 

IEEE P802.21 Media Independent Handover Services

Tentative Minutes of the IEEE P802.21 Working Group

Session #46 Meeting, Bangkok, Thailand

Chair: Subir Das

Vice Chair: Juan Carlos Zuniga

Secretary: H Anthony Chan

Editor: David Cypher

(Version: There are partial minutes current up to the time it is uploaded.)

# First Day PM1 (1:30PM-3:30PM): Lotus Suite 5; Monday, September 19, 2011

## 802.21 WG Opening Plenary: Meeting is called to order by Subir Das, Chair of IEEE 802.21WG at 1:35PM with opening notes (21-11-0154-00).

## Approval of the September 2011 Meeting Agenda (21-11-0147-00)

### It is changed to use Monday Evening for future planning tentatively.

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Monday****(Sept 19)** | **Tuesday****(Sept 20)** | **Wednesday****(Sept 21)** | **Thursday****(Sept 22)** |
| **AM-1****8:00-10:00a** | NA | Comment resolution- 802.21a | Comment resolution- 802.21b | Comment resolution- 802.21a |
| **AM-2****10:30-12:30** | NA | SRHO TG | SRHO TG  | Comment resolution- 802.21b |
| **PM-1****1:30 – 3:30p** | 802.21 WG Opening Plenary | Comment resolution- 802.21b | Comment resolution- 802.21a |  SRHO TG  |
| **PM-2****4:00 – 6:00p** | Comment resolution- 802.21a  | Comment resolution- 802.21a | SRHO TG  | 802.21 WG Closing Plenary |
| **Eve** **6:30 – 7:30p** | Future Project Planning tentative |  Future Project Planning  | Social(TBD) |  |

## 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

#### SSID: CLLIEEE or someother IEEE password: ieeeieee

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

### Attendance and voting membership are presented.

#### Attendance is taken electronically ONLY at <https://seabass.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.

#### Meeting room: Lotus Suite 5

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

#### Lunch: 12.30 -1:30 pm

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

Breakfast Tuesday to Thursday 7-9AM

AM coffee break 10:00-10:30AM;

#### Wednesday night: Social at 7:00PM 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 802.21b 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

## Objectives for the September Meeting

### Working Group Activities

#### IEEE 802.21a: Security Extensions to MIH Services: Sponsor Ballot comment resolution by 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:

### Plenary: 7-10 Nov 2011, Atlanta, USA

#### Co-located with all 802 groups

## September Plenary Meeting Minutes (21-11-0121-04).

### Meeting minutes is approved with unanimous consent.

## 802 architecture update

### Nothing new.

## 802.21a BRC meeting agenda (21-11-0156-00) is presented by 802.21a BRC Chair, Yoshihiro Ohba

### Monday Sept 19 2011 PM2

#### Editorial and general comments.

### Tuesday Sept 20 2011 AM1 and PM2

#### Technical comments.

#### PM2: Discussion on Comment #26 (Y. Ohba’s comment on SFF support through sPoS), contribution DCN for detailed remedy to be announced

### Wednesday, September 21th, 2011, PM1

####  Technical comments

### Thursday, September 22th, 2011, AM1

####  Teleconference schedule, etc.

### The agenda is subject to change depending on the progress of comment resolution discussion

### Commentary file DCN: 21-11-148

### 802.21a BRC members

#### Ajay Rajkumar

#### Antonio de la Oliva

#### Anthony Chan

#### Clint Chaplin

#### Fernando Bernal-Hidalgo

#### Karen Randall

#### Lily Chen

#### Rafael Marin-Lopez

#### Subir Das

#### Yoshihiro Ohba (Lead)

## 802.21b BRC is presented by 802.21b BRC Chair, Juan Carlos Zuniga

### The received comments have been tentatively assessed.

### BRC has been formed.

## 802.21c Single radio handover task group agenda for this September Interim (21-11-0139-01) is presented by TG Chair, Junghoon Jee

