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## Abstract

The Internet Engineering Task Force (IETF) has responsibility for developing and reviewing specifications intended as Internet Standards. IETF activities are organized into working groups (WGs). This document describes the guidelines and procedures for formation and operation of IETF working groups. It also describes the formal relationship between IETF participants WG and the Internet Engineering Steering Group (IESG) and the basic duties of IETF participants, including WG Chairs, WG participants, and IETF Area Directors.

This document obsoletes RFC2418, and RFC3934. It also includes the changes from RFC7475, and with [\_2026bis], obsoletes it. It also includes a summary of the changes implied in RFC7776 and incorporates the changes from RFC8717 and RFC9141.

## About This Document

This note is to be removed before publishing as an RFC.

Status information for this document may be found at  
<https://datatracker.ietf.org/doc/draft-ietf-procon-2418bis/>.

Source for this draft and an issue tracker can be found at  
<https://github.com/ietf-wg-procon/2418bis>.

## Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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## 1. Introduction

The Internet, a loosely-organized international collaboration of autonomous, interconnected networks, supports host-to-host communication through voluntary adherence to open protocols and procedures defined by Internet Standards. There are also many isolated interconnected networks, which are not connected to the global Internet but use the Internet Standards. Internet Standards are developed in the Internet Engineering Task Force (IETF). This document defines guidelines and procedures for IETF working groups. The Internet Standards Process of the IETF is defined in [\_2026bis]. The organizations involved in the IETF Standards Process are described in [RFC9281] as are the roles of specific individuals.

The IETF is a large, open community of network designers, operators, vendors, users, and researchers concerned with the Internet and the technology used on it. The primary activities of the IETF are performed by committees known as working groups. There are currently more than 100 working groups. (See the Datatracker web page (<https://datatracker.ietf.org/wg/>) for an up-to-date list of IETF Working Groups.) Working groups tend to have a narrow focus and a lifetime bounded by the completion of a specific set of tasks, although there are exceptions.

For management purposes, the IETF working groups are collected together into areas, with each area having a separate focus. For example, the security area deals with the development of security-related technology. Each IETF area is managed by one or more Area

Directors (ADs). There are currently seven areas in the IETF but the number changes from time to time. (See the IETF web page (<https://www.ietf.org/technologies/areas/>) for a list of the current areas, the Area Directors for each area, and a list of which working groups are assigned to each area.)

In many areas, the Area Directors have formed an advisory group or directorate. These comprise experienced members of the IETF and the technical community represented by the area. The specific name and the details of the role for each group differ from area to area, but the primary intent is that these groups assist the Area Director(s), e.g., with the review of specifications produced in the area.

The IETF area directors are selected by a nominating committee, which also selects an overall chair for the IETF. The nominations process is described in [RFC8713].

The area directors sitting as a body, along with the IETF Chair, comprise the Internet Engineering Steering Group (IESG). The Internet Architecture Board (IAB) Chair and the IETF Executive Director are ex-officio members of the IESG. There are also liaisons from IANA, the RFC Production Center, the Secretariat, and the IAB. The IESG approves IETF Standards and approves the publication of other IETF documents. (See [\_2026bis].)

The IETF Secretariat provides staff and administrative support for the operation of the IETF.

There is no formal membership in the IETF. Participation is open to all. This participation may be by on-line contribution, attendance at face-to-face sessions, or both. Anyone from the Internet community who has the time and interest is urged to participate in IETF meetings and any of its on-line working group discussions. Participation is by individual technical contributors, rather than by formal representatives of organizations.

This document defines procedures and guidelines for the formation and operation of working groups in the IETF. It defines the relations of working groups to other bodies within the IETF. The duties of working group Chairs and Area Directors with respect to the operation of the working group are also defined.

### 1.1. IETF approach to standardization

Familiarity with The Internet Standards Process [\_2026bis] is essential for a complete understanding of the philosophy, procedures and guidelines described in this document.

## 1.2. Roles within a Working Group

The document, "Organizations Involved in the IETF Standards Process" [RFC9281] describes the roles of a number of individuals within a working group, including the working group chair and the document editor. These descriptions are expanded later in this document.

