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<th>Project</th>
<th>IEEE 802.16 Broadband Wireless Access Working Group <a href="http://ieee802.org/16">http://ieee802.org/16</a></th>
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<tr>
<td>Title</td>
<td>Session #47 802.16 Relay TG Minutes</td>
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<td>Date</td>
<td>2007-02-08</td>
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<tr>
<td>Source(s)</td>
<td>Jung Je Son Samsung Electronics</td>
</tr>
<tr>
<td>Voice:</td>
<td>+82 31 279 5098</td>
</tr>
<tr>
<td>Fax:</td>
<td>+82 31 279 5130</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:jungje.son@samsung.com">mailto:jungje.son@samsung.com</a></td>
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<td>Re:</td>
<td>IEEE 802.16 Relay Task Group Session #47 Minutes (London, UK)</td>
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<tr>
<td>Abstract</td>
<td>Task Group document on the 5th Task Group Session Minutes</td>
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<td>Purpose</td>
<td>To record minutes of the IEEE 802.16 Relay Task Group meetings at Session #47.</td>
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<td>Notice</td>
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Session #47 802.16 Relay Task Group Minutes
Jung Je Son

Monday, January 15, 2007

3:45pm Session called to order and opened by Chair, Mitsuo Nohara; Vice Chair, Peiying Zhu, Editor, Mike Hart and Editor, Jung Je Son acting as Secretary.
Chair presented the introduction, 802.16j-07/002, reviewing the work of last meeting, the objectives of 5th Relay Task Group meeting and agenda.

3:50pm Motion to approve the agenda.
Moved by: I-Kang Fu
Seconded by: Itzik Kitroser
Approved with no objection

3:50pm Motion to approve #46 meeting minutes, IEEE 802.16j-06/033
Moved by I-Kang Fu
Seconded by: Jerry Sydir
Approved with no objection

Chair discussed the list of contributions and mapping to topics and category and time table for session.
Chair presented the plan to handle the contribution by facilitating parallel sessions and discussed the time table for parallel sessions.
Contribution C802.16j-07/019 and C802.16j-07/20 were moved to measurement session, contribution C802.16j-07/144 and C802.16j-07/28 were moved to network entry session.
C802.16j-06/247 was withdrawn.

4:55pm Break
5:20pm session resumed. The chair presented and discussed the plan to handle the session by facilitation ad-hoc for each topic and leader of ad hoc. Ad hoc sessions were planned to be held for all days of Tuesday and Wednesday.
The chair reviewed the schedule for relay TG and presented the plan to reschedule based on the result of #47 meeting.
5:30pm session recessed for dinner.

7:20pm session resumed. Presentations of contributions relating to Relay concepts were held.
C802.16j-06/160r1, C802.16j-07/006, C802.16j-07/96 were presented.
C802.16j-07/160 was not presented as author was absent.

8:55pm Presentations and discussion of contributions on security were held.
S802.16j-07/069, C802.16j-07/075, C802.16j-07/134, C802.16j-07/098 and C802.16j-07/149 were presented and discussed. During discussion on security issue, there was discussion about the need to launch security ad-hoc.

10:20pm session recessed.
Tuesday, 16 January, 2007
8:00am Ad hoc sessions were held.
9:52pm The wrap-up session of the ad-hoc meetings for the day was held.
Each ad-hoc summary was presented by the ad-hoc chair.
Also the schedule for the next day was presented by the chair and confirmed.
10:30pm Session was recessed.

Wednesday, 17 January, 2007-01-18
8:00am Ad hoc sessions were held.
5:25pm The wrap-up session of the ad-hoc meetings for the day was held.
Each ad-hoc summary was presented by the ad-hoc chair. The schedule for the next day was presented by the chair and confirmed.
6:10pm Session was recessed.

Thursday, January 18, 2007
8:50am The chair called to order the session.
Evaluation Methodology contributions were presented.

There was summary and discussion of contributions about relay concept.
C802.16j-07/006r1 was deferred to next meeting for submitting update contribution including mechanism in detail enabling the concept.
C802.16j-06/160 was deferred to next meeting for submitting update contribution to resolve concerns.
C802.16j-07/096 was request to consider at TG as being annex, informative text.

There was summary and discussion of contributions about security
Security Issues were moved to further discussion with facilitating Forum Discussion.

There was summary and discussion of contributions about ad hoc sessions.

10:00am coffee break
10:17am session was resumed.

