IEEE P802.11  
Wireless LANs

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| TGaq Minutes - May 2015 Session | | | | |
| Date: 2015-05-14 | | | | |
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Abstract

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

# Monday May 11, 13:30-15:30

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 13:30 local time in Vancouver.
2. Agenda Review
   * 11-15/0491r2 is on the server.
   * Added items to Monday PMWill2 and Tuesday AM1 sessions
   * Updated and approved Agenda as 11-15/491r3.
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 previous meeting minutes
   * Approval of minutes from March session – document 11-15/0477r0.
   * Approved by unanimous consent.
   * Approval of minutes from March-April Teleconference – document 11-15/0497r1.
   * Approved by unanimous consent.
5. Review of current status of TGaq
   * Reviewed closing report from March - document 11-15/0456r0. No changes are made.
6. Document R-cap/Editor’s Report
   * D1.1 Editorial comments from March 2015
   * D1.2 Approved technical comments form March 2015
   * Editorials which are now technical (321r6)
     + CID 1011: resigned to Annex Za.1 Tab
     + CIDs 1372 and 1649: resigned to Clause 3 Tab
   * Will revisit the remaining 3 editorial comments later (requiring editing tools).

MOTION #3: Move to accept all the comment resolutions in “Vancouver Editorial 1” tab in document 11-15-0321r6.

Moved: Yunsong Yang

Seconded: Alan Zeleznikar

Result: 8 – Yes, 0 – No, 0 – Abstain. Motion passes.

It was brought to the attention that the Seconder of Motion #3 is not an 802.11 WG Voting member.

SP: Do you wish that the mover and seconder of TGaq motion are 802.11 voting members?

Result: 3 – yes, 2 – no.

1. Letter Ballot
   * Continuation of analysis of comments from D1.0 LB208
     + 482 comments remaining open.
2. Presentation
   * Doc. 11-15/641r0 by SK Yong (Apple)

CID 1588 and 1517: Resolution: Revised. Change the sentence in 8.4.4.20 from “The procedure used for this element is described in clause 10.25.3.2.11.1.” to “The use of this element is described in 10.25.3.2.11.1”.

CID 1587: agreed that the procedural description should not be in Clause 8. The question being debated is whether referencing to Clause 10 in Clause 8 is useful.

SP: Whether Clause 8 should be referencing Clause 10?

Result: 5 – yes, 1 – no.

1. The TG recesses at 15:30 local time in Vancouver.

# Monday May 11, 16:00-18:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 16:01 local time in Vancouver.
2. Agenda Review
   * The Agenda is as in 11-15/491r3. No changes are made.
3. Comment resolution

* Presentation of 15/641r0 by SK Yong (continued)

CID 1587: Resolution: Revised.

Replace the sentence” The Service Information Request ANQP-element is sent by the non-AP STA to the AP and used to request service information. It is included in a GAS Query Request.”

With

“The service information Request ANQP-element contains the request for service information associated with a given service name.’

CID 1516: OK.

CID 1439: OK. Understood that the maximal query length is increased with the changes.

CID 1346: Change the resolution to Revised. The Service information Query Request length field was removed. See resolution for CID# 1439.Note that D1.2 has renamed this field.

CID 1335: Deleted the stroke-out letters. The last column changed to “—“.

CID 1278: Modify the reason for rejection to ”There is no need to have Service Name to contain service hash”.

At this point, SK has to leave. He will continue the presentation of 641r0 tomorrow.

* Presentation of 11-15/321r6 “Miscellaneous” Tab by Stephen McCann (BlackBerry)

CID 1462: Resolution: Revised. Replace AP with “AP or PCP” where it is not a “non-AP STA”.

CID 1461: Resolution: Rejected. There is no specific proposal of what to change in the existing draft to address the comment.

CID 1458: leave open for requiring further submission (consider ANQP-SD server).

CID 1155: Revised. Replace “Discovery of services offered by an infrastructure network, prior to association.” With “Discovery of services offered by an infrastructure network without the need for association.”

CID 1147: leave open (same as CID 1458).

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

# Tuesday May 12, 8:00-10:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 8:03 local time
2. Review of Agenda
   * The Agenda is as in 15/491r3. No changes are made.

Editor’s report:

* TGak is considering having a F2F Ad-Hoc meeting in Kauai before the Big Island meeting.
* The three remaining editorial comments can’t be fixed by using Framemaker either.