## 2. Conventions and Definitions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

## 3. Working group formation

IETF working groups (WGs) are the primary mechanism for development of IETF specifications and guidelines, many of which are intended to be standards or recommendations. A working group may be established at the initiative of an Area Director or it may be initiated by an individual or group of individuals. Anyone interested in creating an IETF working group MUST obtain the advice and consent of the IETF Area Director(s) in whose area the working group would fall and MUST proceed through the formal steps detailed in this section.

Working groups are typically created to address a specific problem or to produce one or more specific deliverables (a guideline, standards specification, etc.). Working groups are generally expected to be short-lived in nature. Upon completion of its goals and achievement of its objectives, the working group is terminated. A working group may also be terminated for other reasons (see Section 5). Alternatively, with the concurrence of the IESG, Area Director, the WG Chair, and the WG participants, the objectives or assignment of the working group may be extended by modifying the working group's charter through a rechartering process (see Section 6).

### 3.1. Criteria for formation

When determining whether it is appropriate to create a working group, the Area Director(s) and the IESG will consider several issues:

- \* Are the issues that the working group plans to address clear and relevant to the Internet community?
- \* Are the goals specific and reasonably achievable, and achievable within a reasonable time frame?

- \* What are the risks and urgency of the work, to determine the level of effort required?
- \* Do the working group's activities overlap with those of another working group? If so, it may still be appropriate to create the working group, but this question must be considered carefully by the Area Directors as subdividing efforts often dilutes the available technical expertise.
- \* Is there sufficient interest within the IETF in the working group's topic with enough people willing to expend the effort to produce the desired result (e.g., a protocol specification)? Working groups require considerable effort, including management of the working group process, editing of working group documents, and contributing to the document text. IETF experience suggests that these roles typically cannot all be handled by one person; a minimum of four or five active participants in the management positions are typically required in addition to a minimum of one or two dozen people that will attend the working group meetings and contribute on the mailing list. NOTE: The interest must be broad enough that a working group would not be seen as merely the activity of a single vendor.
- \* Is there enough expertise within the IETF in the working group's topic, and are those people interested in contributing in the working group?
- \* Does a base of interested consumers (end-users) appear to exist for the planned work? Consumer interest can be measured by participation of end-users within the IETF process, as well as by less direct means.
- \* Does the IETF have a reasonable role to play in the determination of the technology? There are many Internet-related technologies that may be interesting to IETF members but in some cases the IETF may not be in a position to effect the course of the technology in the "real world". This can happen, for example, if the technology is being developed by another standards body or an industry consortium.
- \* Are all known intellectual property rights relevant to the proposed working group's efforts understood?
- \* Is the proposed work plan an open IETF effort or is it an attempt to "bless" non-IETF technology where the effect of input from IETF participants may be limited?

- \* Is there a good understanding of any existing work that is relevant to the topics that the proposed working group is to pursue? This includes work within the IETF and elsewhere.
- \* Do the working group's goals overlap with known work in another standards body, and if so is adequate liaison in place?

Considering the above criteria, the Area Director(s), using his or her best judgement, will decide whether to pursue the formation of the group through the chartering process.

### 3.2. Charter

The formation of a working group requires a charter which is primarily negotiated between a prospective working group Chair and the relevant Area Director(s), although final approval is made by the IESG with advice from the IAB. A charter is a contract between a working group and the IETF to perform a set of tasks. A charter:

1. Lists relevant administrative information for the working group;
2. Specifies the direction or objectives of the working group and describes the approach that will be taken to achieve the goals; and
3. Optionally enumerates a set of milestones together with time frames for their completion.

When the prospective Chair(s), the Area Director and the IETF Secretariat are satisfied with the charter form and content, it becomes the basis for forming a working group. Note that an Area Director MAY require holding an exploratory Birds of a Feather (BOF) meeting, as described below, to gauge the level of support for a working group before submitting the charter to the IESG and IAB for approval.

Charters may be renegotiated periodically to reflect the current status, organization or goals of the working group (see Section 6). Hence, a charter is a contract between the IETF and the working group which is committing to a scope for the work and optionally also to meet explicit milestones and delivering specific "products".

Specifically, each charter consists of the following sections:

Working group name    A working group name should be reasonably

descriptive or identifiable. Additionally, the group shall define an acronym (maximum 8 printable ASCII characters) to reference the group in the IETF directories, mailing lists, and general documents.

