IEEE P802.11  
Wireless LANs

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| 802.11 TGaq Teleconference Minutes – July 1st, 2013 | | | | |
| Date: 2013-07-01 | | | | |
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Abstract

This document comprises the Minutes for the IEEE 802.11 Task Group aq (TGaq) teleconference held via teleconference on July 1st, 2013. Agenda is as follows:

1. Call to order, patent policy, attendance

2. Presentation "Discovery modes and Discovery Proxy of Web Services Discovery" [ETRI]

3. AOB

4. Adjourn

If you attended, please send attendance to either Stephen McCann or Yunsong Yang

(Stephen McCann: [mccann.stephen@gmail.com](mailto:mccann.stephen@gmail.com)

Yunsong Yang: [yangyunsong@huawei.com](mailto:yangyunsong@huawei.com))

Chair: Stephen McCann (RIM)   
Vice Chair: Yunsong Yang (Huawei Technologies)

Secretary: [position open]

Technical Editor: Dan Gal (Alcatel-Lucent)

**Call to order, patent policy, attendance**

Meeting called to order on Monday, July 1st, 2013 by TGaq Chair, Stephen McCann, at 10:00 am EDT.

The chair reviewed the meeting guidelines including the IEEE patent policy and call for patents. No such claims were made.

**Attendees: (please send corrections)**

* Stephen McCann
* Carl Kain
* Ed Reuss (Self)
* Jae-ho Lee (ETRI)
* Mike Lin (ITRI)
* Cheol Ryu (ETRI)
* Yunsong Yang (Huawei)
* Dan Gal (Alcatel-Lucent)
* Ping Fang (Huawei)

**Presentation**

**11-13-0700r0 Discovery modes and Discovery Proxy of Web Services Discovery - ETRI**

Cheol Ryu from ETRI presented this document.

Slide 3: Description of a managed mode.

Slide 4: Description of an ad-hoc mode.

Slide 5: AP cached the information of Service A and Service B. STA can change mode.

Slide 6: Recap of design options diagram

Slide 7: Summary of proposals

Question (Yunsong Yang): On slide 5, what is the difference between ad-hoc mode and managed mode?

Response: In ad-hoc mode, non-AP STA doesn’t have the knowledge that the AP has service proxy built in. So, the probe for service is sent in multicast UDP (over GAS). In managed mode, the non-AP STA knows the location of the service proxy. Therefore, the probe for service is sent in unicast UDP (over GAS).

Question (Mike Lin): On slide 7, what is the Hello message?

Response: The Hello message is already defined in WS Discovery. It is not a new message.

Comment (Ping Fang): On slide 5, if AP broadcasts all Hello messages, there will be too much PAM traffic.

Response: you are right.

Question (Ping): Is it possible for the AP just to push the service information without the non-associated STA to query them?

Response: Hello message is just for the non-AP STA to know what service is available.

Question (Ping): What information should the AP cache? The service information may be service-specific.

Response: don’t know exactly what AP should store in its database. It is service dependent.

Question (Ed Reusss): On slide 5, there is a concern that if one client is working in a high-density environment. Can we do passive only to avoid busy Probe traffic?

Response: See that sending PAM messages periodically is the solution for high-density environment.

Question (Mike): Hello is WS Discovery message. Bonjour and UPnP may use different message formats for Hello. How many different formats that the AP needs to deal with?

Response: Bonjour/UPnP has similar messages. Exact Hello message format may be different. It is not TGaq’s scope for these higher layer message formats. We should try to just provide a tunneling mechanism.

Stephen: invite Cheol to come back in Geneva meeting with more details. For example,

* How does the system work in high-density environment? How to handle the signaling load?
* Do all these messages work for Bonjour and UPnP? How does the higher layer use this information?
* Do you want AP to store all the information? Perhaps some upper limits.

Stephen: invite everyone to look into Bonjour and UPnP details.

Stephen: would like to look into the IEEE standards dictionary regarding 802.11aq definitions and terminology at the Geneva meeting as well.

**AOB**

None.

**Adjourn**

Hearing no objections, 802.11aq is adjourned at 10:50am EDT.