1 2 3 4 Internet Architecture Board S. Dawkins, Ed. 5 Internet-Draft Huawei 6 Obsoletes: 4441 (if approved) P. Thaler 7 Intended status: Informational Broadcom 8 Expires: May 19, 2013 November 15, 2012 9 10 11 The IEEE 802 / IETF Relationship 12 draft-dawkins-iab-rfc4441rev-01.txt 13 14 Abstract 15 16 This document provides guidance to aid in the understanding of 17 collaboration on standards development between Project 802 of the 18 Institute of Electrical and Electronics Engineers (IEEE) and the 19 Internet Engineering Task Force (IETF). It is an almost complete 20 rewrite of, and is intended to replace, RFC 4441. The updates 21 reflect changes in the IETF and IEEE, and in the relationship between 22 the two organizations, since RFC 4441 was written. 23 24 Status of this Memo 25 26 This Internet-Draft is submitted in full conformance with the 27 provisions of BCP 78 and BCP 79. 28 Internet-Drafts are working documents of the Internet Engineering 29 30 Task Force (IETF). Note that other groups may also distribute 31 working documents as Internet-Drafts. The list of current Internet-32 Drafts is at http://datatracker.ietf.org/drafts/current/. 33 34 Internet-Drafts are draft documents valid for a maximum of six months 35 and may be updated, replaced, or obsoleted by other documents at any 36 time. It is inappropriate to use Internet-Drafts as reference 37 material or to cite them other than as "work in progress." 38 39 This Internet-Draft will expire on May 19, 2013. 40 41 Copyright Notice 42 43 Copyright (c) 2012 IETF Trust and the persons identified as the 44 document authors. All rights reserved. 45 46 This document is subject to BCP 78 and the IETF Trust's Legal 47 Provisions Relating to IETF Documents 48 (http://trustee.ietf.org/license-info) in effect on the date of 49 publication of this document. Please review these documents 50 carefully, as they describe your rights and restrictions with respect 51 to this document. 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 1] 56

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| 3 4 5 | 1. | Introduction an | d Scope | | | | |
| 6 7 8 9 10 11 12 | | This document pr understanding of Project 802 of t (IEEE) and the I Society (ISOC). will allow for c based on mutual | collaboration he Institute o nternet Engine Early identif onstructive ef | on stan f Electr ering Ta ication forts be | dards developmen ical and Electro sk Force (IETF) of topics of mut tween the two or | t between nics Enginee of the Inter ual interest | net |
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| 4 5 | 2. Guidance on Collaboration |
| 6 7 8 9 | This section describes how the existing processes within the IETF and IEEE 802 may be used to enable collaboration between the organizations. |
| 10 11 | 2.1. Organization, Participation and Membership |
| 12 13 14 15 | IEEE 802 and IETF are similar in some ways, but different in others. When working on projects that are of interest to both organizations, it's important to understand these differences. |
| 15 16 17 | 2.1.1. IEEE 802 Organization, Participation and Membership |
| 18 19 20 21 22 | In IEEE 802, work is done in Working Groups operating under an Executive Committee. Most Working Groups have one or more Task Groups. A Task Group is responsible for a project or group of projects. Each Working Group is led by a Working Group Chair. |
| 23 24 25 26 | The Executive Committee is comprised of the Executive Committee Chair, Executive Committee Officers (e.g. Vice-Chairs, Secretaries, Treasurer) and Working Group Chairs. |
| 27 28 29 30 31 | A good place to to learn more is the IEEE 802 Home Page, at http://www.ieee802.org/. An IEEE 802 Orientation for new participants that gives an overview of IEEE 802 process is available from the home page. |
| 32 33 34 35 36 37 | The IEEE 802 Executive Committee and all Working Groups meet three times per year at plenary sessions. Plenary sessions are held in March, July and November. Most Working Groups hold interim meetings, usually in January, April and September. The meeting schedule can be found at http://www.ieee802.org/meeting/index.html. |
| 37 38 39 40 41 42 43 44 45 46 47 | A Study Group is a group formed to consider starting a new project and, if new work is found to be suitable, to develop an IEEE Project Authorization Request (PAR - similar in purpose to an IETF working group charter). A Study Group may operate under a Working Group or under the Executive Committee depending on whether the new work under consideration falls within the scope of an existing Working Group. Study Groups are expected to exist for a limited time, usually for one or two plenary cycles, and must be authorized to continue at each plenary if they have not completed their work. |
| 48 49 50 51 52 53 54 | Participation in IEEE 802 Working Groups is by individual and is open. Individuals are required to declare their affiliation (i.e. any individual or entity that financially or materially supports the individual's participation in IEEE 802). |
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4 Working Groups maintain membership rosters, with voting membership 5 attained on the basis of in-person meeting attendance. Retention of 6 voting membership generally requires continued attendance and 7 responsiveness to letter ballots. Voting membership allows one to 8 vote on motions and on Working Group Ballots of drafts. All drafts 9 are also balloted by a Sponsor Ballot pool before approval as 10 standards. Joining a Sponsor Ballot pool does not require 11 participation in meetings. One does not need to be a voter to 12 comment on drafts and the Working Group is required to consider and 13 respond to all comments submitted during Working Group and Sponsor 14 ballots. 15

16 To foster ongoing communication between IEEE 802 and IETF, it is 17 important to identify and establish contact points within each 18 organization. Contact points on the IEEE side may include: 19

20 EDITOR'S NOTE: I see that Pat starts her list at the working group 21 level, while the IETF list starts with the area directors. Am I 22 remembering Pat saying that these are roughly equivalent, so IEEE 802 23 working groups are NOT the peers of IETF working groups? If so, we 24 should probably point that out in the "Cultural Differences" section.