**Chair(s)** The working group may have one or more Chairs to perform the administrative functions of the group. The email address(es) of the Chair(s) shall be included. Generally, a working group is limited to two chairs.

**Area and Area Director(s)** The name of the IETF area with which the working group is affiliated and the name and electronic mail address of the associated Area Director(s).

**Responsible Area Director** The Area Director who acts as the primary IESG contact for the working group.

**Mailing list** An IETF working group MUST have a general Internet mailing list. Most of the work of an IETF working group will be conducted on the mailing list. The working group charter MUST include:

1. The address to which a participant sends a subscription request and the procedures to follow when subscribing,
2. The address to which a participant sends submissions and special procedures, if any, and
3. The location of the mailing list archive. A message archive MUST be maintained in a public place which can be accessed via the web.

**Description of working group** The focus and intent of the group shall be set forth briefly. By reading this section alone, an individual should be able to decide whether this group is relevant to their own work. The first paragraph must give a brief summary of the problem area, basis, goal(s) and approach(es) planned for the working group. This paragraph can be used as an overview of the working group's effort.

To facilitate evaluation of the intended work and to provide on-going guidance to the working group, the charter must describe the problem being solved and should discuss objectives and expected impact with respect to:

- \* Architecture

- \* Operations



- \* Security
- \* Network management
- \* Scaling
- \* Transition (where applicable)

**Goals and milestones** The working group charter SHOULD establish a timetable for specific work items. While this may be renegotiated over time, the list of milestones and dates facilitates the Area Director's tracking of working group progress and status, and it can facilitate potential participants identifying the critical moments for input. Milestones shall consist of deliverables that can be qualified as showing specific achievement; e.g., "Internet-Draft finished" is fine, but "discuss via email" is not. It is helpful to specify milestones for every 3-6 months, so that progress can be gauged easily. This milestone list is expected to be updated periodically (see Section 6).

### 3.3. Charter review & approval

Proposed working groups often comprise technically competent participants who are not familiar with the history of Internet architecture or IETF processes. This can, unfortunately, lead to good working group consensus about a bad design. To facilitate working group efforts, an Area Director may assign a Consultant from among the ranks of senior IETF participants. (Consultants are described in Section 7.6.) At the discretion of the Area Director, approval of a new WG may be withheld in the absence of sufficient consultant resources.

Once the Area Director (and the Area Directorate, as the Area Director deems appropriate) has approved the working group charter, the charter is submitted for review by the IAB and approval by the IESG. After a review period of at least a week the proposed charter is posted to the IETF-announce mailing list as a public notice that the formation of the working group is being considered. At the same time the proposed charter is also posted to the "new-work" mailing list. This mailing list has been created to let qualified representatives from other standards organizations know about pending IETF working groups. After another review period lasting at least a week the IESG MAY approve the charter as-is, it MAY request that changes be made in the charter, or MAY decline to approve chartering of the working group

If the IESG approves the formation of the working group it remands the approved charter to the IETF Secretariat who records and enters the information into the IETF tracking database. The working group is announced to the IETF-announce a by the IETF Secretariat.

While chartering a new working group, the IESG will decide whether milestones are initially enabled or disabled for this working group, and if enabled whether there are dates included, and at what granularity. Examples of granularity include months, quarters, half-years, IETF meetings, and sooner-vs-later. The responsible Area Director is empowered to change these details without formal updates to the charter. The Area Director is encouraged to discuss these choices with the working group chairs, as the success of milestones is predicated on the chairs updating them in a timely manner. Updating the date attached to a milestone is under the authority of the working group chairs and does not require pre-approval of the Area Director. However, in the case of a disagreement the final decision lies with the Area Director.

#### 3.4. Birds of a Feather (BOF)

Often it is not clear whether an issue merits the formation of a working group. To facilitate exploration of the issues the IETF offers the possibility of a Birds of a Feather (BOF) session, as well as the early formation of an email list for preliminary discussion. In addition, a BOF may serve as a forum for a single presentation or discussion, without any intent to form a working group.

A BOF is a session at an IETF meeting which permits "market research" and technical "brainstorming". Any individual may request permission to hold a BOF on a subject. The request **MUST** be filed with a relevant Area Director who must approve a BOF before it can be scheduled. The person who requests the BOF may be asked to serve as Chair of the BOF.

