IEEE P802.11
Wireless LANs

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| TGaq Minutes - March 2015 Session |
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Abstract

This document contains the minutes of the TGaq session that was held during the March 2015 IEEE 802.11 Plenary meeting.

# Monday March 09, 16:01-18:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 16:01 local time in Berlin.
2. Agenda Review
	* 11-15/0233r1 is on the server.
	* Updated and approved Agenda as in 11-15/0233r2.
3. Review IEEE Patent Policy and Duty to Inform
	* Chair reads out the IEEE Patent Policy.
	* Chair asks if there are any essential patents - None indicated.
	* Chair reviews other guidelines.
4. Approval of minutes from January session – document 11-15/0209r0
	* Approved by unanimous consent.
5. Review of current status of TGaq
	* Reviewed closing report from January - document 11-15/0189r1. No changes are made.
6. Document R-cap/Editor’s Report
	* No official Editor’s report this time.
7. LB208 Status
	* Analysis of comments from D1.0 LB
		+ 702 comments (389 marked as “T” for technical)
	* Editorial Comments

SP: Do you support to assign all editorial comments to Technical Editor for proposing resolution?

Result: 15/0/0.

* + Technical comments
		- Technical Editor’s technical comments: 11-15/0273r0.
			* The general feeling is that submitting a large number of technical changes with a single comment like this should be discouraged.
			* Members pointed out that the technical comments are mixed with the editorial ones in document 15/0273r0, therefore cannot tell which comments are the technical ones. And no detailed reasons are provided for each change except a single general comment in CID 1242.
			* Therefore, the task group inclines to reject CID 1242. However, the technical editor are welcome to work with various volunteers offline to reflect the technical changes that he would like to see, so that his good works in document 15/0273r0 are not totally lost.

MOTION #1: Move to reject CID 1242 with the following resolution: “REJECTED: The comment did not provide sufficient detail to understand the issues.”

Moved: Graham Smith

Seconded: Mike Montemurro

Result: 10 – Yes, 0 – No, 1 - Abstain. Motion passes.

* + Schedule for this week
		- Assigning comments to volunteers as follows:

Clause 1 -> Emily Qi and Dan Gal

Clause 2 -> Stephen McCann

Clause 3 -> Stephen McCann

Clause 4 -> Stephen McCann

Clause 6 -> Emily Qi and Robert Slater

Clause 8 (excluding 8.3 and 8.4) -> Robert Slater

Clause 8.3 -> Robert Slater

Clause 8.4.2.1 -> SK Yong

Clause 8.4.2.26 -> Stephen McCann

Clause 8.4.2.92 -> Stephen McCann

Clause 8.4.2.171 -> SK Yong

Clause 8.4.2.172 -> SK Yong

Clause 8.4.2.173 (excluding CID 1463) -> SK Yong and Ping Fang

CID 1463 -> Payam TorabJahromi and Ping Fang

Clause 8.4.2.174 -> Yunsong Yang

Clause 8.4.4.20 -> Stephen McCann and SK Yong

Clause 8.4.4.21 -> Stephen McCann and SK Yong

Clause 8.4.4.22 -> Yunsong Yang

Clause 10.25.3.2.1 -> Stephen McCann

Clause 10.25.3.2.11 (excluding 10.25.3.2.11.3) -> Stephen McCann and SK Yong

Clause 10.25.3.2.11.3 -> Yunsong Yang

Clause 10.25.3.4 -> SK Yong

Clause 10.25.3.4.1 -> SK Yong

Clause 10.25.3.4.2 -> SK Yong

Clause 10.25.3.4.3 -> SK Yong

Clause 10.25.3.4.4 -> Yunsong Yang

Clause 10.25.3.4.5 -> SK Yong and Santosh Abraham

Annex B -> Emily Qi

Annex C -> Stephen McCann

Annex Za.1 -> Stephen McCann

Annex Za.2 -> Stephen McCann

Annex Za.3 -> SK Yong

Annex Za.4 -> SK Yong and Santosh Abraham

Miscellaneous -> Stephen McCann

1. The TG recessed at 17:40 local time in Berlin.

# Tuesday March 10, 16:00-18:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 16:01 local time in Berlin
2. Agenda Review
	* Added presentation of the following documents to the agenda
		+ 15/412r1
		+ 15/418r0
		+ 15/419r0
		+ 15/420r0
	* Approved the updated Agenda as in 11-15/0233r3

The Chair briefly gave an introduction of 11aq for the benefits of university students who are attending this session.