- IEEE Working Group Chair: An IEEE Working Group chair is an individual who is assigned to lead the work of IEEE in a particular area. IEEE Working Group chairs are elected by the Working Group and confirmed by the Executive Committee for a 2 year term. Collaboration here is provides a stable contact point for work between the two organizations for a given topic.
- IEEE Task Group (or Task Force) Chair: An IEEE Task Group chair is an individual who is assigned to lead the work on a specific project or group of projects within a Working Group. Task Group Chairs often serve for the duration of a project. Collaboration here is beneficial to ensure that work on a particular project is coordinated.
- IEEE Study Group Chair: An IEEE Study Group Chair is an individual 41 42 assigned to lead consideration of new work and development 43 of an IEEE Project Authorization Request (PAR). 44 Collaboration here is useful for providing input on the 45 scope of new work and to begin coordination.
- 47 IEEE Liaisons: It may be beneficial to establish lisisons as 48 additional contact points for specific topics of mutual 49 interest. These contact points should be established early 50 in the work effort, and in some cases the contact point 51 identified by each organization may be the same individual. 52

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1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 4 Informal Contact points: Other informal contacts can provide useful 5 collaboration points. These include project editors who 6 are responsible for editing the drafts and work with the 7 Task Group Chairs to lead tracking and resolution of 8 issues. Joint members who are active in both the IEEE and 9 IETF projects in an area can also aid in collaboration. 10 11 2.1.2. IETF Organization, Participation and Membership 12 13 In the IETF, work is done in working groups (WGs), mostly through 14 open, public mailing lists rather than face-to-face meetings. WGs 15 are organized into areas, each area being managed by two co-area 16 directors. Collectively, the area directors comprise the Internet 17 Engineering Steering Group (IESG). 18 19 IETF meets in plenary session three times per year. Some working 20 groups have additional interim meetings, which may be either face-to-21 face or "virtual", but this is not true for most IETF working groups, 22 at any given time. The goal is to do work on mailing lists, 23 reserving face-to-face sessions for topics that have not been 24 resolved through previous mailing list discussion. Information about 25 plenary meetings is available at 26 http://www.ietf.org/meeting/upcoming.html. Information about working 27 group interim meetings is available on the IETF-Announce mailing list 28 (see http://www.ietf.org/list/announcement.html) for archives and 29 subscription information). 30 31 Participation in the IETF is open to anyone (technically, anyone with 32 access to e-mail sufficient to allow subscription to one or more IETF 33 mailing lists). All IETF participants act as individuals. There are 34 a small number of IETF procedures that recognize organizations that 35 may sponsor IETF participants, but these are organizational and do 36 not apply to the standard specification process itself. There is no 37 concept of "IETF membership". 38 39 A good place to to learn more is the IETF Home Page, at 40 http://www.ietf.org/, and especially the "About the IETF" page at http://www.ietf.org/about, selectable from the IETF Home Page. 41 42 43 To foster ongoing communication between IEEE 802 and IETF, it is 44 important to identify and establish contact points within each organization. Contact points on the IETF side may include: 45 46 47 IETF Area Director: An IETF area director is the individual 48 responsible for overseeing a major focus of activity (an 49 "Area"). These positions are relatively long- term (of 50 several years) and offer the stability of contact points 51 between the two organizations for a given topic. 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 7] 56

1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 4 IETF Working Group Chair: An IETF working group chair is an 5 individual who is assigned to lead the work on a specific 6 task within one particular area. These positions are 7 working positions (of a year or more) that typically end 8 when the work on a specific topic ends. Collaboration here 9 is very beneficial to ensure the actual work gets done. 10 11 Other Contact Points: It may be beneficial to establish additional 12 contact points for specific topics of mutual interest. 13 These contact points should be established early in the 14 work effort, and in some cases the contact point identified 15 by each organization may be the same individual. 16 17 Note: The current list of IETF area directors and working group 18 chairs can be found in the IETF working group charters, at 19 http://datatracker.ietf.org/wg/. 20 21 2.1.3. Cultural Differences 22 23 EDITOR'S NOTE: What else do we need to mention here? 24 25 It's worth noting that IEEE 802 and IETF have cultures that are 26 similar, but not identical. Some of the differences include: 27 28 Consensus and Rough Consensus: Both organizations make decisions 29 based on consensus, but in the IETF, "consensus" means 30 "rough consensus". In practice, this means that a large 31 part of the community being asked needs to agree. Not 32 everyone has to agree, but if you disagree, you'll need to 33 convince other people of your point of view. If you're not 34 able to do that, you'll be "in the rough" when "rough 35 consensus" is declared. 36 37 Rough Consensus and Running Code: David Clark coined the phrase "we 38 believe in rough consensus and running code" in 1992, to 39 explain IETF culture. Although that's not always true 40 today, the existence of "running code" as a proof of feasibility for a proposal often carries weight during 41 42 technical discussions. IEEE 802 standards may be less 43 amenable to one-off implementation, whether as hardware or 44 as software. 45 46 Voting: Both organizations use voting as a decision-making tool, 47 but IEEE 802 uses voting within working groups, while IETF 48 does not. The IESG DOES ballot documents when considering 49 them for publication, and working group chairs may ask for 50 a "show of hands" or "take a hum" to judge backing for a 51 proposal, but IETF working groups don't vote. 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 8] 56