1. Comment Resolution

* Presentation of 11-15/641r1 by SK Yong (continued)

CID 1277: Resolution: Rejected. There is no need for the query (e.g. key-value query) to include a service hash since the key-value query is associated with a given service name.

CIDs 1276 and 1247: Resolution: Revised. Remove ", such as key-value query".

CID 1275: Rejected. Service name is a distinct from service information query request.

CID 1273: Resolution: Rejected. The Service Information Request ANQP-element is meant to provide detailed information after early basic discovery. Enabling wildcard search in Service Information Request ANQP-element will trigger a lot of unnecessary traffic. Please note that application will look for specific service(s) rather than blindly running a wildcard search for all services and its detailed.

The document is updated to 11-15/641r2. Plan to approve it on Wednesday.

* Presentation of 15/646r0 by SK Yong

CID 1518: Change resolution to Revised. Change the following sentence in 8.4.4.21 from “The Service Information Response ANQP-element is used to provide detailed service information between STAs, using the GAS protocol, in response to a Service Information Request ANQP-element. The Service Information Response ANQP-element is included in a GAS Query Response, sent by the AP to the non-AP STA." to “The Service Information Response ANQP-element contains the detailed service information in response to a Service Information Request ANQP-element."

CIDs 1311, 1177, 1520, 1565: Changed the resolution to Revised. Change the following sentence in 8.4.4.21 from “The Service Information Query Response field is a variable length field. The format of the Service Information Query Response is service-specific that contains requested service information.” to “The Service Information Query Response field is a variable length field. The content of the Service Information Query Response field is service-specific based on the requested service information and is not specified in this standard.”

CID 1279: Changed the resolution to Revised. Each subfield has been defined for the Service Information Response ANQP-element. Keep the terms Service Information Query Response in order to differentiate from GAS query for layering purposes. For the same reason, replace "Service Information Query" in D1.2 with "Service Information Query Request", throughout the document.

CID 1280: Rejected.

CID 1281: re-assigned to Clause 10.25.3.2.11.3 Tab (Yunsong) as the text change also has impact on 10.25.3.2.11.3.

CID 1336: Changed the resolution to Revised. Similar to the resolution to CID 1335.

CID 1347: OK. Reason added.

CID 1397: OK.

* Discussion on remaining editorial comments

CID 1562: Rejected: This is not practical either with MSword or Framemaker.

CID 1547: Rejected: This does not affect the quality of the final document.

CID 1049: Rejected: This is not practical either with MSword or Framemaker.

CID 1676 (re-assigned from 8.4.4.20 to Editorial): Revised: replace "service-specific query" with "the service-specific query". Note: key-value query has been removed from the document per resolution to CID 1276.

1. The TG recessed at 10:00 local time.

# Tuesday May 12, 16:00-18:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 16:00 local time
2. Agenda Review
   * Approved the updated Agenda as in 11-15/491r4.

Discussion of possible AH-Doc meeting before July meeting

1. Comment Resolution

* Presentation of 11-15/646r0 by SK Yong (continued)

CIDs 1310, 1441, 1564: Change resolution to “Revised”, otherwise, OK.

CID 1519: OK.

CID 1566 and 1590: Change “usage” to “use”, change “Counter” to “Revised”.

CID 1589: This CID is same as CID 1518. Group it with CID 1518 with the same resolution.

CID 1440: Postponed the resolution as more work is needed. Need to consider revising the REVmc text regarding the ordering of Info IDs in an ANQP Query Request or ANQP Query Response (the order in the Query Response should be corresponding to the order in the Query Request).

Will update the document to 11-15/646r1 without CID 1440 before approval.

* Presentation of 11-15/656r0 by SK Yong

CIDs 1628, 1399, 1362, 1356: Changed the resolution to Revised.

In the table, use <ANA> in the “Element ID Extension” column for Service Advertisement element and Support ULP element. All 4 elements are not extensible.

CID 1505: Rejected. The text follows the same style of the base standard for ANQP advertisement protocol ID.

CID 1504: OK.

CID 1395: Rejected. Service Hint and Service hash elements may be in the beacon frame at the same time. Hence, the proposed changes will incur additional complexity by having two elements with same ID in a single frame.

Will update the document as 11-15/656r1 before approval.

