IEEE P802.22
Wireless RANs

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| Minute of IEEE 802.22b Task Group Teleconference-12 |
| Date: 2013-3-1 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Xin Zhang | NICT | 20 Science Park Road, #01-09A/10 TeleTech Park, Singapore Science Park II | +65- 67711008 | Amy.xinzhang@ieee.org |

Abstract

This document presents the minute of IEEE 802.22b Enhancements for Broadband Services and Monitoring Applications Task Group teleconference-12 held on 1st Mar, 2013 9:00 pm EDT.

**IEEE 802.22b Task Group Teleconference-12 Minutes**

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**1st MAR, 0910-1016 PM EDT**

**Attendees:**

Bingxuan Zhao (Niigata University), Changwoo Pyo (NICT), Xin Zhang (NICT), Masayuki Oodo (NICT), Sunghyun Hwang (ETRI), Chunyi Song (NICT), Keat-Beng Toh (Hitachi Kokusai Electric Inc)

**Minutes:**

1. The meeting was called to order at 0910 pm EDT.

2. Document: 22-13-0030-00-000b was presented. The chair briefly introduced the discussion issue for this teleconference. The agenda today is to present PHY technical items from ETRI and NICT and Niigata University. The document numbers are 22-13-0027-00-000b and 22-13-0031-01-000b and 22-13-0032-00-000b respectively.

3. The first presentation is carried out by Dr Hwang (Document: 22-13-0027-00-000b).

Q: Do you mean to move the frame management from MAC to PHY

A: No. We don’t need to move that section to PHY, but we need to consider the function.

Q: Could you explain more detail regarding the pilot pattern?

A: Currently, the pilot pattern in .22 base standard supports SISO. Different pilot pattern should designed for different antenna.

Q: Confirm the definition of mandatory and optional, is MIMO mandatory or optional? What about the data rate?

A: MIMO is optional, but data rate is mandatory, MIMO is one of the possible methods to improve the throughput.

Q: For the MIMO proposal, is it the proposal from Dr Apurva?

A: Dr Apurva proposed his MIMO techniques, but we can also consider more techniques on MIMO. Anybody can contribute the MIMO technology.

4. The second presentation is by Dr Oodo (Document:22-13-0031-01-000b)

Q: Clarification: what does necessary mean in column G

A: It means modification is necessary or not. If markd N, that means modification is required. If marked O, It means legacy mode will be used with minimum modification. Those marked yellow, is completely new from legacy standard.

Q: Suggest to add “mandatory or not” in the document.

Suggestion is accepted.

Q: Confirm: do we need to have 4 columns for PHY technical item?

A: 3 columns are necessary. “Necessary or not” “New or not” “Mandatory or not”

Q: Suggest to add “22b modification necessary or not” in column G, for column H, “new or not from 22 legacy standard”

Suggestions are accepted.

Chair welcomes any ideas to improve the PHY technical item spreadsheet. Ideas can be sent via email.

5. The next presentation is by Dr Zhao from Niigata University (Document: 22-13-0032-00-000b).

Q: In the contributor column, Niigata University is added. Do you plan to contribute in the section in the coming face-to-face meeting?

A: This is marked to show that Niigata University is interested in modifying the corresponding section.

Q: We have to determin the meaning of column K. In my understanding, this column refers to the person who intends to contribute to the section. But we can’t use this column to show interest.

A: We should separate contributor from editors. Contributors are persons who are interested in contributing the section, and editors are persons in charge of the section.

Q: Does “Transition Diagrams for Channel set” belong to MAC?

A: I think it is closer to MAC, but it depends on the content too. So we will decide this later. For the time being, it is fine here.

Q: In my understanding, this section refers to some error correction in the legacy standard.

Chair applauded the progress shown this week and encouraged more contributions in the coming meeting.

Regarding the MAC technical editor, Dr Ko from ETRI needs comfirmation.

Contribtuion from Dr Toh will be presented in the face-to-face meeting, due to his possible absence from the nect teleconference.

Chair reminded the last teleconference next week before the face-to-face meeting.

6. The teleconference was adjourned at 1016PM EDT.