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4 Balance between mailing lists and meetings: Both organizations make 5 use of mailing lists, but IETF working groups really can't 6 get anything done without mailing lists, which is where 7 work can continue between formal meetings. The IETF 8 requires all decisions to be made (or, often in practice, 9 confirmed) on mailing lists - final decisions aren't made in meetings. It's also worth noting that IETF working 10 11 group sessions are much shorter than IEEE 802 working group 12 sessions - it's not unusual for an IETF working group to 13 meet once or twice in a plenary meeting, for a maximum of 14 two and a half hours per session. Some working groups may 15 not meet at all in plenary, and others may have a single 16 one-hour session. 17

Interim meetings: Both organizations use interim meetings (between plenary meetings), but this is more common for IEEE 802 working groups than for IETF working groups, which schedule interim meetings on an as-needed basis. While the IETF interim meetings may be face-to-face or virtual, the IEEE 802 interim meetings are face-to-face only. Many IEEE 802 WGs hold regularly interim meetings three times a year in the middle of the intervals between the Plenary meetings. The schedules and location of these meetings are typically known many months in advance.

Remote participation: Because the IETF doesn't make decisions at face-to-face meetings, it's not strictly necessary to attend face-to-face meetings at all! Some significant contributors don't attend most face-to-face IETF meetings, although if you want to find collaborators on a proposal for new work, or solicit backing for your ideas, you'll probably find that easier in a face-to-face conversation, often in a hallway and sometimes in a bar. IEEE 802 significant contributors almost always attend face-to-face meetings. Participation in IEEE 802 meetings is a condition for WG membership.

Working group autonomy: Both IEEE 802 and IETF allow working groups considerable autonomy (within the documented process) in getting work done. It's worth noting that there may be differences between two IEEE 802 working groups, or between two IETF working groups, in addition to differences between an IEEE 802 working group and an IETF working group.

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1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 4 2.2. Exchange of information about new Work Items 5 6 The following sections outline a process that can be used to enable 7 each group to be informed about the other's active and proposed new 8 work items. 9 2.2.1. How IEEE 802 is informed about active IETF work items 10 11 12 The responsibility is on individual IEEE 802 working groups to review 13 the current IETF working groups to determine if there are any topics 14 of mutual interest. Working group charters and active Internet-Drafts can be found on the IETF web site 15 16 (http://datatracker.ietf.org/wg/). If an IEEE 802 working group 17 identifies a common area of work, the IEEE 802 working group 18 leadership should contact both the IETF working group chair and the 19 area director(s) responsible. This may be accompanied by a formal 20 liaison statement (see Section 2.6.2). 21 2.2.2. How IETF is informed about active IEEE 802 work items 22 23 24 IEEE Working Group status reports are published at the beginning and 25 end of each plenary at http://ieee802.org/minutes on the IEEE 802 26 website. Each Working Group includes a list of their active projects 27 and the status. 28 29 The charter of an IEEE 802 project is defined in an approved Project 30 Authorization Request (PAR). PARs are accessible in IEEE Standards 31 myProject, at https://development.standards.ieee.org/my-site. Access 32 requires an IEEE web account which is free and has no membership 33 requirement. 34 35 EDITORIAL NOTE: I have text from Pat that says MyProject is free, and 36 from Eric that says it requires IEEE and IEEE SA membership, and both 37 involve paying a fee. Pat and Roger are investigating how much you 38 can do with a login, without membership - I'll update when they 39 report back ... 40 41 In myProject, a search on "View Active PARs" for 802 will bring up a 42 list of all active IEEE 802 PARs. 43 44 The responsibility is on individual IETF working groups to 45 periodically review the information on the IEEE 802 web site to 46 determine if there is work in progress of mutual interest. 47 48 If an IETF working group identifies a common area of work or a need 49 for coordination, the working group leadership should contact the 50 IEEE 802 Working Group chair and Task Group chair. This may be 51 accompanied by a formal liaison statement (see Section 2.6.2). 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 10] 56

