

# Proposed Work Plan for the Development of IEEE 802.16m Standard

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Purpose: To assist TGm to define a work plan and schedule for the development of 802.16m standard

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# Introduction

- This contribution contains a proposed work plan and schedule for the development of 802.16m standard.
- The goal is to develop 802.16m standard based on a competitive set of requirements that comply with ITU-R/IMT-Advanced and operators' requirements.
- The 802.16m standardization process shall include development of supporting documents such as system requirements, evaluation methodology, etc. that help specifying the most competitive and high performing technologies for 802.16m based on widely acceptable set of criteria.
- In the development of these supporting documents the ongoing efforts in WiMAX Forum and other standardization bodies should be considered and incorporated.
- Lack of system requirements and evaluation methodology for the 802.16e-2005 standard resulted in confusion and inconsistency in the simulation results reported by different implementations.
- The evaluation methodology should allow fair comparison of various technical schemes and to select the best-performing technology based on unified simulation criteria.

# Documents to be Developed in TGm

- The contributors believe that TGm should develop the following documents as part of 802.16m standardization process:
  - System Requirements
    - A set of performance targets and features that 802.16m compliant systems shall meet or exceed.
  - Usage Models and Deployment Scenarios
    - A set of possible deployment scenarios and applications of the 802.16m standard.
  - Evaluation Methodology
    - A complete set of parameters, models, and methodologies for the link-level and system-level simulations that allow fair evaluation/comparison of various technical proposals.
    - Channels Models: A set of spatial channel model parameters are specified to characterize particular features of MIMO radio channels to be used for simulating technical proposals for the future 802.16m standard.
  - 802.16m baseline document (draft standards specification)

# Proposed Work Plan

- The proposed work plan consists of three phases:
  - Initial/Requirements phase (1Q2007 – 2Q2007)
    - Development and ratification of the supporting documents
  - Technology development phase (3Q2007 – 4Q2007)
    - Call for proposals, technology submission, review of the technical proposals, and down selection.
  - Balloting phase (1Q2008 – 3Q2008)
    - Letter ballot and recirculation as well as sponsor ballot and recirculation.
- The proposed work plan would allow completion of the standard by Sept 2008 for approval by Dec 2008.
- An aggressive work plan is proposed to ensure that the standard provides a solution inline with the mobile industry needs.

# TGm Proposed Schedule (1/2)

	2007		
IEEE Meetings	S#47, London	S#48, Orlando	S#49, Portland
TGm Documents	January	March	May
TGm Work Plan/Schedule	Create and Finalize Work Plan		
System Requirements	Discussion on Requirements. Adopt initial baseline requirements. Issue Call for contributions/ comments	Finalize Requirements Document	
Evaluation Methodology	Call for contributions issued	Discuss contributions; Adopt Initial Baseline; Issue Call for comments	Finalize Channel Models and Evaluation Methodology
Usage/Deployment Models	Call for contributions issued	Discuss contributions; Adopt Initial Baseline; Issue Call for comments	Finalize Usage/Deployment Models

# TGm Proposed Schedule (2/2)

2007				2008						
S#49	S#50	S#51	S#52	S#53	S#54	S#55	S#56	S#57		
May	July	Sept	November	January	March	May	July	September	October	December
Call for Proposals Issued	Proposals Discussions. Adopt initial baseline working document; Continue Call for Proposals and Comments; Establish any adhoc for key topics	Proposals Discussions; Adopt more features into working document; Issue Call for comments	Proposals Discussions; Adhocs close work items; Improve features in working document; Issue Call for comments	Discuss Comments; First WG Draft and initiation of WG Letter Ballot	WG Letter Ballot Recirc	WG Letter Ballot Recirc	WG Sponsor Ballot	WG Sponsor Ballot Recirc	RevCom Submittal	RevCom/ IEEE-SA Approval

# Considerations for IMT-Advanced Schedule