* Motion on remaining editorial comments

It is commented that the note in the resolution for CID 1676 in “Vancouver Editorial 2” Tab in 11-15/321r8 is not appropriate as it speculates on the approval of the resolution to CID 1276. Thus, remove the note (the resolution itself is still OK). The comment spreadsheet is updated as 11-15/321r9 with this change.

Motion #4: Move to accept all the comments resolutions in “Vancouver Editorial 2” tab in document 11-15-0321r9

Moved: Yunsong Yang

Seconded: SK Yong

Result: 5 – Yes, 0 – No, 0 – Abstain. Motion passes.

* Presentation of 321/r9 by Stephen McCann

CID 1441 (in Miscellaneous Tab): Rejected. There is no reason to change the title of the amendment. The amendment does not preclude the use of this mechanism post association.

CID1410 (in Clause 10.25.3.4.3 Tab): Accepted.

CID 1612 (in Miscellaneous Tab): Rejected: more detail about the proposed change is required from the commenter.

CID 1609 (in Miscellaneous Tab): Rejected: more detail about the proposed change is required from the commenter.

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

# Wednesday May 13, 8:00-10:00

### Yunsong Yang, Huawei Technologies (TGaq Vice Chair) – Chair

Michael Montemurro (BlackBerry) volunteered to keep the meeting minutes for this session.

1. Meeting called to order at 8:03 local time
2. Agenda Review
   * The Agenda 11-15/491r4 is on the server.
   * Add document 11-15/663r0.
   * Approved the updated Agenda as in 11-15/0491r5.
3. Comment Resolution
   * Status update
     + Comment spreadsheet document has been posted as document 11-15/321r10
     + The intention is to approve “Vancouver Miscellaneous” Tab in this document during the PM1 session.
   * Discussion on document 11-15/663r0 by Yunsong Yang (Huawei)
     + This document shows the effects on the 11aq D1.2 if we remove ULP encapsulation mode.
     + If we accept this document we need to update all comments on the topic with the resolution pointing to this accepted submission.
   * Discussion on “Clause 8.4.2.171” tab on document 11-15/321r10
     + CID 1214 – Resolve comment as Accepted.
     + CID 1088 – Resolve comment as Accepted.
     + CID 1490 – Resolve comment as Accepted.
     + CID 1484 – Resolve comment as Accepted.
     + CID 1508 – Resolve comment as Accepted.
     + CID 1506 – Resolve comment as “Revised. Keep the element name as is. Replace the sentence “The Service Hint element contains information identifying services that are supported by an AP.”, under the clause title, with “The Service Hint element contains a Bloom filter that provides a probabilistic representation of a set of services.”
     + These resolutions will be posted in document 11-15/321r11 on a new tab.
4. The TG recessed at 8:55 local time until PM1.

# Wednesday May 13, 13:30-15:30

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 13:30 local time
2. Agenda Review
   * Agenda 11-15-0491r5 is on the server.
   * Added presentation of documents 11-15-0667r1, 11-15-1672r0, and 11-14-1262r3.
   * Approved the updated Agenda as in 11-15-0491r6.
3. There will be an extra TGaq session on Thursday PM1.
4. Ad-Hoc

Presentation of 11-15-0667r1 by Donald Eastlake (Huawei)

* + TGak is considering a F2F Ad-Hoc meeting before July meeting
  + Venue: Kauai Beach Resort, HI
  + Possible Dates: July 8-10.
  + Will run SP on Thursday to see if people want to have a F2F Ad-Hoc meeting.

1. Motion on documents
   * 11-15/641r4, 11-15/646r1, and 11-15/656r1

Motion #5: Move to approve documents:

* 11-15-0641r4
* 11-15-0646r1
* 11-15-0656r1

and request the TGaq technical editor to incorporate them into the next TGaq draft.

Moved: SK Yong

Seconded: Paul Lambert

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

* 11-15/321r11 “Vancouver Miscellaneous” Tab

Motion #6: Move to accept all the comment resolutions in the “Vancouver Miscellaneous” tab in document 11-15-0321r11

Moved: Yunsong Yang

Seconded: Dan Gal

Result: 8 – Yes, 0 – No, 0 – Abstain. Motion passes.

With these results, the motion deck document is updated to 11-15/417r4.