1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 4 2.2.3. How IEEE 802 is informed about proposed new IETF work items 5 6 The IETF maintains a mailing list for the distribution of proposed 7 new work items among standards development organizations. Many such 8 items can be identified in proposed Birds-of-a-Feather (BOF) 9 sessions, as well as draft charters for working groups. The IETF 10 forwards all such draft charters for all new and revised working 11 groups and BOF session announcements to the IETF new-work mailing 12 list. An IEEE 802 mailing list is subscribed to this list. 13 Leadership of the IEEE working groups may subscribe to this IEEE 802 14 mailing list, which is maintained by the Executive Committee (EC). 15 16 Each IEEE 802 Working Group will delegate at least one expert to 17 subscribe to this list and be ready to dispatch any information 18 relevant for their activity. This will enable the IEEE 802 working 19 groups to monitor the new work items for possible overlap or interest 20 to their IEEE 802 working group. It is expected that this mailing 21 list will see a few messages per month. 22 23 Each IEEE 802 working group chair, or designated representative, may 24 provide comments on these charters by responding to the IESG mailing 25 list at iesg@ietf.org clearly indicating their IEEE 802 position and 26 the nature of their concern. Plain-text email is preferred on the 27 IESG mailing list. 28 29 It should be noted that the IETF turnaround time for new working 30 group charters can be as short as two weeks. As a result, the IETF 31 Announce mailing list should be monitored consistently. 32 33 2.2.4. How IETF is informed about proposed new IEEE 802 work items 34 35 An IEEE project is initiated by approval of a Project Authorization 36 Request (PAR) which includes a description of the scope of the work. 37 Any IEEE 802 PARs which introduce new functionality are required to 38 be available for review no less than 30 days prior to the Monday of 39 the IEEE 802 plenary session where they will be considered. 40 41 IEEE considers Five Criteria when deciding whether to approve new 42 work: Broad Market Potential, Compatibility, Distinct Identity and 43 Technical Feasibility. The criteria are defined in the IEEE 802 LAN/ 44 MAN Standards Committee (LMSC) Operations Manual. The PARs are 45 accompanied by responses on the 5 Criteria. 46 47 Each Area Director shall ensure that at least one person is 48 designated to periodically review relevant PAR and 5 Criteria 49 information to determine if there is proposed work of mutual 50 interest. 51 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 11] 56

1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 4 Any comments on proposed PARs should be submitted to the Working 5 Group chair and copied to the Executive Committee chair by e-mail not 6 later than 5:00 PM Tuesday of the plenary session (in the time zone 7 where the plenary is located). 8 2.2.5. Other Mechanisms for Coordination 9 10 11 From time to time, IEEE 802 and IETF may agree to use additional 12 mechanisms for coordination between the two groups. We mention that 13 here, so that readers will know to ask about this. 14 15 2.3. Document Access 16 17 During the course of IEEE 802 and IETF collaboration, it is important 18 to share internal documents among the technical working groups. In 19 addition, draft standards, Internet Drafts, and RFCs may also be 20 distributed. 21 22 2.3.1. IEEE 802 Documentation System 23 24 Each IEEE 802 standardization project is assigned to a Working Group 25 (WG) for development. In IEEE 802, the working methods of the WGs 26 vary in detail. The documentation system is one area in which WG 27 operations differ, based on varying needs and traditions. In some 28 cases, the WGs assign the core development to a subgroup (typically 29 known as a Task Group or Task Force), and the documentation 30 procedures may vary among the subgroups as well. Prior to project 31 authorization, or on topics not directly related to development of a 32 standard, the WG may consider and develop documents itself, or using 33 other subgroups (standing committees, ad hocs, etc.). 34 35 IEEE 802 also supports Technical Advisory Groups (TAGs) that conduct 36 business and develop documents, although not standards. References 37 here to WGs apply to TAGs as well. 38 39 2.3.1.1. IEEE 802 Documentation System 40 41 In general, development of standards is IEEE 802 is contribution-42 driven. Content toward draft standards is submitted to WGs by 43 individual participants, or groups of participants. Content toward 44 other group documents (such as, for example, external communication 45 statements or foundation documents underlying a draft standard) might 46 also be contribution-driven. At some point, the group assembles contributed material to develop group documents, and revision takes 47 48 place within group meetings or by assignment to editors. For the 49 most part, the contributions toward discussion as well as the group 50 documents (including minutes and other reports) are openly available 51 to the public. 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 12] 56