### Proposal discussion

#### SFF operations augmented with UE location information, Charles Perkins (Tellabs)

#### Single Radio Handover proposal, Anthony Chan (Huawei)

#### 802.21c Draft Revision, Dapeng Liu (China Mobile): 21-11-0152-00-srho, 21-11-0153-00-srho

#### Command service for single radio handover, Dapeng Liu (China Mobile): 21-11-0151-00-srho

### Future Planning

### Time Schedule

#### Tuesday AM2

#### Wednesday AM2, PM2

#### Thursday PM1

## Meeting recess at 2:40PM

# First Day PM2 (4-6PM): Lotus Suite 5; Monday, September 19, 2011

## 802.21a comment resolution is led by Yoshihiro Ohba

## Comments are recorded in 21-11-0148-00

## Comment resolution are recorded in 21-11-0148-01

# First Day Eve (6:30-7:30PM): Lotus Suite 5; Monday, September 19, 2011

## Future planning discussion is chaired by Subir Das

## The slides from the future planning teleconference is briefed, and additional materials especially in use cases are requested.

## Agenda is amended into the following (21-11-0147-01)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Monday****(Sept 19)** | **Tuesday****(Sept 20)** | **Wednesday****(Sept 21)** | **Thursday****(Sept 22)** |
| **AM-1****8:00-10:00a** | NA | Comment resolution- 802.21a | Comment resolution- 802.21b | Comment resolution- 802.21a |
| **AM-2****10:30-12:30** | NA | SRHO TG | SRHO TG  | Comment resolution- 802.21b |
| **PM-1****1:30 – 3:30p** | 802.21 WG Opening Plenary | Comment resolution- 802.21b | Future Project Planning |  SRHO TG  |
| **PM-2****4:00 – 6:00p** | Comment resolution- 802.21a  | Comment resolution- 802.21a | SRHO TG  | 802.21 WG Closing Plenary |
| **Eve** **6:30 – 7:30p** | Future Project Planning tentative | Comment resolution- 802.21a | Social(TBD) |  |

## Meeting recess at 7:53PM

# Second Day AM1 (8-10AM): Lotus Suite 5; Tuesday, September 20, 2011

## 802.21a comment resolution (21-11-0148-01) is led by Yoshihiro Ohba

## Comment resolutions are being recorded into the next version of 21-11-0148

## Meeting recess at 10 AM

# Second Day PM1 (1:30-3:30PM): Lotus Suite 5; Tuesday, September 20, 2011

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

## There are 41 comments in the comment file (21-11-0149-00)

## Comment resolutions are recorded into the next version of 21-11-0149

# Second Day PM2 (4-6PM): Lotus Suite 5; Tuesday, September 20, 2011

## 802.21a comment resolution is led by Yoshihiro Ohba

## Comment resolutions are being recorded into the next version of 21-11-0148

## The suggested remedy for comment #26 (21-11-0157-02) is presented by Yoshihiro. This document, titled “Proactive pull key distribution through target POS,” introduces interaction between serving POS and target POS so that the serving POS may pass the existing key to the target POS to support the originating SFF to forward the keys to the target SFF. However it is argued that 802.21a does allow authentication by POS to generate media specific keys to different networks. It does not need to define a different network but does not make it specific on how to to leave the work to 802.21c.

# Second Day Evening (6:30-7:30PM): Lotus Suite 5; Tuesday, September 20, 2011

## Meeting from PM2 is extended beyond 6PM to start the evening session early.

## Comment resolution discussions are continued.

## As most comments have been discussed, the meeting recess early at 6:30PM.

## Comment resolutions are in 21-11-0148-02

# Third Day AM1 (8-10AM): Lotus Suite 5; Wednesday, September 21, 2011

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

## Some comments on data types are owing to confusion on the meaning of data types. It is suggested to explain that the data types in 802.21 are abstract data types rather than specific data types used in some computer programming languages. All the comments arising from such confusion will be fixed with this clarification in the base spec.