There was summary and discussion of contributions about ad hoc sessions.
Among contributions about frame structure, C802.16j-07/135r2, C802.16j-07/109r2, C802.16j-07/136r3 and C802.16j-07/023r2 were listed to be voted at afternoon session.
Among contributions about network entry, C802.16j-07/001r4, C802.16j-07/97Rev, C802.16j-06/274r6, C802.16j-07/126r1 and C802.16j-07/24r2 were listed to be voted at afternoon session.
Among contributions about bandwidth request, C802.16j-07/39r3, C802.16j-07/011r3 and C802.16j-07/042r1 were listed to be voted at afternoon session.
Among contributions about construction of MAC PDUs, C802.16j-07/09r2 was listed to be voted at afternoon session.
Among contributions about PHY related issues, C802.16j-07/014, C802.16j-07/080r1 and C802.16j-07/124r1 were listed to be voted at afternoon session.
Among contributions about measurement & reporting, C802.16j-07/138r1, C802.16j-07/043r3 and C802.16j-07/020r5 were listed to be voted at afternoon session.

Among contributions about mobility management, C802.16j-07/047r2, C802.16j-07/036r1, C802.16j-07/139, C802.16j-07/044r1, C802.16j-07/035r1, C802.16j-07/030 and C802.16j-07/005r3 were listed to be voted at afternoon session.

Among contributions about HARQ, C802.16j-07/002r1 and C802.16j-07/029r were listed to be voted at afternoon session.

Among contributions about Routing and Path management, C802.16j-07/048r5 was listed to be voted at afternoon session.

11:50am session recessed with announcement each revised contributions for consideration in Task Group meeting should be submitted by 1:00pm and session would be resumed from 2:00pm

2:00pm Chair called to order session.

C802.16j-07/126 was deferred for further discussion.

There was procedural motion being ruled out by chair as following:

Motion: To add 008r2, 108r2, 40r4 and 41r4 to the list to consider at Relay Task Group.

Moved by: Yousuf
Seconded by: Shashi

And Chair announced additional contributions not in the list would be considered after resolving every contributions in the list.

2:30pm Resolution of each contribution in the list was held.

- Evaluation methodology
  - C802.16j-07/105r2: accept without objection

- Frame structure
  - C802.16j-07/135r2
    - Remedy1: Rejected, Yes:31/ No:22/ Abstain:1
      - Reason for rejection (Wen Tong: changing terms induce the need to demonstrate co-existence issues).
    - Remedy2: accepted modified without objection. The modification is to replace every occurrences of interval into zone
  - C802.16j-07/109r2, accepted without objection
  - C802.16j-07/136r4, rejected, Yes:33/ No:18/ Abstain:1
    - Reason for rejection (Wen Tong)
      * need to be flexible enough to make possible synchronization interRS when the RSs belong different BSs.
      * need more study how to support the mobility of RS/mobile RS need to scan entire frame for handover.
      * need more study how to do time tracking using this flexible postamble design.
  - C802.16j-07/23r2 transparent frame structure: accepted modified with no objection
    - C802.16j-07/23r3 will be uploaded by editor, Mike including the modification.

- NE
  - C802.16j-07/001r4: network entry of transparent relay./ accepted with no objection
  - C802.16j-07/97r2: deferred to next meeting.
  - C802.16j-06/274r6: accepted: Yes:49/ No:10/ Abstain:5
    - Reason for rejection (G.Q.Wang: No need to classify CID for this solution.)
– C802.16j-07/126r1: deferred to next meeting
– C802.16j-07/24r2: accepted with no objection

• BR:
  – C802.16j-07/39r3: accepted with no objection
  – C802.16j-07/011r3: BW request method for distributed scheduling of non-transparent relay
    • Reason for rejection (Shashi: message of resource grant touch security problem.)
    • Accepted: Yes:57/ No:5/ Abstain:0
  – C802.16j-07/042r1: rejected: Yes:3/ No:9/ Abstain:18
    • Reason for rejection (Sunil: potential technical overlap/confliction with 011r3.)
    • Reason for rejection (BW REQ mechanism is not useful/inefficient since the information included in the BW REQ mechanism is redundant.)

• Construction of MAC PDUs
  – C802.16j-07/09r2: accepted with no objection.