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1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 4 straightforward to find documents of interest by reviewing the 5 group's main web page. These web page addresses follow this 6 convention: the IEEE 802.1 main web page is at http://ieee802.org/1, 7 while the IEEE 802.11 main web page is at http://ieee802.org/11 - in 8 other words, the one-digit or two- digit numerical desigation for the 9 WG or TAG appears as the "path" in the URL. 10 11 In some cases, links to documents may be available only by reviewing 12 the WG or subgroup meeting minutes. 13 14 2.3.1.3. Submission of Contributions to IEEE 802 Working Groups 15 16 IEEE 802 Working Groups are open to contribution. In many cases, a 17 WG or subgroup will issue a call for contributions with a specific 18 technical solicitation, including deadlines and submission 19 instructions. Some groups maintain specific submission procedures 20 and specify a contribution cover sheet to clarify the status of the 21 contribution. 22 23 2.3.1.4. Access to IEEE 802 Working Group Drafts 24 25 The IEEE owns the copyright to draft standards developed within IEEE 26 standardization projects. As a result, such drafts are never made 27 publicly available. The IEEE-SA grants permission for an IEEE draft 28 standard to be distributed without charge to the participants for 29 that IEEE standards development project. Typically, such 30 distribution is on the Internet under password protection, with the 31 password provided to members of the participating WG. Requests to 32 the relevent WG chair for access to a draft for purposes of 33 participation in the project are typically granted. In some cases, 34 under an organizational agreement, the IEEE-SA allows for ready 35 document exchange with other entities. No such agreement currently 36 exists to cover exchanges between IEEE-SA and IETF. 37 38 2.3.1.5. Access to IEEE 802 Standards 39 40 IEEE standards, once approved, are published and made available for 41 sale. They can be purchased from the IEEE Standards Store, at 42 http://www.techstreet.com/ieeegate.html. They are also available 43 from other outlets, including the IEEE Xplore digital library, at 44 http://ieeexplore.ieee.org. 45 46 The Get IEEE 802 program, at http://standards.ieee.org/about/get, 47 grants public access to download individual IEEE 802 standards at no 48 charge. IEEE 802 standards are added to the Get IEEE 802 program six 49 months after publication. 50 51 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 14] 56

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| 4 | 2.3.2. Access to IETF Documents |
| 5 6 7 8 9 10 | IETF Internet-Drafts may be located using IETF "Datatracker" inteface at https://datatracker.ietf.org, or via the IETF tools site at http://tools.ietf.org. RFCs may be located at either of the above, or at via the RFC Editor site at http://www.rfc-editor.org. |
| 11 12 13 14 15 | IEEE 802 can make selected IEEE 802 documents at any stage of development available to the IETF by attaching them to a formal liaison statement. Although a communication can point to a URL where a non-ASCII document (e.g., Word) can be downloaded, attachments in proprietary formats to an IETF mailing list are discouraged. |
| 16 17 18 | It should also be recognized that the official/athoritative versions of all IETF documents are in ASCII. |
| 19 20 | 2.4. Participation in Document Review and Approval |
| 21 22 23 24 25 | EDITOR'S NOTE: we discussed moving part of this section to Expert Review. That's not a small change, so I'll wait until people have a chance to think about it, before proposing text. |
| 26 27 28 29 30 | During the course of IEEE 802 and IETF collaboration, it is important for technical experts to review documents of mutual interest and, when appropriate, to provide review comments to the approving body as the document moves through the approval process. |
| 31 32 33 | 2.4.1. IEEE 802 draft review and balloting processes and opportunities for IETF participation |
| 34 35 36 37 | IEEE 802 drafts are reviewed and balloted at multiple stages in the draft. Any ballot comments received from non-voters before the close of the ballot are required to be considered in the comment resolution process. |
| 38 39 40 41 42 43 44 45 46 47 48 49 | IEEE 802 draft reviews and ballots sometimes produce a large volume of comments. In order to handle them efficiently, spreadsheets or a comment database tool are used. It is highly recommended that balloters and others submitting comments do so with a .csv file that can be imported into these tools. A file with the correct format is normally referenced in the ballot announcement or can be obtained from the Editor, Task Group Chair or Working Group Chair responsible for the project. Comments on a draft should be copied to the Editor, Task Group Chair and Working Group Chair. |
| 49 50 51 52 53 54 55 56 | Dawkins & Thaler Expires May 19, 2013 [Page 15] |

1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 4 2.4.1.1. Task Group Review 5 6 During draft development, informal task group reviews (task group 7 ballots) are conducted. Though these are called "ballots" by some 8 Working Groups, the focus is on collecting and resolving comments on 9 the draft rather than on trying to achieve a specific voting result. 10 11 2.4.1.2. Working Group ballot 12 13 Once the draft is substantially complete, Working Group ballots are 14 conducted. Working Group voting members are entitled and required to 15 vote in Working Group ballots. Any disapprove votes are required to 16 be accompanied by comments that indicate what the objection is and a 17 proposed resolution. Approve votes may also be accompanied by 18 comments. The comments submitted with a disapprove vote may be 19 marked to indicate which comments "be satisfied" to change the vote. 20 21 Initial Working Group ballots are at least 30 days. Recirculation 22 ballots to review draft changes and comment resolutions are at least 23 10 days. 24 25 2.4.1.3. Sponsor Ballot 26 27 When a draft has successfully completed Working Group ballot, it 28 proceeds to Sponsor ballot. One may participate in IEEE 802 Sponsor 29 Ballots with an individual membership in the IEEE Standards 30 Association (IEEE-SA) or by paying a per-ballot fee. (See IEEE-SA 31 membership.) Participants are also required to state their 32 affiliation and the category of their relationship to the scope of the standards activity (e.g. producer, user, general interest). 33 34 Note to the reader: The yearly cost of membership in the IEEE-SA is 35 36 generally about the same or less as the per-ballot fee, so it is 37 generally more economical to join the IEEE-SA. 38 39 Information about IEEE-SA membership can be found at 40 http://standards.ieee.org/membership/ 41 42 Sponsor ballot is a public review. An invitation is sent to any 43 parties known to be interested in the subject matter of the ballot. 44 One can indicate interest in IEEE myProject. An IEEE web account freely available, and is required for login. To select interest 45 46 areas, go to the Projects tab and select Manage Activity Profile and 47 check any areas of interest. IEEE 802 projects are under Computer 48 Society; LAN/MAN Standards Committee. 49 50 The Sponsor Ballot pool is formed from those that accept the 51 invitation during the invitation period. 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 16] 56

