

Potential Areas for IETF/IEEE802 Coordination

0. Revision History

0.0 Initial Revision - 9/4/2012

0.1 revised for the period between 9/5 and 10/29

0.2 revised according to input received on 01, still reflects the 9/5-10/29 time interval

0.3 revised after the 10/29/12 meeting

0.4 revised for the period between 10/29 and 12/12

0.5 revised after the 12/17/12 meeting

0.6 revised for the period between 12/17/12 and 2/5/13

0.7 revised for the period between 2/5/13 and 4/30/13

0.8 revised after the 5/2/13 meeting

0.9 revised for the period between 5/2/13 and 9/22/13

0.10 revised after the 9/30 meeting

0.11 revised for the period between 9/30/13 and 1/22/14

0.12 revised after the 1/27/14 meeting

1. IETF TRILL Fine-grained labeling and IEEE 802.1 tags

1.1 Description - CLOSED

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2. IETF BFD and IEEE 802.1AX

2.1 Description - CLOSED

(Note: draft-ietf-bfd-on-lags was approved by the IESG on 12/19/2013)

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3. IETF NV03 and IEEE 802.1 DCB

3.1. Description

IEEE 802.1Qbg VDP might be used as the basis for the communication that NVO may need between an end system and an external box (e.g. bridge or router) doing the NVO encapsulation. Coordination will help determine if VDP is a suitable candidate and possibly to make any amendment needed in VDP for NVO usage.

Status 10/26 - not much progress. The NV03 working group continues to work on architecture and requirements. It remains unclear whether a "new" encapsulation will be required. Many people consider that there are enough encapsulations in the world already.

In the 10/29 meeting - concerns from the IEEE that some of the NVO requirement drafts say things about 802.1 and its capabilities that don't take all the capabilities into account. There are some above layer 2 reasons to do NVO, and we think the requirements doc would portray that more accurately going forward. Concerns with the way 802.1Q capabilities are being portrayed. Also there's an 802.1 protocol called DCB that may be useful and we want it to get fair consideration if it's a fit.

Status 12/17 (Pat, Adrian): Things are going fine, but we'll need to keep this open as things go along.

Status 4/30: draft-ietf-nvo3-overlay-problem-statement-02 is in WGLC, several comments from participants in both IEEE 802.1 and IETF

6/5/13: draft-ietf-nvo3-overlay-problem-statement-03.txt in IETF LC, announcement shared on list

Status 9/30/13 (Adrian): The problem statement document (draft-ietf-nvo3-overlay-problem-statement) has been approved for publication as an RFC and is currently with the RFC Editor.

A number of I-Ds that have been adopted for work by the working group may be of interest to the IEEE since they discuss the data plane:

- draft-ietf-nvo3-framework provides a framework for the NV03 solutions
- draft-ietf-nvo3-use-case tries to pick out the most common use cases
- draft-ietf-nvo3-dataplane-requirements attempts to list the requirements on an NV03 data plane
- draft-ietf-nvo3-gap-analysis considers existing protocols against the requirements. The solutions it currently examines are: NVGRE, VxLAN, VPLS, EVPN, and L3VPN.

Status 1/14/14 (Adrian): NV03 progresses steadily with notifications of progress being sent to this list from time to time

Status 1/28/14 (Pat): status of this item unchanged, the item will remain open as the drafts continue to develop.

3.2. Relevant Documents

<https://datatracker.ietf.org/liaison/1219/>

<http://datatracker.ietf.org/doc/draft-ietf-nvo3-overlay-problem->

statement - in RFC Queue

<http://datatracker.ietf.org/doc/draft-ietf-nvo3-framework> - in IESG review

<http://datatracker.ietf.org/doc/draft-ietf-nvo3-use-case>

<http://datatracker.ietf.org/doc/draft-ietf-nvo3-dataplane-requirements>

<http://datatracker.ietf.org/doc/draft-ietf-nvo3-gap-analysis>

3.3. Owners - Adrian Farrel, Pat Thaler

3.4. Action Items

- follow-up and send documents for review as they are adopted as WG items, WGLC and IETF LC.

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4. IETF awareness of IEEE 802.1Q-2011

4.1. Description - CLOSED

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5. Effect of virtualization on IEEE 802 architecture

5.1. Description

At the 7/25 f2f meeting Glenn Parsons presented a brief overview of the IEEE Registration Authority Committee (RAC) mission, highlighting the current RAC policy on virtualization and asking what virtualization policy would reduce the consumption of EUI-48 addresses. Norman Finn suggested this could be an area of collaboration between the IETF and the IEEE 802.

