 

IEEE P802.21 Media Independent Handover Services

Tentative Minutes of the IEEE P802.21 Working Group

Session #47 Meeting, Bangkok, Thailand

Chair: Subir Das

Vice Chair: Juan Carlos Zuniga

Secretary: H Anthony Chan

Editor: David Cypher

# First Day PM1 (1:30PM-3:30PM): Techwood; Monday, November 7, 2011

## 802.21 WG Opening Plenary: Meeting is called to order by Subir Das, Chair of IEEE 802.21WG at 1:32PM with opening notes (21-11-0173-01).

## Approval of the September 2011 Meeting Agenda (21-11-0169-01)

### Agenda is amended to the following as in 21-11-0169-02 and is approved with unanimous consent.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Monday**  **(Nov 07)** | **Tuesday**  **(Nov 08)** | **Wednesday**  **(Nov 09)** | **Thursday**  **(Nov 10)** |
| **AM-1**  **8:00-10:00a** | NA |  | Comment resolution- 802.21b | Comment resolution- 802.21a |
| **AM-2**  **10:30-12:30** | NA | Comment resolution- 802.21a | SRHO TG | Future Project Planning |
| **PM-1**  **1:30 – 3:30p** | 802.21 WG Opening Plenary | Comment resolution- 802.21a | Comment resolution – 802.21a/Mid week Plenary | 802.21 WG Closing Plenary |
| **PM-2**  **4:00 – 6:00p** | Comment resolution- 802.21b | Future Project Planning | SRHO TG |  |
| **Eve**  **6:30 – 7:30p** | Tutorial | Future Project Planning | Social |  |

## IEEE 802.21 Session #46 Opening Notes

### WG Officers

#### Chair: Subir Das

#### Vice Chair: Juan Carlos Zuniga

#### Secretary: Anthony Chan

#### Editor: David Cypher

#### 802.11 Liaison: Clint Chaplin

#### 802.16 Liaison: Peretz Feder

#### IETF Liaison: Yoshihiro Ohba

The WG has 27 voting members as of this meeting.

### Network information for the documents

#### Document server: <https://mentor.ieee.org/802.21/documents>.

### Attendance and voting membership are presented.

#### Attendance is taken electronically ONLY at https://murphy.events.ieee.org/imat

#### Enter your personal information and profile

#### Mark attendance during every session

#### Total number of 802.21 WG sessions: 16

#### 12 sessions for 75% attendance to be counted towards WG voting membership.

#### All attendance records on the 802.21 website. Please check the attendance records for any errors

### Voting membership

#### 802.21 Voting membership is described in DCN 21-06-075-02-0000

#### Maintenance of Voting Membership

Two plenary sessions out of four consecutive plenary sessions on a moving window basis

One out of the two plenary session requirement could be substituted by an Interim session

#### WG Letter Ballots: Members are expected to vote on WG LBs. Failure to vote on 2 out of last 3 WG LBs could result in loss of voting rights

### Miscellaneous Meeting Logistics are presented.

#### Network Information: Network Name: veriLAN (Open), veriLAN.1x(passwd required)

#### Breaks: 802.21 WG would break as follows:

AM Coffee break: 10:00-10:30 am

PM Coffee break: 3:30 - 4:00 pm

#### Default Location: Techwood, Atlanta Level

#### Wednesday Night Social: Grand Hall, Exhibit Level: 6:30 pm Onwards

### Rules on registration and media recording policy are presented.

### Rules on Membership & Anti-Trust are presented

### Rules to inform about patents are presented as follows:





### Chair asked whether there are any potential essential patent claims by any 802.21 WG participants. None.



### Other guidelines for IEEE WG meetings, including discussions that are inappropriate are presented.



### LMSC Chair’s guidelines on commercialism at meeting are presented.

### Rules on copyright are presented. Note that the copyright procedures are being updated.

### Chair: How many people are attending the IEEE 802.21 WG meetings for the first time? Floor: counted 0

## Work status

### Working Group

#### Completed IEEE 802.21a and IEEE 802.21b ballots

### Task Group Status

#### 802.21a Security TG: work completed

#### 802.21b Handover with Broadcast Services TG; Work completed

#### 802.21c Single Radio Handovers: Proposals updated; Draft specification is underway

## IEEE 802.21a Sponsor Ballot Result

### SB started on August 2nd, 2011 and ended on August 31st, 2011

### Result announced on September 01, 2011

### Summary

#### Approve: 59

#### Disapprove: 03

#### Abstain: 03

#### Return ratio: 81 %

#### Approval ratio: 96%

### The ballot is approved

#### Received 93 comments of which 28 must be satisfied

## IEEE 802.21a SB Re-circulation Result

### SB-recir started on October 25th, 2011 and ended on November 4th, 2011

### Result announced on November 5th, 2011

### Summary

#### Approve: 62

#### Disapprove: 02

#### Abstain: 04

#### Return ratio: 85 %

#### Approval ratio: 96%

### The ballot is approved

#### Received 16 comments of which 3 must be satisfied

## IEEE 802.21b Sponsor Ballot Result

### SB started on August 2nd, 2011 and ended on August 31st, 2011

### Result announced on September 01, 2011

### Summary

#### Approve: 57

#### Disapprove: 03

#### Abstain: 02

#### Return ratio: 82 %

#### Approval ratio: 95%

### The ballot is approved

#### Received 41 comments of which 19 must be satisfied

## IEEE 802.21b SB Re-circulation Result

### SB-recir started on October 25th, 2011 and ended on November 4th, 2011

### Result announced on November 5th, 2011

### Summary

#### Approve: 60

#### Disapprove: 02

#### Abstain: 03

#### Return ratio: 86 %

#### Approval ratio: 96%

### The ballot is approved

#### Received 4 comments of which 2 must be satisfied

## Objectives for the November Meeting

### Working Group Activities

#### IEEE 802.21a: Security Extensions to MIH Services: Sponsor Ballot comment resolution by Ballot Resolution Committee (BRC)