## The comment #5 has a suggested resolution in 21-11-0144-00 but is waiting for a corrected version of this file.

## Comment resolution discussion are recorded in 21-11-0149-01

## Agenda is amended with unanimous consent into the following

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Monday****(Sept 19)** | **Tuesday****(Sept 20)** | **Wednesday****(Sept 21)** | **Thursday****(Sept 22)** |
| **AM-1****8:00-10:00a** | NA | Comment resolution- 802.21a | Comment resolution- 802.21b | Comment resolution- 802.21a |
| **AM-2****10:30-12:30** | NA | SRHO TG | SRHO TG  | Comment resolution- 802.21b |
| **PM-1****1:30 – 3:30p** | 802.21 WG Opening Plenary | Comment resolution- 802.21b | SRHO TG  |  SRHO TG  |
| **PM-2****4:00 – 6:00p** | Comment resolution- 802.21a  | Comment resolution- 802.21a | Future Project Planning | 802.21 WG Closing Plenary |
| **Eve** **6:30 – 7:30p** | Future Project Planning tentative | Comment resolution- 802.21a | Social(TBD) |  |

## Meeting recess at 10:35AM

# Third Day PM2 (4:00-6:00PM): Lotus Suite 5; Wednesday, September 21, 2011

## Future project planning discussion

## Antonio de la Oliva and Daniel present through Skype

### Antonio presented 3 main lines:

#### QoS integration: define a common QoS framework

#### Extended capability discovery

#### Extended and dynamic MIIS: Provide dynamic information which is not in ANDSF

### There is market need to make dynamic information available, e.g., VoIP capabilities, ESS, CDN and other services provided, load, etc. without having to attach to the POA.

#### The time scale for dynamic information, e.g. finding out the link condition prior to handover, i.e., with attaching to the network. The information allows for making better network selection. It needs a distributed information server.

#### Is the information available at the radio layer or at other layers as well.

#### The value is on how to make the information available and the architecture of how to do it.

#### It is also necessary that the values we give will convince other network standards that it is necessary to do it.

### Use cases:

#### network selection for bootstrapping;

#### network load balancing

#### Provide scenarios on how to optimize.

#### Currently, ANDSF is only giving static policy information. There is work item in SA2 on extending the capability of ANDSF. Dapeng will check the information to share with us.

## Proposals for future work (21-11-0158-01) is presented by Charlie Perkins

### Provide location data with SFF signaling

### Define PAWS (whitespace)-like access to common location database: make gap analysis for MIIS and ANDSF (ietf paws WG is already active)

#### The database is currently owned by FCC.

#### SFF and ANDSF access operator location database

#### The scenarios are: (1) AP have direct access to the database. (2) AP and MN have direct access. (3) MN does not have direct access and must access via a AP.

### Caching operation [regional trickle charge + UE-specific loads]

### Policy features for MIIS

### SFF Proposal into 3GPP

### Both MIIS and ANDSF are not yet dynamic, and both need mechanism of updating dynamically.

## Hotspot 2.0 work is briefed by Dapeng Liu

### Purpose is to for WiFi users to have the same experience as cellular network users

### Network based on 802.11, authentication methods: EAP and EAPS; network selection policy from operator. Notification protocol (NQP) – upper layer information – will check whether one can access information before or after network access.

### Use case 1: Currently, authentication to WiFi is through login to network SSID. Hotspot will scan the SSID and automatically find the right one. It will also know the authentication method. The user experience is similar in using cell phone where the user does not need to select which operator.

### Use case 2: authentication method. The hotspot can broadcast SSID together with roaming agreement information.

### Policy information: Hotspot 2.0 only covers the WiFi network information. The information can be pushed to the MN.

## Agenda is amended with unanimous consent to the following (21-11-0147-02).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Monday****(Sept 19)** | **Tuesday****(Sept 20)** | **Wednesday****(Sept 21)** | **Thursday****(Sept 22)** |
| **AM-1****8:00-10:00a** | NA | Comment resolution- 802.21a | Comment resolution- 802.21b |  |
| **AM-2****10:30-12:30** | NA | SRHO TG | SRHO TG  | Comment resolution- 802.21a and Comment resolution- 802.21b |
| **PM-1****1:30 – 3:30p** | 802.21 WG Opening Plenary | Comment resolution- 802.21b | Comment resolution- 802.21a |  SRHO TG  |
| **PM-2****4:00 – 6:00p** | Comment resolution- 802.21a  | Comment resolution- 802.21a | SRHO TG  | 802.21 WG Closing Plenary |
| **Eve** **6:30 – 7:30p** | Future Project Planning tentative |  Future Project Planning  | Social(TBD) |  |

## Meeting recess at 6:35PM