The Chair of the BOF is also responsible for providing a report on the outcome of the BOF. If the Area Director approves, the BOF is then scheduled by submitting a request to [agenda@ietf.org](mailto:agenda@ietf.org) with copies to the Area Director(s). A BOF description and agenda are required before a BOF can be scheduled.

Available time for BOFs is limited, and BOFs are held at the discretion of the ADs for an area. The AD(s) may require additional assurances before authorizing a BOF. For example,

- \* The Area Director MAY require the establishment of an open email list prior to authorizing a BOF. This permits initial exchanges and sharing of framework, vocabulary and approaches, in order to make the time spent in the BOF more productive.
- \* The Area Director MAY require that a BOF be held, prior to establishing a working group (see Section 3.2).
- \* The Area Director MAY require that there be a draft of the WG charter prior to holding a BOF.
- \* The Area Director MAY require that a BOF not be held until an Internet-Draft describing the proposed technology has been published so it can be used as a basis for discussion in the BOF.

In general, a BOF on a particular topic is held only once (ONE slot at one IETF Plenary meeting). Under unusual circumstances Area Directors may, at their discretion, allow a BOF to meet for a second time. BOFs are not permitted to meet three times. Note that all other things being equal, WGs will be given priority for meeting space over BOFs. Also, occasionally BOFs may be held for other purposes than to discuss formation of a working group.

Usually the outcome of a BOF will be one of the following:

- \* There was enough interest and focus in the subject to warrant the formation of a WG;
- \* While there was a reasonable level of interest expressed in the BOF some other criteria for working group formation was not met (see Section 3.1).
- \* The discussion came to a fruitful conclusion, with results to be written down and published, however there is no need to establish a WG; or
- \* There was not enough interest in the subject to warrant the formation of a WG.

#### 4. Working Group Operation

The IETF has basic requirements for open and fair participation and for thorough consideration of technical alternatives. Within those constraints, working groups are autonomous and each determines most of the details of its own operation with respect to session participation, reaching closure, etc. The core rule for operation is that acceptance or agreement is achieved via working group "rough consensus". WG participants should specifically note the

requirements around intellectual property in [\_2026bis].

A number of procedural questions and issues will arise over time, and it is the function of the Working Group Chair(s) to manage the group process, keeping in mind that the overall purpose of the group is to make progress towards reaching rough consensus in realizing the working group's goals and objectives.

There are few hard and fast rules on organizing or conducting working group activities, but a set of guidelines and practices has evolved over time that have proven successful. These are listed here, with actual choices typically determined by the working group participants and the Chair(s).

#### 4.1. Session planning

For coordinated, structured WG interactions, the Chair(s) MUST publish a draft agenda well in advance of the actual session. The agenda should contain at least:

- \* The items for discussion;
- \* The estimated time necessary per item; and
- \* A clear indication of what documents the participants will need to read before the session in order to be well prepared.

Publication of the working group agenda shall include sending a copy of the agenda to the working group mailing list and to [agenda@ietf.org](mailto:agenda@ietf.org).

All working group actions shall be taken in a public forum, and wide participation is encouraged. A working group will conduct much of its business via electronic mail distribution lists but may meet periodically to discuss and review task status and progress, to resolve specific issues and to direct future activities. IETF Plenary meetings are the primary venue for these face-to-face working group sessions, and it is common (though not required) that active "interim" face-to-face meetings, telephone conferences, or video conferences may also be held. Interim meetings are subject to the same rules for advance notification, reporting, open participation, and process, which apply to other working group meetings.

All working group sessions (including those held outside of the IETF meetings) shall be reported by making minutes available. These minutes should include the agenda for the session, an account of the discussion including any decisions made, and a list of attendees. The Working Group Chair is responsible for insuring that session

minutes are written and distributed, though the actual task may be performed by someone designated by the Working Group Chair. The minutes shall be submitted in printable ASCII text for publication in the IETF Proceedings, and for posting in the IETF Directories and are to be sent to: minutes@ietf.org

#### 4.2. Session venue

Each working group will determine the balance of email and face-to-face sessions that is appropriate for achieving its goals. Electronic mail permits the widest participation; face-to-face meetings often permit better focus and therefore can be more efficient for reaching a consensus among a core of the working group participants. In determining the balance, the WG must ensure that its process does not serve to exclude contribution by email-only participants. Decisions reached during a face-to-face meeting about topics or issues which have not been discussed on the mailing list, or are significantly different from previously arrived mailing list consensus MUST be reviewed on the mailing list.