At the 9/5 virtual meeting Glenn Parsons reported that the action item from the last meeting on updating the IETF on virtualization at the Vancouver IETF Meeting (July/August, 2012) was completed.

Status 4/30 - Glenn Parsons submitted an I-D and gave presentations at IETF-86 in the Technical Plenary, OPS and INT area meetings. The IEEE RAC will finalize and approve the proposal by June.

9/9/13: draft-ieee-rac-oui-restructuring-01.txt submitted

Status 1/14/14 (Bob Grow): Right now that would just be a RAC document, but the RAC is open to considering an RFC or IEEE Recommended Practice as appropriate. ?General consensus from the RAC has been to proceed with

the RAC document before progressing to either of the standard documents.

Status 1/27/14 (Bob Grow): the RAC is planning to publish a statement on local addressing and seek IETF comment.

5.2. Relevant Documents

<http://www.iab.org/2012/12/13/proposed-ieee-registration-authority-committee-oui-tier-restructuring/>

<http://www.ietf.org/proceedings/86/slides/slides-86-iab-techplenary-5.pdf>

<https://datatracker.ietf.org/doc/draft-ieee-rac-oui-restructuring/>

5.3. Owners - Bob Grow

5.4. Action Items

- Bernard (as IAB chair) sent on 12/12/12 a message to ietf-announce asking for feedback on the Proposed IEEE Registration Authority Committee OUI Tier Restructuring
- Glenn to prepare the presentation for the technical plenary, and to submit companion I-D by end of January/early February - Done
- Follow approval in IEEE, and then close the item, if no work is further required in the IETF

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6. IETF EMU and IEEE 802.1X, 802.11 and 802.16 security based on EAP

6.1. Description - CLOSED

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7. IETF Ethernet MIB, ADSL MIB and IEEE 802.3

7.1. Description

In the transition process between the IETF and the IEEE the following documents were taken over by IEEE 802.3:

RFC 2108 - Ethernet Repeater Devices

RFC 3621 - Power Ethernet MIB

RFC 3635 - Ethernet-like Interface Types

RFC 3637 - Ethernet WAN Interface Sublayer

RFC 4836 - Ethernet Medium Attachment Units (MAUs)

RFC 4837 - Ethernet Passive Optical Networks (EPON)

RFC 4878 - Operations, Administration, and Maintenance (OAM) Functions on Ethernet-Like Interfaces

RFC 5066 - Ethernet in the First Mile Copper (EFMCu) Interfaces MIB

The IF-CAP-STACK-MIB in RFC 5066 is generic and the IETF proposed to continue to be maintained by the IETF in a separate new document
The IEEE 802.3 proposed to create an RFC that documents the issues related to the transition of the Ethernet MIB work to IEEE 802.3 similar to RFC 4663 which documents the transition of the Bridge MIB work to IEEE 802.1

- The OPSAWG was rechartered in October 2012 to include the two relevant documents

- Status 4/30/13: draft-ietf-opsawg-rfc5066bis received a number of substantial comments in the OPSAWG review which resulted in the need for substantial edits, revised version is still in progress. The second I-D was not submitted yet. The IEEE 802.3.1 completes Recirculation Sponsor Ballot on 4/30. Dan submitted an Approve ballot, the document is expected to be released in June, probably with reference to the Internet-Draft.

- Status 5/6/13: revised I-D draft-ietf-opsawg-rfc5066bis-02 was submitted, second Recirculation Ballot in IEEE 802.3.1 completed

- Status 6/19/13: IEEE standard approved

- Status 6/25/13: revised I-D draft-ietf-opsawg-rfc5066bis-03.txt submitted

- Status 8/13/13: IEEE standard published as IEEE 802.3.1-2013

- Status 9/30/13 (Benoit): draft-ietf-opsawg-rfc5066bis entered Working Group Last Call on 27 July 2013. Editorial changes are expected, and the next version will progress to IETF Last Call.

- draft-ietf-opsawg-rfc5066bis-07.txt approved by the IESG on 12/23/13 ? now in RFC Editor Queue

- Ed Beili to prepare initial I-D for MIB work transition before the IETF-89 submission cut-out date (2/14/14)

- Status 1/27/14 (Benoit Claise): draft-ietf-opsawg-rfc5066bis was approved by the IESG and is in the RFC Editor Queue. published as RFC 7124

- work on the document that would transfer MIB work to IEEE 802.1, expecting to see the first version of that document before the IETF 89 I-D submission deadline.

