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ETSI TM4 Liaison Report

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IEEE 802.16 – ETSI-TM4 Liaison

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Base Document: TM4 Activity Report

Purpose:

Inform IEEE 802.16 about the TM4 progress

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ETSI TM4 Report

Marianna Goldhammer
Liaison Officer

TM4 Plenary, 8-12 January 2001

- Main activities:
 - WP1 (P-P)
 - WP2 (P-MP)
 - WP3 (Antennae)
 - R&TTE Directive
 - Liaisons
 - 802.16 Liaison presentation (Annex to this presentation)
 - **TM4 Liaison to IEEE-802.16 – to be presented by Barry Lewis in TG2**

WP2 – General Documents

- TM-4121 Technical report: Derivation of the Parameters for the Co-ordination Multipoint Fixed Service Systems
 - examines measures that might be used to help facilitate coexistence between operators and specify the adequacies of the parameters normally covered by TM4 standardization in achieving the coexistence goals
 - just started drafting

WP2 progress in < 11GHz

- EN 301 021 (TDMA 3-11GHz) opened for:
 - To incorporate new classes to use the channel spacing in accordance with the ERC p-mp recommendations
- EN/TM 4130 – Revision of all 1-3GHz and 3-11GHz standards
 - Review all the current standards and produce a single standard consisting of a common part and parts for the various access methods. The objective of the work is to remove a number of inconsistencies that exist within the current standards. Further, this work item does not, in principle, propose to change any existing technical parameter values

WP2 Progress in > 11GHz

- TM 4097 – 40GHz MWS
 - To be put on server for 4 weeks comments
- TM-4120 Technical report on MP-MP systems
 - Finalized, June Plenary for approval
- TM 4126/3 Addition of Multi-carrier systems to Conformance testing standard
 - Finalized, to be put on server for 4 weeks comments
- TM-4116 31GHz MWS
 - Inputs for February meeting
 - Tx output power requirements, Tx nominal output power
 - RF mask diagram, RX selectivity

WP4 - General Documents

- DEN/TM-4108 (technical report on circular polarization)
 - The report concerning the usage of the circular polarization in MP systems has been revised and it is ready for the TM4 approval
- DEN/TM-4115 (technical report on steerable antennas)
 - The report concerning the usage of steerable antennas in MP systems has been revised and it is ready for the TM4 approval

WP4 – <11GHz

- Revised EN 301 085 – 3-11GHz
 - To be produced by the ETSI secretariat
- DEN/TM 4133 –new WI for Steerable antennas 3 to 11GHz
- DEN/TM 4134 -new WI for Circular polarised antennas 1 to 11GHz

WP4 > 11GHz

- DEN/TM-4122 (revision of the 3-60 GHz PP antenna standard)
 - New Class 4 addressing frequency range 5, 30-47 GHz
 - Now the Class 3 refers to both the polarizations
 - Ready for the TM4 approval
- REN/TM-4132: New WI for new class 5 antennas in EN 300 833

R&TTE Directive

DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 9 March 1999

on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity

- Article 3.2:
 2. In addition, radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communication and orbital resources so as to avoid harmful interference.
- TM4 discussed the proposed solution to the issue of "Receiver Parameters" in radio harmonised standards, produced by ERM/TG18
- WG TM4 is more firmly convinced that receiver parameters of fixed radio systems (both point to point links and multipoint wireless access systems) are to be considered essential under article 3.2 of the R&TTE and their presence in EN 301 751 and EN 301 753 is fully justified.

Other issues - 1

- 802.16 – TM4 Server reflector
 - 802.16 should decide if wants to do it
 - Bernt Matsson, the TM4 Technical Officer, thinks that changes should be made in ETSI – IEEE Agreement (annex...) to permit the reflector functioning
 - 802.16 should come to the next TM4 Plenary with a clear opinion

Other Issues - 2

- BWIF (Broadband Wireless Internet Forum) Liaison
 - Invitation to the “Inaugural European Open Meeting” – London, this week
 - Asking for Liaison with ETSI TM4
 - WP2 chairman, Peter Kiddle, will go the meeting to understand what is the need for this Liaison
 - Present itself as:
 - program of the IEEE Industry Standards and Technology Organization IEEE-ISTO. The standard setting work of the Forum is based on utilising Vector Orthogonal Frequency Division Multiplexing (VOFDM), BWIF’s technology foundation for the development of fixed broadband wireless specifications. The BWIF-approved Version 1.0 Specifications have been available since late August 2000 to BWIF members.
 - Created confusion about standardization in IEEE

Other issues - 3

- Next Meetings:
 - 2001 1st interim meeting:
 - WP-1: 27 Feb. to 2 Mar. (ETSI)
 - WP-2: 27 Feb. to 2 Mar. (Vienna)
 - WP-4: 28 Feb. to 2 Mar. (Vienna)
 - 25th Plenary
 - 18-22 June 2001