-07_279, C80216m-07_280, C80216m-07_283r1, C80216m-07_284r1, C80216m-07_298r1, C80216m-07_303, C80216m-07_307r1, C80216m-07_310r1, C80216m-07_311r1, C80216m-07_312r1, C80216m-07_313r1 and C80216m-07_314r1

Table of Content

1 Scope

2 References

3 Definition, Symbols, Abbreviation

4 Abstract

5 Overall Network Architecture

<Editor's Note: This section will describe the overall network architecture applicable to 802.16m.>

6 IEEE 802.16m System Reference Model

<Editor's Note: This section describes system reference model in for those functions introduced in the 802.16m air interface>

7 IEEE 802.16m Top Level System State Diagrams

<Editor's Note: To capture only the top level states of the mobile stations, base stations. Detailed feature specific state diagrams will be captured elsewhere in the respective sections.>

8 Frequency Bands

<Editor's Note: This section will describe the frequency bands that are applicable to the IEEE 802.16m system>

9 IEEE 802.16m Air-Interface Protocol Structure

10 PHY Layer

10.1 Multiple Access Scheme

<Editor's note: This section describes multiple access schemes for UL and DL.>

10.2 Duplexing

<Editor's note: This section describes duplexing techniques>

10.3 Frame Structure

<Editor's note: This section describes the frame structure, including TDD, FDD and H-FDD frame structures.>

10.4 PHY Processing and Control Mechanism

<Editor's note: This section describes the high-level PHY processing steps for both DL and UL transmission.>

10.5 Subcarrier Allocation

<Editor's note: This section describes data and pilot subcarrier allocation schemes for preamble and various DL/UL permutation zone.>

10.6 Multi-Antenna Transmission

<Editor's note: This section describes DL and UL multi-antenna transmission schemes for both single-user and multi-user MIMO.>

10.7 Channel Coding and Modulation

<Editor's note: This section describes coding and modulation schemes enhancing non-HARQ and HARQ transmission.>

11 MAC Common Part Sub-layer

11.1 Resource Control and Management Functions

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11.1.2 Connection Management

11.1.3 Mobility Management

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1 ## *11.2 Medium Access Control Functions*

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9 [This section describes the security sublayer architecture, key structure, and security mechanisms]

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14.2.1 Mobility from IEEE 802.11 to IEEE 802.16m

14.2.2 Mobility from 3GPP network to IEEE 802.16m

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15 Location Based Services

[Description of location based services architecture and main principles. In particular, this section should contain main procedures over the air interface to enable location based services.]

15.1 Mobile Station Location Estimation and Tracking

16 Regulatory support

16.1 Emergency Services

16.2 Support for CALEA

16.3 Priority Access

17 E-MBS

[This section describes enhanced MBS architecture, single-cell vs. multicell MBS, dedicated/shared MBS carriers and multiplexing unicast and MBS service flows etc..]

18 Support for multi-hop relay

[This section describes the support of relay in the 16m network. It contains the architecture, protocol structure functions, procedures, signaling for enabling the support of relay]

19 Solutions for Co-deployment and Co-existence

[This section describes different co-deployment and co-existence scenario of 16m system and other radio access technologies, and covers issues like interference, spectrum sharing etc.]