1. Comment resolution

Presentation of doc. 15/412r1 by Emily Qi (Intel)

* There is a comment that suggests removing “high-probability” from the description of Service Hint.
* There is a comment that suggests removing “using a compact representation of the service identifier(s)” from the description of Service Hash.

Presentation of doc. 15/418r0 by Emily Qi

* Yunsong Yang (Vice Chair) confirmed with Emily that she has addressed additional Type “E” CIDs related to Clause 1 in this document. Thus, the Vice Chair will update the assignment of those Type “E” CIDs in the comment database accordingly.

Presentation of doc. 15/419r0 by Robert Slater (Motorola Mobility)

* Yunsong pointed out that there are two CID #1626 under the abstract.
* Response: one of them should be CID #1625.
* Jouni (Qualcomm) questions why the contents in the Beacon frame and Probe Response frame are different. In principle, what are transmitted in the Beacon frames are also transmitted in the Probe Response frames.
* Robert: No problem with the principle. Will update the contribution and come back.

***Yunsong Yang, the TGaq Vice Chair acts as Chair while Stephen McCann is presenting the next document.***

Presentation of doc. 15/420r0 by Stephen McCann

Discussed the comments in the Miscellaneous Tab:

* CID 1324: accepted
* CID 1145: Revised- remove application definition. IEEE has definition of application
* CID 1146: submission is needed
* CID 1147: submission is needed
* CID 1148: Revised, See CID 1145
* CID 1149: Remove definition of service. IEEE 100 has definition of service.
* CID 1110: No resolution.
* CID 1155: left open.
* CID 1640: submission is needed. Re-assigned to Robert Slater.
* CID 1458: Revised
* CID 1461 & 1462: Commenter to provide submission
* CID 1410 – re-assigned to Stephen and accepted

Due to a lack of time, Stephen stops here and will come back to present the remaining CIDs and any updates on the CIDs that have already been presented.

***Stephen McCann resumes role as the Chair.***

1. The TG recessed at 18:00 local time in Berlin.

# Wednesday March 11, 8:00-10:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 8:03 local time
2. Review of Agenda
	* Added the following items to the agenda
		+ Secretary position situation
		+ Presentation of doc. 15/427r0
	* Open discussion on Supported ULP element (doc. 15/429r0) and on Probe Request and Service Hash/Hint
	* Approved the updated Agenda as in 11-15/0233r4.
3. Secretary position situation
	* The Chair would like to consider the position of TGaq Secretary is open due to the long-term absence of Dapeng Liu. The Chair would like to call for nominations for this position.

1. Presentation of doc. 15/427r0 by Yunsong Yang
* Clause 10.25.3.4.4 is empty and Clause 10.25.3.2.11.3 already addresses the same procedures. Don’t see the need of keeping this clause title.
* So, the proposed resolution is “ACCEPTED” for those comments that simply suggest the removal of this clause. For the other comments, the proposed resolution is “REVISED. Remove clause 10.25.3.4.4 due to duplication with clause 10.25.3.2.11.3 (ULP Encapsulation procedure).”
* There is no objection to the proposed resolutions.
1. Presentation of doc. 15/429r0 by Yunsong Yang
* Some critical CIDs related to ULP encapsulation are highlighted and discussed:
	+ E911 and NG911 don’t have a specific reference which documents is referenced or should be used. There is no reference or description for Location at all.
	+ There is a comment questioning the usefulness of Supported ULP element. One member felt that if the ULP encapsulation mode is not supported, this element is definitely not needed, and if the ULP encapsulation mode is supported, this element is helpful, but not a must-have.
	+ The group also discussed the pros and cons of the ULP encapsulation mode but couldn’t make a decision on it due to the absence of some key proponents of UL encapsulation.
	+ The group will discuss the ULP encapsulation again in May meeting.
1. Open discussion on Probe Request and Service Hash/Hint
* Using Probe Request/Response for PAD:

The group discussed the following potential issues:

Issue #1: The need of alignment between Probe Response and Beacon frames

Issue #2: Unnecessary Probe Response from legacy APs when in immediate search case or when the wildcard Probe Request is used

Issue #3: Repeated Probe Requests if the AP doesn’t respond due to a lack of service hash match

There is a suggestion of using a special MAC address used by 11aq APs to address issue #2, so that only 11aq AP will respond. SK Yong (Apple) volunteers to work on the solution to address the legacy AP issue (11aq service address) by May meeting.