7.2. Relevant Documents

- IEEE 802.3.1-2013

- <http://datatracker.ietf.org/wg/opsawg/charter/>

- <https://datatracker.ietf.org/doc/draft-ietf-opsawg-rfc5066bis/>

7.3. Owners

- Benoit Claise, Dan Romascanu, Ed Beili (IETF), Howard Frazier (IEEE 802.3)

7.4. Action Items

- Dan Romascanu will enter the Sponsor Ballot pool and enter a comment suggesting that the IEEE 802.3 take out the IEEE8023-IF-CAP-STACK-MIB from their document and refer the IF-CAP-STACK-MIB instead done
 - Sponsor Ballot started, comments need to be submitted until 1/13 - Done
 - Ed Beili will write an I-D targeting standards track that obsoletes RFC 5066 and extract IF-CAP-STACK-MIB from RFC5056, with wording emphasizing the generic nature of this module - now on the OPSAWG charter, CRITICAL TIMING issue initial I-D to be submitted by 12/28, to become an OPSAWG document before 1/25 - done
 - Ed Beili will write an I-D targeting informational RFC, similar to RFC 4663, with:
 - a) Listing of all the RFCs obsoleted by the IEEE 802.3.1-2011
 - b) A table mapping the old IETF MIB names with the corresponding new IEEE ones
 - c) Clarifications/rules on the IETF-IEEE interactions, mailing lists, reviews
 - d) Clarifications on the intellectual property considerations
- The first version will be posted by Ed. Then Dan Romascanu and Howard Frazier will add IETF-IEEE interactions chapter. - Now on OPSAWG charter
- Howard Frazier to add an EDITOR'S NOTE in the current IEEE MIB document, to explain the situation - Done
 - Dan Romascanu will submit an Approve Ballot in the Recirculation Sponsor Ballot (if all related issues are addressed) - Done
 - Benoit to forward I-D for review when it reaches IETF LC - Done
 - Ed Beili to submit initial transition I-D for IETF-89

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8. IETF 6LOWPAN and IEEE 802.15

8.1. Description - CLOSED

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9. IETF PAWS WG and 802.11, 802.19, 802.22

9.1 Description

- At the 9/5 virtual meeting Bruce Kraemer volunteered that one of the IETF PAWS WG Chairs (Gabor Bajko) is active in 802.11. Dan Romascanu took an action item to clarify with Gabor Bajko and Pete Resnick if there are any action items that need to be taken immediately regarding coordination.

Gabors answer was that the coordination between IETF PAWS and IEEE 802.11af, 802.19 and 802.22 was so far handled by him; Gabor presented

periodic updates of PAWS to these IEEE 802 groups, and took their input back to PAWS. So far this type of coordination did the job, although in the future some of this interaction may need to be handled via the official channels.

- At the 10/29 meeting we confirmed the decision to take out IEEE 802.15 and IEEE 802.16 from the list. Coordination continues by now via participation of Gabor Bajko in both SD0s. Need confirmation this is OK with IEEE 802

- Status 4/30/13: draft-ietf-paws-problem-stmt-usecases-rqmts-15 was last-called and approved by the IESG, draft-ietf-paws-protocol is still in pre-WGLC state

- Status 5/2/13: reasonable progress with draft-ietf-paws-protocol, no worries about progress

- 6/20/13: Last Call issued on <http://tools.ietf.org/html/draft-ietf-paws-protocol-06>, sent to the coordination list

- Status 9/30/13 (Pete): The use cases document was published as RFC 6953. The protocol document (draft-ietf-paws-protocol) remains under discussion in the Working Group, but will likely go to Working Group Last Call sometime around the Vancouver IETF meeting.

Status 1/20/14 (Dorothy, Gabor): Version 8 of the paws protocol document was uploaded - no significant changes are expected, good time to send to IEEE 802.11 for review

9.2 Relevant Documents

- <http://datatracker.ietf.org/wg/paws/charter/>

- <http://www.rfc-editor.org/rfc/rfc6953.txt>

- <https://datatracker.ietf.org/doc/draft-ietf-paws-protocol/>

- <http://www.ietf.org/mail-archive/web/paws/current/msg01535.html>

9.3 Owners: Pete Resnick

9.4 Action Items

- clarify whether IEEE 802.11af, 802.19 and 802.22 are all the relevant groups within IEEE 802 that need coordination with PAWS, modify item title accordingly - Done

