IEEE P802.22
Wireless RANs

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| Minute of IEEE 802.22b Task group at San Diego Face-to-Face Meeting  |
| Date: 2012-9-7 |
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Abstract

This document presents the minutes of IEEE 802.22b task group at San Dieto Face-to-Face Meeting from 16th Jul 2012 to 19th Jul 2012.

 **IEEE 802.22b Task Group**

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**17th Jul (Tuesday), AM1**

**Minutes:**

1. The meeting was called to order by Dr. Pyo.

2. Attendace reminder.

3. IEEE patent policy was read out by Dr. Pyo.

4. P802.22b title, PAR scope and purpose were introduced again. The agenda for July meeting as contained in document 22-12-0067-01-000b was reviewed.

The following motion was proposed:

**Motion to approve July 802.22b agenda as contained in 22-12-0067-01-000b**

**Move: Chang-woo Pyo**

**Second:Chunyi Song**

The motion was passed unanimously

5. Minute of IEEE 802.22b Task group at Atlanta face-to-face meeting as contained in 22-12-0058-00-000b was reviewed.

The following motion was proposed:

**Motion to approve May 802.22b minutes as contained in 22-12-0058-00-000b**

**Move: Chang-woo Pyo**

**Second: Chunyi Song**

The motion was passed unanimously

6. Minutes for two conference calls as contained in document 22-12-0068-00-000b and 22-12-0070-00-000b were reviewed.

The following motion was proposed:

**Motion to approve 802.22b conference call minutes for June 5, 2012, June 26, 2012, as contained in 22-12-0068-00-000b and 22-12-0070-00-000b**

**Move: Chang-woo Pyo**

**Second: Chunyi Song**

7. Two technical contributions from NICT and Niigata University were announced. Preliminary link budget analysis for 802.22b (22-12-0055-02-000b) was presented by Xin Zhang from NICT.

8. The task group was recessed at 1000.

**IEEE 802.22b Task Group**

**17th Jul (Tuesday), AM2**

**Minutes:**

1. The meeting was called to order by Dr. Pyo.

2. Attendance reminder.

3. The discussion of selection criteria document as contained in 22-12-0025-05-000b continued from teleconference.

4. The following comments were received.

 4.1 In section 3, under broadband service extension model, tree topology or mesh topology was suggested to remove, because it is hard to fulfil both. It is better to keep the feature “multi-hop connection”

 4.2. In section 3, under broadband service extension model, it was suggested to remove the peer to peer video transmission.

 4.3 In section 4.3, the communication range for base station is suggested to replace 30km with 10 km due to the latest link budget calculation.

 4.4 In section 4.3, the communication range for H-CPE is suggested to replace 5 km with 15 km due to the latest link budget calculation.

 4.5 In section 4.4, the antenna height for base station is updated to be 30 m.

 4.6 In section 4.7, it was suggested to specify simultaneous communication for each packet traffic.

 4.7 In section 5.3, the communication range for base station and L-CPE are chaged to 10 km and 2 km respectively according to the updated link budget analysis.

 4.8 In section 5.4, the antenna height for base station is changed to 30m.

 4.9 In section 6.3, the communication range for bas station and H-CPE is changed to 10 km and 5 km respectively.

 5.0 In section 6.4, the antenna height for base station is changed to 30 m.

5. The meeting was recessed at 1230.

**IEEE802.22b Task Group**

**18th Jul (Wednesday), AM1**

**Minutes:**

1. This session was cancelled.

**IEEE802.22b Task Group**

**18th Jul (Wednesday), AM2**

**Minutes:**

1. The meeting was called to order by Dr. Pyo.

2. Attendance was marked.

3. Contributions 1. Link Budget Analysis for Broadband Services in IEEE 802.22b (22-12-0071-00-000b) from Niigata University 2. Preliminary Link Budget Anaysis for 802.22b (22-12-0055-03-000b) from NICT will be presented in this session.

4. Because the presentation from NICT covers some fundamental understanding of the new task group, it was presented first.

5. Preliminary Link Budget Anaysis for 802.22b (22-12-0055-03-000b) from NICT was presented. This link budget analysis is a revised version of the presented document on Tuesday. One question was asked, why is the communication range in case 2 greater than case 1, and why that of is case 4 greater than case 3. The answer for this question is due to the receiver sensitity and EIRP are different for base station and CPE.

6. Bingxuan Zhao from Niigata University presented Link Budget Analysis for Broadband Services in IEEE 802.22b (22-12-0071-00-000b).

 6.1

7. The discussion of selection criteria continued.

 7.1 It was suggested to modify the reference packet error rate (PER) to 10e-2.

 7.2 It was pointed out that 802.22 base standard use static directional antenna, hence, MIMO technology is not allowed. It is not sensible to take up a value of 6 dBi as antenna gain for H-CPE. The relevant values in selection criteria documents need to be changed.

 7.3 Chair initiated a discussion on “Which model shall be mandatory for performance study” A. Smart metering model B. Real-time/Near real-time video monitoring model C.Broadband service extension model on multihop D. Proposal defind model. The explaination for each option can be found in the selection criteria document. The result of the strawpoll is:

 A:0

 B:5

 C:0

 D:1

8. This session was recessed at 1230.

**IEEE802.22b Task Group**

**19th Jul (Thursday), AM1**

**Minutes:**

1. The meeting was called to order by Dr. Pyo.

2. Attendance was marked.

3. There is a final discussion on the selection criteria document.

 3.1 One sentence “the maximum radius of BS coverage may have a different value at different situation/scenarios” is added after the 10km communication range for base station is defined. This change can be observed in session 4.3, 5.3 and 6.3.

 3.2 Similar sentence “, but may have a different value at different situations/scenarios” is added to antenna gain.

 3.3 Antenna height is changed to 30m.

 3.4 Additional sentence is added to the document. “The real-time/near real-time video monitoring model(RMM) or proposal defined model (PDM) shown in the selection criteria (22-12-0025-07-000b) is shown to the proposal, however, the proposer may show results for different scenarios”

4. The following motion was proposed:

**Motion: To approve the Selection Criteria Document, 802.22-12/0025r8-000b**

**Move: Apurva Mody**

**Second: Chunyi Song**

**For: 8**

**Against: 0**

**Abstain: 0**

This motion was passed unanimously.

5. **Motion: To approve the latest call for proposal (802.22-12/0024r03-000b)**

**Move: Mody Apurva**

**Second: Sunghyun Hwang**

**For: 8**

**Against: 0**

**Abstain: 0**

The motion was passed unanimously.

6. The meeting was adjourned at 9:40am.