

23-Jul-07

IEEE 802 Wireless Meeting Summary – July 2007

- **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 and y.
- **802.11k** – *Radio Resource Measurement* – has been forwarded to sponsor ballot; final approval expected December 2007
- **802.11n** – *High Throughput* – 3076 comments received on draft 2 with 1594 technical comments; 1200 technical comments remain to be resolved; expect draft 3.0 to be approved in the September 2007 interim meeting; final approval expected at the end of 2008
- **802.11p** – *Wireless Access Vehicular Environment (WAVE)* – entered 2nd WG (working group) letter ballot with Draft 3.0; final approval expected in March 2009
- **802.11r** – *Fast Roaming* – forwarded Draft 7 to sponsor ballot after a record of 5 recirculation ballots at the WG level; final approval expected March 2008
- **802.11s** – *ESS Mesh Networking* – resolving comments from 1st WG letter ballot; final approval expected May 2009
- **802.11.2(T)** – *802.11 Test* – resolving comments from 1st WG letter ballot; final approval expected June 2009
- **802.11u** – *Interworking with External Networks* – planning an ad hoc meeting jointly with 3GPP SA2 in Helsinki, Finland in August 2007; final approval expected September 2009
- **802.11v** – *Wireless Network Management* – released to 1st WG letter ballot with draft 1.0; final approval expected October 09
- **TGw** – *Protected Management Frames* – finished resolving comments; coexistence assurance letter written to 802.19 TAG (technical advisory group) detailing how orderly coexistence with other wireless networks will be accomplished
- **802.11y** – *3650-3700 MHz Operation* – resolved comments and going to Sponsor Ballot; coexistence assurance letter written to 802.19 TAG detailing how orderly coexistence with other wireless networks will be accomplished; final release expected March 2008
- **IMT AHC** – *IMT Advanced Ad Hoc* – 802.18 is the interface to IMT.TECH; 802.11 and 802.16 are both actively working with ITU to incorporate their standards into the IMT Advanced framework: 802.16 for mobile interface and 802.11 for nomadic 1 Mbps low mobility interface; spectrum requirements and FCC allocation to be discussed
- **VHT SG** – *1 Gbps Very High-Throughput Study Group* – related to the IMT Advanced effort; working on requirements and PAR (project authorization)

- request); PAR expected in November 2007; sent a liaison letter to the Wi-Fi Alliance requesting input on use cases for VHT
- **QSE SG** – *QoS Extensions Study Group* – a study group to incorporate WMM into 802.11; still working on PAR, which is expected in November 2007
 - **DLS SG** – *Direct Link Setup Study Group* – worked on PAR to enable direct station to station communications without repeating all the traffic through an AP; new chair elected (Menzo Wentink). DLS protocol currently exists in the 802.11e amendment, but it does not work with existing APs, which has been a barrier to deployment.
 - **802.16j** – *relay* – goal is to extend the distance between CPE and base station; sponsor ballot expected March 2008; approval in July 2008
 - **802.16m** – *IMT Advanced mobile interface* – working on requirements document and evaluation methodology; SDD (system description document) and system requirements document (SRD) are the key documents under development
 - **802.18 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
 - **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
 - **802.21** – *Media Independent Handover (MIH)* – comment resolution; as of today no disapprove votes; ready for sponsor ballot; draft 0.6 turning into draft 1 for sponsor ballot
 - **Wi-Fi Alliance** – *Liaison report* – certification of draft 802.11n 2.0 including mandatory WPA, WPA2, WMM and power save; 14 vendors certified in less than a month; goal is to work more effectively with 802.11; WFA (Wi-Fi Alliance) to provide validation of features; IEEE to use the WFA to provide input; VHT SG will ask WFA to provide user scenarios for VHT
 - **IETF** – *Liaison report* – EAP Method Update (EMU) www.ietf.org/html.charters/emu-charter.html; IETF ECRIT summary of liaison of 802.11 to IETF emergency Services Liaison; CAPWAP WG – documents revised
 - **ISO/IEC JTC 1SC6** – *Liaison report* – last meeting in April 2007 in China; 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

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