##### 4.2.1. IETF Meetings

If a WG needs a session at an IETF meeting, the Chair must apply for time-slots as soon as the first announcement of that IETF meeting is made by the IETF Secretariat to the WG-chairs list. Session time is a scarce resource at IETF meetings, so placing requests early will facilitate schedule coordination for WGs requiring the same set of experts.

The application for a WG session at an IETF meeting MUST be made to the IETF Secretariat at the address agenda@ietf.org. Some Area Directors may want to coordinate WG sessions in their area and request that time slots be coordinated through them. If this is the case it will be noted in the IETF meeting announcement. A WG scheduling request MUST contain:

- \* The working group name and full title;
- \* The amount of time requested;
- \* The rough outline of the WG agenda that is expected to be covered;
- \* The estimated number of people that will attend the WG session;
- \* Related WGs that should not be scheduled for the same time slot(s); and

- \* Optionally a request can be added for the WG session to be transmitted over the Internet in audio and video.

NOTE: While open discussion and contribution is essential to working group success, the Chair is responsible for ensuring forward progress. When acceptable to the WG, the Chair may call for restricted participation (but not restricted attendance!) at IETF working group sessions for the purpose of achieving progress. The Working Group Chair then has the authority to refuse to grant the floor to any individual who is unprepared or otherwise covering inappropriate material, or who, in the opinion of the Chair is disrupting the WG process. The Chair should consult with the Area Director(s) if the individual persists in disruptive behavior.

For working groups where milestones are enabled, chairs are expected to keep milestones up to date. Chairs are expected to review milestones at least once per IETF meeting (every four months) to ensure they are accurate.

#### 4.2.2. On-line

It can be quite useful to conduct email exchanges in the same manner as a face-to-face session, with published schedule and agenda, as well as on-going summarization and consensus polling.

Many working group participants hold that mailing list discussion is the best place to consider and resolve issues and make decisions. The choice of operational style is made by the working group itself. It is important to note, however, that Internet email discussion is possible for a much wider base of interested persons than is attendance at IETF meetings, due to the time and expense required to attend.

As in face-to-face sessions, occasionally one or more individuals may engage in behavior on a mailing list that, in the opinion of the WG chair, is disruptive to the WG process. Unless the disruptive behavior is severe enough that it must be stopped immediately, the WG chair should attempt to discourage the disruptive behavior by communicating directly with the offending individual. If the behavior persists, the WG chair should send at least one public warning on the WG mailing list. As a last resort and typically after one or more explicit warnings and consultation with the responsible Area Director, the WG chair may suspend the mailing list posting privileges of the disruptive individual for a period of not more than 30 days. Even while posting privileges are suspended, the individual must not be prevented from receiving messages posted to the list. Like all other WG chair decisions, any suspension of posting privileges is subject to appeal, as described in [\_2026bis].

This mechanism is intended to permit a WG chair to suspend posting privileges of a disruptive individual for a short period of time. This mechanism does not permit WG chairs to suspend an individual's posting privileges for a period longer than 30 days regardless of the type or severity of the disruptive incident. However, further disruptive behavior by the same individual will be considered separately and may result in further warnings or suspensions. Other methods of mailing list control, including longer suspensions, must be carried out in accordance with other IETF-approved procedures. See [RFC3683] for one set of procedures already defined and accepted by the community.

#### 4.3. Session management

Working groups make decisions through a "rough consensus" process. IETF consensus does not require that all participants agree although this is, of course, preferred. In general, the dominant view of the working group shall prevail. (However, it must be noted that "dominance" is not to be determined on the basis of volume or persistence, but rather a more general sense of agreement.) Consensus can be determined by a show of hands, humming, or any other means on which the WG agrees (by rough consensus, of course). Note that 51% of the working group does not qualify as "rough consensus" and 99% is better than rough. It is up to the Chair to determine if rough consensus has been reached.