#### IEEE 802.21b: Handovers with Broadcast Services: Sponsor Ballot comment resolution by BRC

### Task Group Activities

#### 802.21c: Single Radio Handovers: Draft document discussion

### Future Project Planning Discussion

#### Tuesday evening

## Next session:

### Interim: 15-20 January 2012, Jacksonville, USA

#### Co-located with all 802 groups

## September Plenary Meeting Minutes (21-11-0159-05).

### Meeting minutes is approved with unanimous consent.

## 802 architecture update

### 2 sessions on Tue and Thur 8-10AM in Chicago.

## Comments on PARs under considerations

### Comment on P802.15.9 (21-11-0178-00) is presented by Yohsihiro Ohba.

Background: P802.15.9 proposes key management practice. For information, in 802.11, the key management is based on 802.1x using EAP to create MSK for the MAC layer master key. Pre-shared key without using EAP is also defined.

### P802.15.9 PAR/Section 5.2

Current text: “This Recommended Practice defines a transport mechanism interface for key management protocols (KMPs) and guidelines for the use of some existing KMPs with IEEE 802.15 standards. This Recommended Practice does not create a new KMP.”

Comment: It is not clear what “a transport mechanism interface” means. Is it trying to define a transport mechanism for KMPs, or just an interface to a transport mechanism for KMPs? The remaining text of the PAR implies that this project is trying to define a transport mechanism for KMPs.

### P802.15.9 PAR/Section 5.3

Current Text: “This proposal uses facilities provided by amendment IEEE 802.15.4e. In addition, it provides a transport mechanism for IEEE 802.15.6. Both of these standards have passed their first Sponsor ballot are are expected to be completed in early 2012.”

Comment: The transport mechanism for IEEE 802.15.6 should be more specific to transport KMPs.

Comment: Replace “are are” with “are”.

### P802.15.9 PAR/Section 5.5

Current text: “802.15 standards have always supported datagram security, but have not provided a mechanism for establishing the keys used by this feature and upper layer key management is complex to deploy. “ … “It will also provide guidelines for commonly used KMPs like IETF's HIP, IKEv2, IEEE 802.1X, and 4-Way-Handshake.”

Comment: RFC 5191 (also known as PANA) is the IETF KMP used by ZigBee IP to provide MAC keys for 802.15.4-based HAN (Home Area Network) intended for mass-market deployment. Without proper reference, it is difficult to understand why upper layer key management is complex to deploy. In particular, the examples cited here “IETF’s HIP, IKEv2” are also upper layer KMPs.

### P802.15.9 PAR/Section 7.1

Comment: It should be mentioned that ZigBee IP uses PANA　(RFC 5191) as the KMP to provide MAC keys for 802.15.4 based HAN in ZigBee Smart Energy Profile 2.0 (SEP2.0), where UDP/IP is used as the transport of the PANA KMP. The use of PANA in ZigBee IP should be mentioned in this section.

### Other potential PAR activities

Chair reported from the following information from the opening 802 plenary:

802.1 is planning on a PAR on security to support high speed data rate

Joint session for 802.1 and 802.3 on Wednesday 9-10AM in Regency 5 to discuss preemption activities for high speed data rate.

## 802.21a BRC commentary file DCN: 21-11-148 is presented by 802.21a BRC-Lead, Yoshihiro Ohba

### There are 17 comments, which are primarily of editorial nature.

## 802.21b BRC commentary file DCN is presented by 802.21b BRC-Lead, Juan Carlos Zuniga

### There are 4 comments, one of which is technical.

## 802.21c Single radio handover task group agenda for this September Interim (21-11-0167-00) is presented by TG Chair, Junghoon Jee

### Items to be covered this week

### Proposal Discussion: IEEE 802.21c Protocol Design Consideration, Hyunho Park (ETRI)

### Future Planning

### Time Schedule

#### Wednesday AM2, PM2

### Future Planning will be discussed.

### Update on EC opening plenary

#### EC Workshop on Saturday and Sunday. Ajar will represent 802.21 to present. The agenda is on the EC website.

#### Some items are of interest to everyone, such as should the scope of 802 be widened. WG discussion is needed.

### Future meeting logistics: opinions are solicited.

## Meeting recess at 3:18PM

# First Day PM2 (4-6PM): Techwood; Monday, November 8, 2011

## 802.21b sponsor ballot comment resolution is led by Juan Carlos Zuniga

## Comment resolutions are discussed

Comment on state machine is rejected.

Comment on backward compatibility with bit 3 is accepted. Bit 5 will be added.

Comment on vulnerability to sproof a broadcast handover message is rejected for being out of scope of 802.21b.

## Comment resolution are recorded in 21-11-0181-01

## Meeting recess at 5:55PM

# Second Day AM2 (10:30AM-12:30PM): Techwood; Monday, November 8, 2011

## Meeting is called to order with agenda 21-11-0177-00 to discuss 802.21a sponsor ballot comment resolution 21-11-0175-00 led by Yoshihiro Ohba

## Comment resolution are recorded in 21-11-0177-01

## Agenda is amended to the following with unanimous consent.

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## Teleconference schedule

### December 15 10AM ET

### December 22 10AM ET

## Meeting recess at 12:05PM