

ETSI HiperMAN and TM4 Liaison Update

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BRAN and TM4 Liaison Update

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ETSI HiperMAN and TM4 Liaison Update

Marianna Goldhammer

802.16 Liaison Officer to ETSI HiperMAN and TM4

Alvarion

ETSI HiperMAN Status

- PHY
 - TS 102177 approved by VbC on November 3
 - 274 votes in favor, 14 companies, 100%
 - Still a problem of IPR licensing
- DLC (MAC)
 - TS 102178 approved by AbC – consensus- on September 18
- Profiles
 - TS 102 210 approved by AbC –consensus- on September 18

VbC = Vote by Correspondence

AbC = Approval by Correspondence

ETSI HiperMAN alignment with IEEE 802.16

- 802.16REVd-D1, OFDM mode, is aligned with HiperMAN
 - New carrier allocation, preambles, 16 sub-channels, UL/DL MAP, are already in 802.16REVd-D1 draft
 - HiperMAN will keep alignment with future 802.16d changes by publishing revisions
- IEEE should ask for ETSI copyright
 - 802.16REVd-D1 includes text from HiperMAN

ETSI HiperMAN – DLC testing

- 3 open Work Items for DLC (MAC) conformance testing
 - Protocol Implementation Conformance Statement (PICS) – to be finalized first
 - Test Suite Structure and Test Purposes (TSS & TP)
 - Abstract Test Suite (ATS)
 - Rapporteur: Gordon Antonello, Wi-LAN
- Specialist Task Force (STF) is funded by ETSI to do the work
 - Group Leader: Milan Zoric, ETSI PTCC

Co-operation 802.16 – ETSI for MAC conformance testing

- Question should be asked
 - same MAC
 - Conformance testing is focused on high level MAC, common to all PHY modes
 - STF specialists found 500 test cases!
 - automatic protocol conformance testing is necessary!
- Open question regarding colaboration

HiperMAN new Work Items

- Network Management for HiperMAN
 - Specification of an SNMP MIB covering basic Network Management for HiperMAN
 - Rapporteur: Vladimir Yanover, Alvarion
- 5.8 GHz Fixed Broadband Data Transmitting Systems; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
 - Actually not HM specific
 - Will cover all the system types
 - Co-operation with CEPT
 - Rapporteur: Barry Lewis, Radiant

Other HiperMAN issues

- Requested ETSI ERM and CEPT to analyze the UWB co-existence with HiperMAN CPEs, indoor mounted
- 5.8GHz European allocation for FWA – no news

TM4 status

- WI 4130 – to provide a multipart EN providing parameters for R&TTE compliance of FWA systems
 - This multipart EN will replace and supersede, after a suitable transition period (2 years?) the existing TM4 standards, mentioned by HEN 301 753
 - Part 1: Overview and Requirements for Digital Multipoint Radio Systems
 - Part 2: Harmonised EN covering the essential requirements of Article 3.2 of the R&TTE Directive for Multipoint Radio Equipment
 - Part 3: Harmonised EN covering the essential requirements of Article 3.2 of the R&TTE Directive for Multipoint Radio Antennas
- Last available drafts transferred to Roger for “private” 802.16 access

Examples of essential requirements

- Transmitted power
- Frequency stability
- Masks
- Transmitter / receiver spurious emissions
- Receive Sensitivity Level
- Co-channel / adjacent channel interference sensitivity
- Antennae:
 - gain, according to antenna class
 - radiation envelope, azimuth and elevation, co-polar and cross-polar

CPE antennae

- Only directional CPE antennae are allowed
 - Sharing problem, in 3.5GHz, with space-to-earth satellites
 - Self-installation of indoor FWA units not possible
- In order to allow indoor use of omni-directional antennae
 - Inputs to TM4 for showing the interference levels to:
 - Satellite receiver
 - Operators in adjacent channel
 - Request CEPT to study the co-existence
 - 802.16 Liaison to TM4?