1. Comment Resolution
   * Presentation of 11-14/1262r3 and 11-15/672r0 by Paul Lambert (Marvell)
     + Slide 6: Comment: XORing should be ORing.
     + Comment: there are two “i” representing different things in the clause 10.25.3.4.4. (Resolution: delete the i-th from i-th service)
     + Comment: question about if the different chunks of SHA-256 are independent.
     + Response: Yes.
     + Comment: this is easier to generate and more efficient than CRC.
     + Comment: The first part of the proposal is more interesting. The second part, sequential Bloom filter, requires the receiver to track the history and also prolongs the time of scanning for a service, thus less attractive.
     + Paul will come back and update the documents without the sequential Bloom filter part.
   * Discussion on “Clause 8.4.2.171” tab on document 11-15/321r11
     + CID 1415: ACCEPTED.
     + CID 1234: REJECTED. The clause numbers are assigned using number alignment spreadsheet.
     + CID 1396: Rejected. Service Hint and Service Hash elements may be included in the beacon frames. Hence, the proposed change will incur additional complexity by having two elements with the same ID in the single frame.
     + CID 1664: REVISED. Accept the principle suggested by the commenter, except that "Basic Service Information Descriptor" is used only as a field.
     + These four CIDs will be moved to “Vancouver 8.4.2.171” Tab for motion on Thursday.
2. The TG recessed at 15:30 local time.

# Thursday May 14, 10:30-12:30

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 10:32 local time
2. Agenda Review
   * Agenda 11-15/491r6 is on the server.
   * Add doc. 11-15/663r0 and two motions.
   * Approved the updated Agenda as in 11-15/491r7.
3. ULP Encapsulation
   * 11-15/663r0
     + No further questions or changes.
   * The Chair has sent out an e-mail soliciting inputs for keeping the ULP encapsulation. The deadline is Thursday 9 am PDT. No e-mail or inputs received by 9am PDT.

Motion #7: Move to accept all the comment resolutions in the “Vancouver ULP” tab in document 11-15-0321r12

Moved: Yunsong Yang

Seconded: Mike Montemurro

Result: 9 – Yes, 0 – No, 0 – Abstain. Motion passes.

Motion #8: Move to accept all the comment resolutions in the “Vancouver 8.4.2.171” tab in document 11-15-0321r12

Moved: Yunsong Yang

Seconded: Dan Gal

Result: 9 – Yes, 0 – No, 0 – Abstain. Motion passes.

1. Comment Resolution

* Discussion on “Clause 8.4.2.172” tab on document 11-15/321r11 (by SK Yong)
  + - CID 1342: REVISED. Change the text to read "The Service Advertisement element identifies a list of services, advertised by an AP."
    - CID 1261: Accepted.
    - CID 1437: REVISED. Change the text to read "The Service Advertisement element identifies a list of services, advertised by an AP."
    - CID 1122: Leave open. Need further submission from SK to explain how a STA will use the Advertisement ID.
    - CID 1164: Revised. Replace the below sentence in line 25 "The Service Name field is a UTF-8 encoded string with a maximum length of 63 bytes." with the below text "The Service Name field is a UTF-8 encoded string with a minimum length of 1 octet and a maximum length of 63 octets."
    - CID 1264: Rejected. Basic represents only s a small set but essential information to identify a service. It needs to be distinguished from detailed service information.
    - CID 1266: REVISED. Replace "developer-specified name" to "vendor specific name".
    - CID 1344: REVISED. Replace the following sentence in line 24, "The Service Name Length field is the length of the Service Name field." with "The Service Name Length field contains the length of the Service Name field in octets."

Motion #9: Move to accept all the comment resolutions in the “Vancouver 8.4.2.172” tab in document 11-15-0321r14

Moved: Yunsong Yang

Seconded: Dan Gal

Result: 8 – Yes, 0 – No, 0 – Abstain. Motion passes.

The TGaq LB comment resolution motion deck document is updated as 11-15/417r5 with these results.

* Presentation of 11-14/1263r4 by Paul Lambert
  + Shown the update of figures that would be in 11-14/1263r4.
  + Paul will post 11-14/1263r4 later.

1. The TG recessed at 12:14 local time until PM1.

# Thursday May 14, 13:30-15:30

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 13:32 local time
2. Agenda Review
   * Agenda is as in 11-15/0491r7. No changes.
3. Ad-Hoc
   * TGak: will have 2-day F2F Ad-Hoc meeting in Bay area.

SP1: Do we feel an Ad-Hoc meeting is necessary?

