Document Number:
IEEE L802.16-06/001r1
Date Submitted: Jan. 9, 2006

Source:
Mariana Goldhamer
Liaison Officer to ETSI BRAN
ALVARION
21a HaBarzel Street, Tel Aviv, Israel
Voice: +972 3 645 6241
mariana.goldhamer@alvarion.com

Venue:
Session #41, 9-12 January, 2006

Purpose:
BRAN Update

Notice:
This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

Release:
The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE’s name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE’s sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.

IEEE 802.16 Patent Policy:
The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures <http://ieee802.org/16/ipr/patents/policy.html>, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." 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 <mailto:chair@wirelessman.org> as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site <http://ieee802.org/16/ipr/patents/notices>.
ETSI BRAN Liaison Report – January 2006

Mariana Goldhamer
IEEE 802.16 Liaison Officer to ETSI
BRAN
Alvarion
HiperMAN PHY-DLC

• Approval of HiperMAN revision 1.3.1 standards:
  – HiperMAN PHY – TS 102 177 v1.3.1 – BRAN43d044r1 and of
  – HiperMAN DLC – TS 102 178 v1.3.1 - BRAN43d045r1

• Finalization according to planned dates
HiperMAN 1.3.1

• Can be used to provide:
  – Fixed applications, in frequencies below 11 GHz
  – Nomadic and converged Fixed-Nomadic applications, in frequencies below 6 GHz
• Harmonized with IEEE 802.16e – D12 and IEEE 802.16-2004 Corrigenda – D5
• PHY modes: OFDM and OFDMA
• DLC: includes hand-off
  – For load balancing and best C/(I+N)
• OFDMA PHY and most of the 802.16 MAC are included by reference
HiperMAN Testing

• Approval of the STF-252 work (BRAN43d047)
  – There are already 400 test-cases, 100 tests to be validated this year, due to the re-scheduling of the WiMAX waves
  – Joint work HiperMAN-WiMAX is progressing according to the plan
Fixed-Nomadic BWA SRDoc

• Draft ETSI TR 102 453-1 (BRAN43d041r1)
  – Approved by ETSI BRAN
  – Approval by ETSI ERM: scheduled this week
  – Main requests:
    • Amount of spectrum

<table>
<thead>
<tr>
<th></th>
<th>xDSL-like services</th>
<th>Triple play</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic spectrum</td>
<td>56MHz</td>
<td>120 MHz</td>
</tr>
<tr>
<td>Spectrum including in-band feeding for Relays</td>
<td>80MHz</td>
<td>140MHz</td>
</tr>
</tbody>
</table>
Fixed-Nomadic BWA SRDoc – Main Requests

• Identify how much new spectrum could be licensed immediately to operators in the frequency range 3.4-3.8GHz
  – In case that the amount of spectrum does not allow two operators to provide WDSL and wireless Triple Play services in fully licensed bands
    – Investigate the designation of more licensed spectrum to BWA in 3.8-4.2GHz

• ECC SE to extend the scope of the compatibility studies, in order to cover also the spectrum sharing in 3.8-4.2GHz
5.8GHz HEN

• Sent in Public enquiry
  – BRAN41d059

• Received comments to be resolved in the BRAN February – 2006 meeting
New Work Item – Personal Broadband data in 2.5-2.69GHz

• Doc. BRAN43d034r4
• Title:
  – BRAN;Personal Broadband data transmission systems in 2500 – 2690 MHz, Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive 1999/5/EC
• Scope:
  – To prepare a Harmonised EN covering the essential requirements for Broadband Data Transmitting System equipment operating in the frequency range 2 500-2 690 MHz.
  – This work will consider the channel arrangements and the requirements as defined in ECC/Dec(05)05.
ETS – IEEE Legal Issues

• Copyright for PHY/DLC – BRAN43d046r1
  – HiperMAN thanks for the copyright allowance for PHY
    • IEEE L802.16-05/054
    • to excerpt up to and including ten percent (10%) of the entirety of
      IEEE Std. 802.16™-2004 and its corrigendum and IEEE 802.16e
      amendment, for inclusion in the revision of the ETSI BRAN
      HiperMAN PHY standard
  – HiperMAN is composed of three documents:
    • PHY, DLC and Profiles
    • ask for clarification that this permission extends to the full
      HiperMAN standard, across the different specification documents.