- Bruce to confirm the list and clarify at the IEEE plenary whether the current level of coordination is sufficient - Done

- PAWS WG chairs to notify the IEEE 802 WGs when documents reach Last Call - Done

- Dorothy Stanley to send draft-ietf-paws-protocol-08 to IEEE 802.11; collect and return comments until 2/21/14

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10. IETF IPPM and LMAP, and IEEE 802.16 Metrology Study Group- CLOSED,

will reopen if/when it becomes clear that interaction is needed

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11. IETF Mobile IP and EC OmniRAN Study Group

11.1. Description

At the 7/25 f2f meeting Roger Marks presented a proposal for a new IEEE 802 WG to specify access network abstraction layer above IEEE 802 access technologies, noting that the work is related to some IETF WGs (e.g. DMM, MIF, NETEXT), and made the following recommendations: - IEEE 802 OmniRAN can close the gap and tie 802 devices into a family of standards within a heterogeneous IP network supporting evolving IETF standards

- IEEE 802 and IETF should:

- * leverage each other's expertise
- * plan communications
- * identify commonalities
- * link solutions
- * organize a team to coordinate milestones and progress

At the 9/5 virtual meeting Roger Marks indicated he would be the owner of this item. An action item was identified: Roger Marks to form a team to discuss coordination with possible input from Brian Haberman and Charlie Perkins.

Roger reported in the 10/29 meeting that discussions are expected to be hold at the plenary meeting and he expects to have information to report after the plenary

Roger reported in a mail sent on 11/26 that the IEEE 802 Executive Committee (EC) initiated the EC OmniRAN Study Group. It is chartered through the March 802 Plenary, with an expectation of extension through July. Max Riegel is the chair.

Max Riegel sent a mail to the IESG on 12/11 including information on the Study Group

12/17 Status (Roger): Next Study Group meeting in January, will discuss requesting time in the INT Area meeting for a presentation and discussion

Status 4/30/13: OmniRAN presentation was given at the 3/6/13 face2face meeting followed by Q&A and discussions

Status 5/2: There is concern in 802 about what part of the problem belongs in 802 and if so in an existing group like .1 or .21, or a new group. Not expecting the group to settle on this until we're approaching the November meeting. Still working on the problem statement.

5/13: OmniRAN report presented at IEEE interim meeting - presentation pointer sent to the list

Status 9/30/13 (Max Riegel): The IEEE Study Group is working on a PAR to

submit for consideration at the IEEE 802 November meeting. He noted that the PAR is written for the lower layers, but that during the project there will be some interaction with IETF work on the higher layers.

OmniRAN PAR approved at the November plenary

Status 1/27/14 (Juan Carlos Zuniga): the PAR has been approved at the 802 level (now IEEE 802.1CF) and will define a network reference model and a functional description of the 802 architecture. He expects the work to be of interest from those involved in the DMM and MIF Working Groups on the IETF side.

11.2. Relevant Documents

<http://www.ieee802.org/OmniRANsg/>

<http://www.iab.org/wp-content/IAB-uploads/2013/01/omniran-13-0011-01-ecsg-omniran-introduction-and-way-forward.pptx>

<https://mentor.ieee.org/omniran/dcn/13/omniran-13-0030-04-ecsg-may-2013-waikoloa-agenda.pptx>

<https://mentor.ieee.org/omniran/dcn/13/omniran-13-0086-00-ecsg-proposed-par-and-5c.docx>

<http://www.ieee802.org/1/pages/802.1cf.html>

11.3. Owners - Max Riegel

11.4. Action Items

- Discuss communication and coordination level in the 12/17 meeting - Done
- IEEE will communicate after the January Interim whether to request presentation and discussion time in the INT Area meeting in Orlando. Done
- planning for a 30 min presentation on the OmniRAN SG at the face-to-face leadership meeting by Max Riegel - Done
- IEEE 802 will update about outcome of the SG work - probably after the November Plenary meeting - update to be provided in the 1/27/14 virtual meeting - Done
- Juan Carlos Zuniga and Max Riegel to write a revised, more focused description of this item for the shared items list.

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12. IETF HOKEY and IEEE 802.21

12.1. Description CLOSED

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13. IETF MIF and IEEE 802.21 - CLOSED, a new shared work item on naming in layer 2 networks will be open. Ted and Juan Carlos Zuniga to draft a description for the new shared work item.

