

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Liaison Response from ETSI TM4 to IEEE 802.16.2</b>	
Date Submitted	<b>2000-07-04</b>	
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Re:	Liaison and co-operation between IEEE 802.16 and ETSI WG-TM4.	
Abstract	<p>The attached liaison letter identifies a number of areas of ETSI WG-TM4 activity that could be of interest to the work of IEEE 802.16.</p> <p>a) The final draft status of the co-existence report (<a href="http://ieee802.org/16I-00/07r2">IEEE 802.16I-00/07r2</a>) is detailed.</p> <p>b) The status of the TM4 40GHz Multimedia Wireless System co-existence standard is detailed.</p> <p>c) Noting the activity of 802.16.3, detail on work previously covered within TM4 on standards for FWA systems below 11GHz is offered for information.</p> <p>d) Information on a new work item to address the 32GHz band.</p>	
Purpose	The 802.16 group should note the liaison possibilities which are important to achieving the goal of drafting globally applicable standards and recommended practice documents.	
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Patent Policy and Procedures	<p>The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures (Version 1.0) &lt;<a href="http://ieee802.org/16/ipr/patents/policy.html">http://ieee802.org/16/ipr/patents/policy.html</a>&gt;, including the statement "IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing the standard."</p> <p>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 &lt;<a href="mailto:r.b.marks@ieee.org">mailto:r.b.marks@ieee.org</a>&gt; as early as possible, in written or electronic form, of any patents (granted or under application) that may cover technology that is under consideration by or has been approved by IEEE 802.16. The Chair will disclose this notification via the IEEE 802.16 web site &lt;<a href="http://ieee802.org/16/ipr/patents/letters">http://ieee802.org/16/ipr/patents/letters</a>&gt;.</p>	

## Liaison from ETSI TM4

From: Roberto Macchi, Chairman ETSI-TM4

To: Roger Marks, Chairman IEEE 802.16

Copy: Marianna Goldhammer, ETSI TM4 Liaison Officer

Date: 23<sup>rd</sup> June 2000

Liaison response to IEEE 802.16

TM4 Ref: TM4(00)23\_03Annex06

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### Introduction

ETSI TM4 thanks IEEE 802.16 for the liaison ([IEEE 802.16I-00/14r1](#), dated 30th May 2000) expressing your interest in the ETSI TM4 work item DETR/TM-04069. TM4 are pleased to be able to provide assistance to the work of the 802.16.2 working group dealing with BFWA co-existence issues and welcome further collaboration if possible.

### Status of Work Item DETR/TM-04069

Drafting activities on work item DETR /TM-04069 (Rules for the co-existence of point-to-point and point-to-multipoint systems using different access methods in the same frequency band) are now complete leaving the report in a stable format subject to any comments received during the working group approval process.

The latest stable draft will be provided for your information ([IEEE 802.16I-00/07r2](#)) and can be made freely available on the IEEE 802.16 web site.

### Status of Work Item DEN/TM-04097

The TM4 work item DEN/TM-04097 previously presented in 802.16.2 addressing so-called Multimedia Wireless Systems (MWS) in the 40GHz band, may be of particular interest. Once updated following this TM4 meeting, the draft will be provided for your members/observers only web site, but your attention is drawn to the following specific points reflecting the current thoughts on some of the parameter values and the direction to be taken for certain aspects of the standard which may be of interest to the 802.16.2 group.

#### Spectrum Masks:

To account for the variety of possibilities for MWS channelisation ranging from 2MHz up to 60MHz, further work is in progress on the definition of a “scaleable” spectrum mask. The chief purpose for the mask will be to enable consideration of assigned frequency block edge inter-operator co-existence conditions by the appropriate bodies within Europe.

#### Maximum Power Limits:

Proposals regarding maximum allowed transmitter output power have been inserted in section 5.5.2 of the attached draft standard.

**ATPC:**

It has been agreed that ATPC in the uplink is made mandatory although further discussion over a suitable ATPC range continues.

**Activities below 11GHz**

ETSI WG-TM4 has completed and continues to draft a number of frequency band specific standards applicable to FWA and BFWA. These standards provide values for key parameters necessary to facilitate inter-operator co-existence and the activity of 802.16.3 and their work regarding systems below 11GHz is noted. ETSI WG-TM4 has drafted a number of standards applicable to systems below 11GHz, and these are listed below for information.

Document No.	Abbreviated Title
EN 300 636	P-MP systems in the range 1-3GHz TDMA
EN 301 055	P-MP systems in the range 1-3GHz DS-CDMA
EN 301 373	P-MP systems in the range 1-3GHz FDMA
EN 301 179	P-MP systems in the range 1-3GHz FH-CDMA
EN 301 021	P-MP systems in the range 3-11GHz TDMA
EN 301 080	P-MP systems in the range 3-11GHz FDMA
EN 301 124	P-MP systems in the range 3-11GHz DS-CDMA
EN 301 253	P-MP systems in the range 3-11GHz FH-CDMA
EN 301 744	P-MP systems in the range 3-11GHz DS-CD/TDMA
EN 301 525	Antennas for P-MP systems in the range 1-3GHz
EN 302 085	Antennas for P-MP systems in the range 3-11GHz

If the 802.16.3 group considers it beneficial, then a copy of these standards can be supplied via the liaison officer.

**32GHz Band – New Work Item**

Finally, WG-TM4 would like to highlight the commencement of a new work item (DEN/TM04116) dealing with Fixed Wireless Access systems in the band 31.8-33.4GHz.

## **TM4 Meeting Schedule**

An interim TM4 meeting is scheduled for week commencing 9<sup>th</sup> October 2000 and the next main plenary meeting is scheduled for week commencing 11<sup>th</sup> December 2000.

Regards,

Roberto Macchi  
Chair, ETSI WG-TM4  
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