* Service Hash/Service Hint

The group discussed the following potential issues:

Issue #1: It is not clear when to use Service Hash and when to use Service Hint in the Beacon frames.

Issue #2: The Service Hint bitmap should be in the Probe Response frames if it is in the Beacon frames. But a STA may not be interested in the bitmap, as the STA only queries its interested services with the Service Hash element. So, the Service Hint bitmap in the Probe Response may be wasteful.

Issue #3: The Beacon frame is already crowded (about 0.5msec long). Adding service information in the Beacon frame may be too much.

Some members felt that the Service Hint bitmap should be used in the Beacon and broadcasted Probe Response, and the Service Hash is only in unicast frames. Some members felt that it depends on the deployment.

An open question for the group to consider: what is the right size of the Beacon and the related IEs?

1. Comment Resolution
2. The TG recessed at 9:44 local time.

# Wednesday March 11, 13:30-15:30

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 13:32 local time
2. Agenda Review
	* Presentation of doc. 14/1262r2 is postponed to May meeting.
	* Add CID 1058 and presentation of doc. 15/419r1 under Comment Resolution
	* Approved the updated Agenda as in 11-15/0233r5.
3. Comment Resolution

CID 1058 is re-assigned to Mike Montemurro (BlackBerry)

Presentation of doc. 15/419r1 by Robert Slater

* Yunsong (Vice Chair) confirmed with Robert that he has addressed additional CIDs as shown in the Abstract of this document. Thus, the Vice Chair will update the assignments of those CIDs in the comment database accordingly.
* For the comment resolutions, two types are suggested: ACCEPTED or REVISED.
* Yunsong will work with Robert to identify which ones should be ACCEPTED and which ones should be REVISED.

***Yunsong Yang, the TGaq Vice Chair acts as Chair while Stephen McCann is presenting the next document.***

Presentation of doc. 15/420r1 by Stephen McCann

* CID 1491 - suggest the comment be accepted. No objection
* CID 1609 and 1612 - Request submission from commenter. No objection
* CID 1150 - Change the definition of service discovery.

The updated text is captured in document 11-15/420r2.

***Stephen McCann resumes role as the Chair.***

Plan for tomorrow:

We have a number of documents and comment resolutions ready for approval by motion tomorrow. The question is whether we should motion to approve these documents individually or together. Yunsong (Vice Chair) volunteered to collect all the CIDs that these documents have addressed in a new spreadsheet document so that we can motion to approve them together. There is no objection to this approach.

1. The TG recessed at 15:10 local time.

# Thursday March 12, 16:00-18:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 16:02 local time
2. Agenda Review
	* Added presentation of doc. 15/321r3
	* Added motion of doc. 15/450r1
	* Approved the updated Agenda as in 11-15/0233r6.
3. Presentation of doc. 15/321r3 by Yunsong Yang
* Discussed the revision history of the document that lead to r3
* An r4 vesion will be issued if the Motion to approve resolution for the discussed comments

Status of the comment resolution:

* 1 (Technical) is already resolved on Monday (with Motion #1)
* 73 (Technical) are ready for motion today
* 152 are pure editorial to be addressed by Editor
1. Presentation of doc. 15/450r1 by Yunsong Yang
* The spreadsheet documents the resolutions for comments that are addressed by doc. 15/412r1, 15/418r0, and 15/419r4, and the resolutions for comments in doc. 15/427r0 and 15/420r2 that are ready for motion.
* Walked through each tab. No change is made.

MOTION #2: move to accept all the CID resolutions in document 11-15-0450r1

Moved: Yunsong Yang

Seconded: Robert Slater

Result: 7 – Yes; 0 – No; 0 – Abstain. Motion passes.

The TGaq LB comment resolution motion deck document is updated as 11-15/417r1 with the results.

1. Timeline
* Recirculation Ballot: changed to July 2015.
* Initial Sponsor Ballot: changed to January 2016
* Sponsor Ballot Recirculation: changed to May 2016.
1. Teleconferences
* Every Friday 9am PT for 1hr., starting from March 27th, excluding the Good Friday holiday and the Friday immediately before the Vancouver meeting.
1. Preparation for May 2015 Interim Session
* 10 time slots, room for 30.
1. AOB: none.
2. Meeting Adjourned at 16:50 local time in Berlin.