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14. IETF IPFIX Information Elements for Data Link monitoring - CLOSED
(Note: draft-ietf-ipfix-data-link-layer-monitoring was approved by the IESG, the announcement was sent on 1/2/14)

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15. IETF RADIUS attributes for IEEE 802 networks
15.1 Description

The RADEXT WG specifies RADIUS attributes related to IEEE 802 network. Feedback from the IEEE on the attributes specifications would be appreciated.

RADIUS Attributes for IEEE 802 Networks
draft-ietf-radext-ieee802ext-02.txt

Abstract

RFC 3580 provides guidelines for the use of the Remote Authentication Dialin User Service (RADIUS) within IEEE 802 local area networks (LANs). This document proposes additional attributes for use within IEEE 802 networks, as well as clarifications on the usage of the EAP-Key-Name attribute, updating RFC 4072. The attributes defined in this document are usable both within RADIUS and Diameter.

Status 12/17: comments received from 802.11, but not from 802.1. I-D forwarded for comments to participants in the Security TF
Status 1/31: message from Mick Seaman - no comments from the Security TF
Status 4/30/13: second WGLC was distributed, comments received from Max Riegel need to be addressed
Status 5/2/13 (Benoit): One new revision of this was posted today. Not sure if this is final, a third WGLC until May 9th.
Status 7/13: draft-ietf-radext-ieee802ext-08.txt submitted and discussed at IETF-87 with remote participation from Mick Seaman
Status 9/30/13 (Benoit, Bernard): draft-ietf-radext-ieee802ext has gone through a third Working Group Last Call. There is one major issue, the

authors will post a proposed resolution to the issue shortly.
Status 1/22/14 - the document is in IETF Last Call, the announcement was forwarded to the shared list

Status 4/3 the IESG approved the I-D in the 3/27 telechat

15.2. Relevant Documents:

<http://datatracker.ietf.org/doc/draft-ietf-radext-ieee802ext/>

15.3. Owners

Bernard Adoba, the RADEXT chairs (Jouni Korhonen <jouni.korhonen@nsn.com> and Mauricio Sanchez <mauricio.sanchez@hp.com>), and Benoit Claise

15.4. Action Items

- address issues raised by Max Riegel in draft-03 - done
- send again document for comments when it reaches IETF Last Call Done
- IEEE 802.1 to provide IETF Last Call comments if any

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16. IEEE802.1Q SRP (and Gen2 updates) and RSVP/SIP - CLOSED

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17. IEEE 802.1AS/1588 and NTP - CLOSED

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18. 802.1AS/1588, 802.1Q time aware shaper(s) and RTP - CLOSED

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19. Common OAM proposal

19.1. Description - proposal made by Tissa Senevirathne and a group of TRILL contributors at the IEEE 802.1 meetings in July and September to reuse the IEEE 802.1ag frame format for TRILL OAM. Needs coordination and architectural consistency with the IEEE 802.1 architecture and OAM practice.

- discussion at the 10/29 meeting: The requirements doc is going through WGLC so will come to IESG fairly soon. The framework doc being considered as a WG doc, so it has some time before it will be published by the WG.

- Status 12/17 (Ralph): Had a conversation with the TRILL WG, they're going to progress the work for OAM for TRILL by progressing a requirements doc then a framework doc. If at that point they decided to go with an 802.1 base, they will go back to 802.1 and make sure that it doesn't infringe on the 802.1 OAM. But have to get the requirements and framework done first.
- Status 4/20/13: <https://datatracker.ietf.org/doc/draft-ietf-trill-oam-req/> was published as RFC 6905, draft-ietf-trill-oam-framework is discussed by the WG (pre-LC), draft-tissa-trill-oam-fm was not yet adopted as WG item
- Status 2/5/13 (Donald): Framework draft had a lot of comments, expecting to be WGLC soon. Fault management doc needs to be reviewed, and then there will be an effort to move that to WG doc. The performance management doc is not as far along.
- 8/20/13: The TRILL WG re-chartered, new charter includes OAM. Rechartering was communicated on the mail list.
- 9/25/13: Liaison Statement sent by the TRILL chairs to the IEEE 802 informing on the status of the work.
- 12/9/13: draft-ietf-trill-oam-framework approved by the IESG
- 1/22/14: new liaison statement sent by TRILL to IEEE 802.1
- Status 1/27/14 (Norman Finn, Donald): liaison from TRILL asking for code points from the Connectivity Fault Management protocol, Ethernet OAM, as was done with ITU a few years back. It allocates the blocks of code points to the IETF with the understanding that they will be assigned by IANA based on IETF Standards Actions and TRILL will be an early user of some values. Expected to pass.