• PHY
  – C802.16j-07/14: Power control: accept modified with no objection
    • Modification
      • Deleting last sentence at section 8.4.10.4.3
      • -128dBm and 127dBm → [TBD] at section 11.8.3.7.20
  – C802.16j-07/80r1: AAS: rejected: Yes:14/ No:15/ Abstain:7
    • Reason for rejection:
      • John: relay zone with AAS make relay to be complex. As, current AAS scheme in 16e can be used without specific zone definition, no further reason or benefit to define for AAS only for Relay zone.
  – C802.16j-07/124r1 (cooperative relay): accepted with no objection

• Measurement & reporting
  – C802.16j-07/138r1: location info reporting: deferred to next meeting.
  – C802.16j-07/43r3: Neighborhood discovery: rejected: Yes:30/ No:13/ Abstain:1
    • Reason for rejection:
      • The proposed scheme is related with amble, therefore, the portion related with amble should be removed.
      • Measurement of RS belong different BS should be solved also, need more harmonization to include solution of inter BS coordination for it.
  – C802.16j-07/20r5: UL sounding for interference measurement: rejected: Yes:24/ No:12/ Abstain:2
    • Reason for rejection:
      • Full coordination of measuring is required and will induce long delay and overhead.

• HO
  – C802.16j-07/36r1: handover of MS in movement of different RS with different preamble: accepted with no objection
  – C802.16j-07/47r2: handover of MS in movement of different RS with same preamble: accepted with no objection
  – C802.16j-07/139: Neighbor Advertisement: accepted with no objection

• Sleep/Idle Mode
  – C802.16j-07/44r1: MS sleep mode support with centralized scheduling of RS: accepted with no objection
  – C802.16j-07/35r1: MS sleep mode support for distributed scheduling of RS: rejected: Yes:13/ No: 24/ Abstain:2
    • Reason for rejection:
• More detail inspection is need
• Buffering of Data at RS is beyond of scope of sleep mode.
• Scheme of RS approving sleep mode and introduction of new message is not clearly efficient.
• Even Multihop case, by reusing of CID field, legacy message can be used.
  – C802.16j-07/30: idle mode: accepted modified with no objection
    • Modification is to replace MMR-BS to MR-BS
  – C802.16j-07/5r3: MBS: accepted with no objection
• PHY/HARQ
  – C802.16j-07/2r1: DL-HARQ: rejected: Yes:25/ No:18/ Abstain:0
    • Reason for rejection(Wen Tong)
      • sequence flow is not clear, for example flow of using SPID should be provided.
      • Transparent 2hop case need more clarification
  – C802.16j-07/29r1: UL-HARQ: rejected: Yes:29/ No:14/ Abstain: 2
    • 2hop transparent, multihop non-transparent.
    • Strike out the line above instruction of 11.19
    • Reason for rejection(Wen Tong)
      • In multihop case, use of SPID is not clearly supported as frame index may be changed while transferred hop by hop.
      • Action Item : Further harmonization work for identifying the problem raised and clarification is need.
• Routing
  – C802.16j-07/48r5: Systematic CID assignment: Yes:22/ No:17/ Abstain:2
    • Reason for rejection(Shaishi) :
      • Cooperative relay for RS and soft handover case cannot be possible.

5:50pm Chair discussed on Forum discussion about Relay types, Security models for .16j and Frame structure, Handover, Ranging, Routing&Path management, Network entry, BW request, Measurement&Reporting, RS grouping & HARQ.

6:10pm Chair reported the work of ad hoc and the result of contribution resolution.

6:20pm Motion : To authorize the technical editors to revise the guideline document:
  Evaluation Methodology(06/013r2) to accommodate the contribution accepted.
  Moved by Wen Tong, Seconded by Roger Peterson
  Approved with no objection

6:22pm Motion: To authorize the technical editors to revise the baseline document(06/026r1) to accommodate the contribution accepted.(as recorded at the session minute)
  Moved by Shyamal Ramachandran, Seconded by I-Kang Fu
  Approved with no objection

6:25pm Motion: To authorize the TG chair to issue a “Call for Technical Comments and contributions”.
  Moved by I-Kang Fu, Seconded by Masahito Asa
  Approved with no objection

Chair indicated that the TG faced some schedule delay and set up the baseline document completion as the prime objective of the next session so that the initial draft can be issued towards the WG ballot.
6:30pm Motion to adjourn
Moved by John Norin, Seconded by Peiying Zhu,
Approved with no objection.

#47 Session was adjourned