

## IEEE 802 Wireless Meeting Summary – November 2007

- **802.11k** – *Radio Resource Measurement* – in sponsor ballot recirculation with draft 11; final approval expected February 2008
- **802.11n** – *High Throughput* – resolving comments on draft 3.0 in 5 parallel ad hoc committees – MAC, coexistence, PHY, beamforming, general; draft 4.0 is expected in March 2008; final approval expected at the end of 2008
- **802.11p** – *Wireless Access Vehicular Environment (WAVE)* – resolving comments on Draft 3.0; final approval expected in March 2009
- **802.11r** – *Fast Roaming* – in sponsor ballot recirculation with draft 9.0; standards board review and publication expected in May 2008
- **802.11s** – *ESS Mesh Networking* – 98% done with comment resolution on 1<sup>st</sup> WG letter ballot; final approval expected May 2009; chair of 11s is proposing to form a study group to work on VLANs in the mesh environment – “WLAN Segregated Data Services” SG; this group would have to coordinate with 802.1
- **802.11.2(T)** – *802.11 Test* – resolving comments from 1<sup>st</sup> WG letter ballot; final approval expected June 2009
- **802.11u** – *Interworking with External Networks* – Resolving comments; liaisons with IETF EMU (EAP Method Update) and 3GPP SA2; next joint meetings with 3GPP SA2 in February 2008 in Athens Greece; final approval expected September 2009
- **802.11v** – *Wireless Network Management* – in comment resolution on draft 1.08; making good progress; final approval expected October 09
- **802.11w** – *Protected Management Frames* – resolved all comments on draft 3.0; getting ready for sponsor ballot; RevCom Standards Board approval expected in march 2009
- **802.11y** – *3650-3700 MHz Operation* – draft 6 to go to recirculation sponsor ballot; final release expected June 2008
- **802.11z** – *Direct Link Setup (DLS)* – have first draft working to get contributions and improve the draft; DLS enables direct station to station communications without repeating all the traffic through an AP;
- **IMT AHC** – *IMT Advanced Ad Hoc* – developing proposal to ITU based on 802.16 for mobile interface and 802.11 for nomadic 1 Mbps low mobility interface; 802.18 is the interface between 802.11 and 802.16 to ITU to incorporate their standards into the IMT Advanced framework: consensus between 802.11 and 802.16 at 802.18 reached on most contentious points finalizing content of IMT.TECH (requirements) and IMT.EVAL documents to

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- have them brought back to 802.11 for approval and then to Executive Committee before submission to ITU, which is expected to happen in March 2008
- **VHT SG** – *1 Gbps Very High-Throughput Study Group* – formed in response to the IMT Advanced effort to develop a PAR and 5 criteria for standardizing 1 Gbps nomadic wireless interface; PAR and 5 Criteria to be completed in the January Taipei meeting; presentations on 60 GHz; Wi-Fi Alliance to provide use cases for VHT in the January meeting
  - **VTS SG** – *Video Transport Stream Study Group* – effort to produce PAR and 5 criteria; “Modified FCS/ARQ Behavior” joint review with 802. proposed passing MAC packets with errors up the protocol layers – little support for this at 802.1; will try to approve the PAR and 5 criteria in January in Taiwan
  - **QSE SG** – *QoS Extensions Study Group* – a study group to incorporate WMM into 802.11; conducted a poll that didn’t reveal much interest from the WG (only 50 responses); study group has adjourned and will not be renewed
  - **802.16i** – *Network Management* – draft 5 comments resolved
  - **802.16j** – *Relay* – goal is to extend the distance between CPE and base station; resolving comments on draft 1; sponsor ballot expected March 2008; approval in July 2008
  - **802.16h** – *3650-3700 MHz Operation* – resolving comments on draft 3
  - **802.16m** – *IMT Advanced mobile interface* – working on requirements document and evaluation methodology for 100 Mbps mobile wireless interface; SDD (system description document) and system requirements document (SRD) are the key documents under development; still working on the SDD
  - **802.18 RR TAG** – *Radio Regulatory TAG* – managing IMT Advanced effort for 802.11 and 802.16; looking at Japan MIC (ministry internal affairs) proposal for radio utilization fee applied to all wireless devices including WiFi; looking at EU changes to 5GHz regulatory requirements; as of 3/31/08 all products shipped to EU must meet EN301 893 document – specific radar detect patterns; detect staggered PRF radars in 5600-5650; detect 0.8 us pulses 5250-5350; 5470-5725 bands
  - **802.19 TAG** – *License Exempt Spectrum Operation* – discussing coexistence between 802.11y and 802.16h in the 3650 MHz band; working on 802.11y and 802.16h clear channel assessment energy detection (CCA-ED) methodology; continuing simulations of 11y and 16h protocol coexistence; reviewing coexistence assurance document process
  - **802.21** – *Media Independent Handover (MIH)* – handover between 802 and cellular technologies 3GPP, 3GPP2; initial sponsor ballot approval 65%; study groups include multi-radio power conservation, management and security signaling study group (Toshiba); 2<sup>nd</sup> sponsor ballot at Nov-07 session; working with 11u and 16m; 3GPP incorporating architecture of 802.21; DVB-H wants to be considered as an access technology supporting handovers; looking at WiMAX to LTE handover (3GPP document TR36.938); IMT Advanced will also become an interface and submitted requirements through 802.21 to 802.18

- **Wi-Fi Alliance** – *liaison report* – WFA is disappointed that QSE SG decided to terminate the PAR to harmonize WMM and 802.11e priority protocols; working on usage scenarios for VHT SG
- **IETF** – *liaison report* – EAP Method Update (EMU) [www.ietf.org/html.charters/emu-charter.html](http://www.ietf.org/html.charters/emu-charter.html); CAPWAP WGs; IETF ECRIT summary of liaison of 802.11 to IETF emergency Services Liaison
- **ISO/IEC JTC 1SC6** – *liaison report* – working on ballot resolution comments on joint collaboration between IEEE and ISO; USTAG JTC 1SC6 is meeting to recommend the US positions; next meeting in Geneva 2008; ballot on collaborative agreement between IEEE 802 and JTC 1SC6 will close in December; JTC 1SC6 plans to participate in sponsor ballot for 802.11y and contribute comments
- **TIA** – *Liaison report* – seeking comments on 802.11u; TR-41.4 VoIP Systems – IP Telephony Infrastructure and Endpoints currently in ballot resolution; requirements for a Wireless LAN based IP telephony
- **802.11-2007** Edition of the standard incorporating 802.11a, b, c, d, e, g, h, i and j was published in June of 2007. The following 9 amendments to this edition are now in progress: 802.11k, n, p, r, s, u, v, w, y and z.

For further detail on any of the above, please contact Fanny Mlinarsky  
[fm@octoscope.com](mailto:fm@octoscope.com), +1 (978) 376-5841.