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| 7 8 9 10 11 12 | tha res com whi | t indicate wh olution. App ments submitt | votes are requ at the objectic rove votes may ed with a disag eed to "be sati prove". | on is, also k oprove | along wit be accompa vote may | h a propos nied by co be marked | sed omments. to indica | The te | | |
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| 17 18 19 20 21 | | to find a pl | heck that all g ace to post a k | | | | | | | |
| 21 22 23 24 | 2.4.2. | | review and ball rticipation | oting | processes | and oppor | rtunities | for | | |
| 24 25 26 27 | | | Group Process rocess is defir | | | CP-25. Tł | ne overall | - | | |
| 28 29 30 | As noted in <cultdiff>, IETF working groups do not "ballot", but the IESG does, as part of considering documents for approval.</cultdiff> | | | | | | | | | |
| 31 32 33 34 | Technical contributions are welcome at any point in the IETF document review and approval process, but there are some points where contribution is more likely to be effective. | | | | | | | | | |
| 35 36 37 | 1. | | ng group is con tion is often s | | | | | | | |
| 38 39 40 41 42 43 | 2. | for a draft. document rev issue WGLCs | ng group issues Although this iew and approva for most workin the working gro | s is no 1 proc 1g grou | ot a manda cess, most up documen | tory step IETF wor ts. WGLC | in the king group | | | |
| 44 45 46 47 48 49 50 51 52 53 | When the Internet Engineering Steering Group issues an "IETF Last Call" ("Last Call") for a draft. This is similar in spirit to WGLC, but is a request for review and approval that is addressed to the larger IETF community. IETF Last Call is signaled on the IETF-Announce Mailing List, and comments and feedback are ordinarily directed to the IETF Discussion Mailing List. | | | | | | | | | |
| 55 54 55 56 | Dawkin | s & Thaler | Expires | May 19 | 9, 2013 | | [Page | e 17] | | |

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52 53 In practice, earlier input is more likely to be effective input. The IETF Liaison Manager should provide early notification of upcoming Working Group Last Calls and IETF Last Calls, for best results.

8 2.5. Expert Review Processes

10 With the areas of cooperation between IEEE 802 and IETF increasing, 11 the document review process has extended beyond the traditional 12 subjects of SNMP MIBs and AAA. For example, as part of the IETF 13 CAPWAP WG charter, IEEE 802.11 was asked to review the CAPWAP Taxonomy Document [RFC4118]; Dorothy Stanley organized an ad hoc 14 15 group for this purpose. IEEE 802.11 has also reviewed [IDSEL] and 16 [IABLINK]. Within IETF, IEEE 802 comments are resolved using normal 17 WG and IETF processes.

19 EDITOR'S NOTE: the previous text is cut-and-pasted out of 4441. We 20 could reasonably point out that we're moving beyond 4441 in the same 21 way that we moved beyond SNMP MIBs and AAA, but Spencer would be more 22 comfortable if we weren't calling out names in this way, even if we 23 write that text. Spencer suggests just saying "we've moved on".

25 IETF participants can comment as part of the IEEE 802 ballot process, 26 regardless of their voting status within IEEE 802. Comments must be 27 composed in the format specified for the ballot, and submitted by the 28 ballot deadline.

30 2.6. Liaison Officials and Liaison Statements

32 EDITOR'S NOTE: This section is written mostly from an IETF 33 perspective. If there are helpful things to say about IEEE 802 34 liaison processes, that would be great to add. :-)

36 Both IEEE 802 and IETF work best when people participate directly in 37 work of mutual interest, but that's not always possible, and 38 individuals speaking as individuals may not provide effective 39 communication between the two SDOs. From time to time, it may be 40 appropriate for a technical body in one SDO to communicate as a body 41 with a technical body in the other SDO. This section describes the 42 mechanisms used to provide formal communication between the two 43 organizations, should that become necessary.