Result: 4 – Yes, 0 – No.

SP2: Big Island or Bay Area?

Result: 2 – Big Island, 1 – Bay Area.

Resolution: TGaq will have a whole-day Ad-Hoc meeting in Big Island on July 12th, 2015

Motion: Move to authorize a TGaq ad-hoc on Sunday, July 12 2015 in Waikoloa, Hawaii, for the purpose of comment resolution preparation.

Moved: Dan Gal

Seconded: Yunsong Yang

Result: 3 – Yes, 0 – No, 2 – Abstain. Motion passes.

1. Comment Resolution
   * Clause 8.4.2.173 Tab in 11-15-0321r14
     + CID 1171: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + CID 1172: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + CID 1173: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + The resolutions to these 3 CIDs are consistent with the removal of ULP encapsulation.
     + CID 1215: REVISED. Replace the sentence "The Service Hash Value field contains one or more Service Hash Values." with "The Service Hashes field contains one or more Service Hash subfields. Each Service Hash subfield contains the first 6 octets of the SHA-256 hash of a service name value." In Figure 8-576e, replace "Service Hash Value" with "Service Hashes".
     + CID 1236: REVISED. Both elements can be present in the same Beacon. Add the following sentence at the end of the first paragraph under 10.25.3.4.2: "For a given service, either the Service Hash element or the Service Hint element is used to advertise the service in a Beacon frame, but not both."
     + CID 1246: REVISED. Change the size of Service Hashes field in Figure 8-576e to "Variable". Note that the Service Hash subfield length is described in the resolution to CID 1667.
     + CID 1269: REJECTED. There is already a limit posted by the maximal size of an information element (e.g. 254 octets).
     + CID 1270: REJECTED. The Service Hash element is transmitted in the Beacons.
     + CID 1271: REJECTED. Service Hash element can be used in Beacons for advertising a service.
     + CID 1272: REVISED. In Figure 8-576e, replace "Service Hash Value" with "Service Hashes".
     + CID 1667: Same resolution as CID 1215.
   * Clause 8.4.4.21 Tab in 11-15-0321r14
     + CID 1678: ACCEPTED.
     + CID 1679: Revised. Change the following sentence in 8.4.4.21 from "The Service Information Query Response field is a variable length field. The format of the Service Information Query Response is service-specific that contains requested service information." To "The Service Information Query Response field is a variable length field. The content of the Service Information Query Response field is service specific based on the requested service information and is not specified in this standard."
       - Note to Editor: this resolution differs from the resolution to CIDs 1311, 1177, 1520, and 1565 by a lack of a “-“ between “service” and “specific”. Editor should implement this one.
       - Will include these CIDs into a new “Vancouver 2015-5-14” Tab in 11-15/321r15 for motion.
2. The TG recessed at 15:30 local time.

# Thursday May 14, 16:00-18:00

### Stephen McCann, BlackBerry – Chair

1. Meeting called to order at 16:00 local time
2. Agenda Review
   * Agenda on the server is 11-15/497r7.
   * Approved the updated Agenda as in 11-15/497r8.
3. Teleconferences

* Friday 9am PT for 1hr., on May 22, May 29, June 5, June 19, June 26 before the Vancouver meeting.

1. Comment resolution
   * Clause 3 Tab in 11-15-0321r15
     + CID 1079: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + CID 1085: ACCEPTED.
     + CID 1086: ACCEPTED.
     + CID 1210: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + CID 1211: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + CID 1374: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + CID 1375: ACCEPTED.
     + CID 1501: REVISED. Incorporate the changes in Doc. 11-15/663r0.
     + These resolutions are consistent with the removal of ULP encapsulation.
     + Will add these CIDs into “Vancouver 2015-5-14” Tab in 11-15/321r16 for motion.
2. Motions

MOTION #10: Move to accept all the comment resolutions in the “Vancouver 2015-5-14” tab in document 11-15-0321r16

Moved: Yunsong Yang

Seconded: Dan Gal

Result: 4 – Yes; 0 – No; 1 – Abstain. Motion passes.

The TGaq LB comment resolution motion deck document is updated as 11-15/417r6 with the results.

1. Presentation

None.

1. Timeline

* No changes.

1. Preparation for July 2015 Plenary Session

* 10 time slots, room for 30.

1. AOB: none.
2. Meeting Adjourned at 16:30 local time in Vancouver.