19.2. Relevant Documents

<https://datatracker.ietf.org/doc/draft-ietf-trill-oam-req>
<http://www.ieee802.org/1/files/public/docs2012/liaison-tissa-oam-ieee-trill-0912-v02.pptx>
<https://datatracker.ietf.org/doc/draft-ietf-trill-oam-framework/>
<https://datatracker.ietf.org/doc/draft-tissa-trill-oam-fm/>
<http://datatracker.ietf.org/wg/trill/charter/>
<http://ieee802.org/1/files/public/docs2014/new-senevirathne-trill-oam-liaison-0114-v01.pptx>
<https://datatracker.ietf.org/liaison/1302/>

19.3. Owners - Ted Lemon, Norm Finn, Ben Mack-Crane

19.4. Action Items

Ralph will send the TRILL OAM requirements document to IEEE 802.1 expert review (Pat, Norm, possibly other) - Done
 Follow the TRILL OAM documents progress in the WG and send them for review to IEEE 802.1 when they reach milestones (WGLC, IETF LC)

This work item will remain open to monitor the status, as well as other more OAM-related I-Ds in the TRILL Working Group that should be reviewed by IEEE 802.1.

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20. Area Name - use of TRILL as an alternative path selection protocol for use in 802.11 mesh networks

20.1. Description - CLOSED

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21. 6tisch

21.1. Description:

Enable communication and cross-review between the 6tisch WG and IEEE 802

- In IEEE 802.15: (Bob): Go to the 802.15 website and look for L2R under public docs. The group formed in March with a goal to spend 6 months to end up at a project point.
- Status 9/22 - 6tisch charter in external review, on IESG agenda for 9/26, external review message distributed
- Status 9/30/13 (Ted): WG was chartered
- Presentation by Pascal Hubert at the IEEE 802 plenary - <https://mentor.ieee.org/802.15/dcn/13/15-13-0685-00-wng0-6tisch-802-1-for-a-new-ipv6-multilink-subnet.pptx>

21.2. Relevant Documents

- Mail list <https://www.ietf.org/mailman/listinfo/6tisch>
- <https://datatracker.ietf.org/wg/6tisch/charter/>
- <https://datatracker.ietf.org/doc/draft-ietf-6tisch-architecture/>
- <https://datatracker.ietf.org/doc/draft-ietf-6tisch-minimal/>
- <https://datatracker.ietf.org/doc/draft-ietf-6tisch-terminology/>
- <https://datatracker.ietf.org/doc/draft-ietf-6tisch-tsch/>

21.3. Owners: Ted Lemon, Bob Heile

21.4. Action Items

- follow the activities in the IETF and IEEE 802.15, share information informally until activities are chartered
- Follow the activities, send relevant documents from the 6tisch WG as they reach Last Call stages.

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22. CAPWAP extensions in OPSAWG

22.1. Description extensions to the CAPWAP protocol are being defined in the IETF OPSAWG. The OPSAWG will send the documents that relate to IEEE 802.11 technology to the IEEE 802.11 WG for expert review.

Status 1/27/14 (Benoit Claise) - there are two relevant drafts in Working Group Last Call. He sent out via email an updated description of this item, to be added to the next iteration of the shared work items list. Dan Romascanu will edit the shared work items list accordingly.

22.2. Relevant Documents

- <https://datatracker.ietf.org/doc/draft-ietf-opsawg-capwap-hybridmac/>
- <https://datatracker.ietf.org/doc/draft-ietf-opsawg-capwap-extension/>
- <https://datatracker.ietf.org/liaison/1312/>

22.3. Owners: Benoit Claise and Dorothy Stanley

22.4. Action Items

- Benoit to fill in the DESCRIPTION
- Benoit to ensure that OPSAWG chairs send documents at Last Call to IEEE 802.11
- Dorothy Stanley to channel requests for reviews and responses between the OPSAWG and IEEE 802.11

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23. Area Name - naming in layer 2 networks

23.1. Description

23.2. Relevant Documents

23.3. Owners

23.4. Action Items

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24. Area Name - coordination between the IETF and IEEE 802 on Pervasive Monitoring

24.1. Description

24.2. Relevant Documents

24.3. Owners

24.4. Action Items

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25. Area Name

25.1. Description

25.2. Relevant Documents

25.3. Owners

25.4. Action Items