- 45 The Internet Architecture Board (IAB) is responsible for liaison 46 relationship oversight for the IETF.
- 48 The reader should note that the role of a liaison official in both 49 IEEE 802 and IETF is not to "speak for" the appointing organization. 50 A liaison official is most helpful in insuring that neither 51 organization is surprised by what's happening in the other

54 55 Dawkins & Thaler Expires May 19, 2013 [Page 18] 56

Internet-Draft The IEEE 802 / IETF Relationship November 2012 organization, helping to identify the right people to be talking to in each organization, and making sure that formal liaison statements don't "get lost" between the two organizations. The IAB's guidance to liaison managers is available in http://tools.ietf.org/html/rfc4691. 2.6.1. Liaison Officials IETF Liaison Officials (called "Liaison Managers" in the IETF) are appointed by the IAB, using the process described in http://tools.ietf.org/html/rfc4052. The current list of the IETF's liaison relationships, and the liaison officials responsible for each of these relationships is available at http://www.ietf.org/liaison/managers.html. 2.6.2. Liaison Statements The IETF process for sending and receiving liaison statements is defined at http://tools.ietf.org/html/rfc4053. Dawkins & Thaler Expires May 19, 2013 [Page 19]

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3. Mailing Lists

All IETF working groups and all IEEE 802 Working Groups have associated mailing lists. Most IEEE 802 Task Groups also have mailing lists, but in some cases, e.g.the IEEE 802.1 Working Group, the Working Group mailing list is used for any Task Group matters.

In the IETF, the mailing list is the primary vehicle for discussion and decision-making. It is recommended that IEEE 802 experts interested in particular IETF working group topics subscribe to and participate in these lists. IETF WG mailing lists are open to all subscribers. The IETF working group mailing list subscription and archive information are noted in each working group's charter page.

In IEEE 802, mailing lists are typically used for meeting logistics, ballot announcements, reports and some technical discussion. Most decision making is at meetings, but in cases where a decision is needed between meetings, it may be done over the mailing list. Most technical discussion occurs at meeting and by generating comments on drafts which are compiled with responses in comment resolution documents.

EDITOR'S NOTE: IEEE 802 is considering making mailing list participation more uniform, but that will be discussed at the IEEE 802 plenary in November

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| 14 15 16 17 18 | | IEEE standards m available and re possible. | - | | | | | | lily |
| 19 20 21 22 23 | | EDITOR'S NOTE: T after 6 months, drafts are still Drafts now quali | AND WERE I available | NO LONG e withd | GER RI Dut a | ETRIEVABLE subpoena. | - but now Do we th | w, expired | 1 |
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1 Internet-Draft The IEEE 802 / IETF Relationship November 2012 2 3 5. Protocol Parameter Allocation 4 5 6 Both IEEE 802 and IETF maintain registries of assigned protocol 7 parameters, and some protocol parameters assigned in one organization 8 are of interest to the other organization. This section describes 9 the way each organization registers protocol parameters. 10 11 5.1. IANA 12 13 The IETF uses the Internet Assigned Numbering Authority (IANA) as a registry for protocol parameter allocation. The overarching document 14 15 describing this is RFC 5226. RFC 5342 discusses use of IEEE 802-16 specific IANA parameters in IETF protocols and specifies IANA 17 considerations for allocation of code points under the IANA OUI 18 (Organizationally Unique Identifier). 19 20 5.2. IEEE Registration Authority 21 22 EDITOR'S NOTE: This section is on one (important) specific example -23 do we need text that describes the RAC and general operation first? 24 25 EDITOR'S NOTE: Eric suggested asking Glenn Parson to provide text 26 here. 27 28 EtherType Allocation - The EtherType field is very limited, so that 29 allocations are made solely on an "as needed" basis. For related 30 uses, a single EtherType should be requested, with additional fields 31 serving as sub-protocol identifiers, rather than applying for 32 multiple EtherTypes. EtherType allocation policy is described in 33 [TYPE-TUT]. 34 35 While a fee is normally charged by IEEE 802 for the allocation of an 36 EtherType, IEEE 802 will consider waiving the fee for allocations 37 relating to an IETF standards track document, based on a request from 38 the IESG. 39 40 EDITOR'S NOTE: Need to mention OUIs, and that IANA has only one? 41 42 5.3. IEEE Registration at IEEE working group level 43 44 Need text here - don't need to say much about this, but do need to 45 say that these registrations exist. 46 47 5.4. Pointers to Additional Useful Information 48 49 This section provides pointers to additional useful information for 50 paricipants in IEEE 802 and IETF. 51 52 53 54 55 Dawkins & Thaler Expires May 19, 2013 [Page 22] 56

| 1 2 | Internet-Draft The IEEE 802 / IETF Relationship November 2012 |
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| 3 4 5 | 5.4.1. IEEE 802 Information that may be useful to IETF participants |
| 6 7 | IEEE Home Page: http://ieee802.org/ |
| , 8 9 | IEEE 802 policies and procedures: http://ieee802.org/devdocs.shtml" |
| 10 | 5.4.2. IETF Information that may be of use to IEEE 802 participants |
| 11 12 13 | Information on IETF procedures may be found in the documents in the informative references, and URLs below. |
| 14 15 16 17 | Note: RFCs do not change after they are published. Rather, they are either obsoleted or updated by other RFCs. Such updates are tracked in the rfc-index.txt file. |
| 18 19 20 21 | Current list and status of all IETF RFCs: ftp://ftp.ietf.org/rfc/rfc-index.txt |
| 22 23 24 | Current list and description of all IETF Internet-Drafts: ftp://ftp.ietf.org/internet-drafts/1id-abstracts.txt |
| 25 26 27 28 | Current list of IETF working groups and their Charters: http://www.ietf.org/dyn/wg/charter.html (includes area directors and chair contacts, mailing list information, etc.) |
| 29 30 | Current list of registered BOFs: http://trac.tools.ietf.org/bof/trac, |
| 31 32 33 34 35 | RFC Editor pages about publishing RFCs: http://www.rfc-editor.org/index.html (including available tools and lots of guidance) http://www.rfc-editor.org/pubprocess.html is particularly helpful. |
| 36 37 38 | Current list of liaison statements: https://datatracker.ietf.org/liaison/ |
| 39 40 41 | IETF Intellectual Property Rights Policy and Notices: http://www.ietf.org/ipr/ |
| 42 43 44 | The Tao of the IETF: http://www.ietf.org/tao.html (A Novice's Guide to the Internet Engineering Task Force) |
| 45 46 47 48 49 50 51 52 53 | |
| 54 55 56 | Dawkins & Thaler Expires May 19, 2013 [Page 23] |

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| 54 55 | ז≃ת | vking | & Thaler | | ۲v | nireg | May 1 | 9, 2013 | | [Page | 241 |
| 56 | Dav | *171110 | u marer | | إحمن | 21100 | may 1 | 2, 201J | | Lraye | <u>د</u> ۲] |

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| 3 4 5 | 7. | Security Conside | erations | | | | |
| 6 7 | | Documents that de have no direct In | | | | | is one does, |
| 8 9 10 11 2 13 14 15 16 7 18 9 20 22 22 22 22 22 22 22 22 23 3 3 23 33 35 36 7 88 9 41 42 43 44 5 46 7 48 9 00 12 23 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | EDITOR NOTE: This defensible. RFC security review v only identified f 20 now, and I'd p section that is t from each area of | 4441 ca when wor five are prefer n the unio f cooper | lled out king with as of coo ot to try n of the ation. | a lot of RADIUS, operation to have security | <pre>specifics (th EAP, etc.), b - we're at so a security co consideration</pre> | e need for but RFC 4441 mething like nsiderations s sections |
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| 3 4 5 | 9. Reference | s | |
| 5 6 7 | 9.1. Normati | ve References | |
| 8 9 10 | [RFC5226] | Narten, T. and H. Alvestrand, "Guidelines for IANA Considerations Section in RFCs", BCP 26, May 2008. | _ |
| 11 12 13 14 15 | [RFC5342] | Eastlake, D., "IANA Considerations and IETF Pr for IEEE 802 Parameters", BCP 141, RFC 5342, September 2008. | rotocol Usage |
| 16 17 18 19 20 21 | [RFC6756] | Trowbridge, S., Lear, E., Fishman, G., and S. "Internet Engineering Task Force and Internat: Telecommunication Union - Telecommunication Standardization Sector Collaboration Guideline RFC 6756, September 2012. | ional |
| 22 23 | 9.2. Informa | tive References | |
| 24 25 26 27 29 30 31 33 34 35 37 39 41 42 44 45 47 49 51 23 31 53 31 35 37 39 40 41 42 44 45 51 52 31 52 53 40 55 55 55 55 55 55 55 55 55 55 55 55 55 | [RFC4441] | Aboba, B., "The IEEE 802/IETF Relationship", H March 2006. | <pre>XFC 4441,</pre> |
| 54 55 56 | Dawkins & Tha | ler Expires May 19, 2013 | [Page 27] |

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| 3 4 5 6 7 8 9 10 11 12 | Appendix A. Changes | s since | e RFC4443 | L | | |
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Appendix B. Current examples of this relationship

B.1. MIB Review

Historically the MIB modules for IEEE 802.1 and IEEE 802.3 were developped in the IETF Bridge MIB and Hub MIB Working Groups respectively. With travel budgets under pressure, it has become increasingly difficult for companies to fund employees to attend both IEEE 802 and IETF meetings. As a result, an alternative was found to past arrangements that involved chartering MIB work items within an IETF WG by transferring the work to IEEE 802 with expert support for MIB review from the IETF. In order to encourage wider review of MIBs developed by IEEE 802 WGs, it is recommended that MIB modules developed in IEEE 802 follow the MIB guidelines [RFC4181]. An IEEE 802 group may request assignment of a 'MIB Doctor' to assist in a MIB review by contacting the IETF Operations and Management Area Director.

By standardizing IEEE 802 MIBs only within IEEE 802 while utilizing the SNMP quality control process, the IETF and IEEE 802 seek to ensure quality while decreasing overhead. The process of transfer of the MIB work from the IETF to IEEE 802 is documented in [RFC4663] and in [I-D ETHERNET-MIB-TRANSFER].

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| 3 4 5 | Appendix C. Histor | ry of the IEEE 8 | 302 / IETF relationsh | ip |
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