It can be particularly challenging to gauge the level of consensus on a mailing list. There are two different cases where a working group may be trying to understand the level of consensus via a mailing list discussion. But in both cases the volume of messages on a topic is not, by itself, a good indicator of consensus since one or two individuals may be generating much of the traffic.

In the case where a consensus which has been reached during a face-to-face meeting is being verified on a mailing list the people who were in the meeting and expressed agreement must be taken into account. If there were 100 people in a meeting and only a few people on the mailing list disagree with the consensus of the meeting then the consensus should be seen as being verified. Note that enough time should be given to the verification process for the mailing list readers to understand and consider any objections that may be raised on the list. The normal two week last-call period should be sufficient for this.

The other case is where the discussion has been held entirely over the mailing list. The determination of the level of consensus may be harder to do in this case since most people subscribed to mailing lists do not actively participate in discussions on the list. It is

left to the discretion of the working group chair how to evaluate the level of consensus. The most common method used is for the working group chair to state what he or she believes to be the consensus view and, at the same time, requests comments from the list about the stated conclusion.

The challenge to managing working group sessions is to balance the need for open and fair consideration of the issues against the need to make forward progress. The working group, as a whole, has the final responsibility for striking this balance. The Chair has the responsibility for overseeing the process but may delegate direct process management to a formally-designated Facilitator.

It is occasionally appropriate to revisit a topic, to re-evaluate alternatives or to improve the group's understanding of a relevant decision. However, unnecessary repeated discussions on issues can be avoided if the Chair makes sure that the main arguments in the discussion (and the outcome) are summarized and archived after a discussion has come to conclusion. It is also good practice to note important decisions/consensus reached by email in the minutes of the next 'live' session, and to summarize briefly the decision-making history in the final documents the WG produces.

To facilitate making forward progress, a Working Group Chair may wish to decide to reject or defer the input from a member, based upon the following criteria:

Old The input pertains to a topic that already has been resolved and is redundant with information previously available;

Minor The input is new and pertains to a topic that has already been resolved, but it is felt to be of minor import to the existing decision;

Timing The input pertains to a topic that the working group has not yet opened for discussion; or

Scope The input is outside of the scope of the working group charter.

#### 4.4. Contention and appeals

Disputes are possible at various stages during the IETF process. As much as possible the process is designed so that compromises can be made, and genuine consensus achieved; however, there are times when even the most reasonable and knowledgeable people are unable to agree. To achieve the goals of openness and fairness, such conflicts must be resolved by a process of open review and discussion.



Formal procedures for requesting a review of WG, Chair, Area Director or IESG actions and conducting appeals are documented in The Internet Standards Process [\_2026bis].

## 5. Working Group Termination

Working groups are typically chartered to accomplish a specific task or tasks. After the tasks are complete, the group will be disbanded. However, if a WG produces a Proposed or Draft Standard, the WG will frequently become dormant rather than disband (i.e., the WG will no longer conduct formal activities, but the mailing list will remain available to review the work as it moves to Draft Standard and Standard status.)

If, at some point, it becomes evident that a working group is unable to complete the work outlined in the charter, or if the assumptions which that work was based have been modified in discussion or by experience, the Area Director, in consultation with the working group can either:

1. Recharter to refocus its tasks,
2. Choose new Chair(s), or
3. Disband.

If the working group disagrees with the Area Director's choice, it may appeal to the IESG (see Section 4.4).

## 6. Rechartering a Working Group

Updated milestones are renegotiated with the Area Director and the IESG, as needed, and then are submitted to the IESG Secretariat: [iesg-secretary@ietf.org](mailto:iesg-secretary@ietf.org). Similarly, the Area Director can enable or disable milestones, or enable or disable dates, or change the granularity of dates, all without a formal recharter.

Rechartering (other than changes to milestones) a working group follows the same procedures that the initial chartering does (see Section 3). The revised charter must be submitted to the IESG and IAB for approval. As with the initial chartering, the IESG may approve new charter as-is, it may request that changes be made in the new charter (including having the Working Group continue to use the old charter), or it may decline to approve the rechartered working group. In the latter case, the working group is disbanded.

## 7. Staff Roles

Working groups require considerable care and feeding. In addition to general participation, successful working groups benefit from the efforts of participants filling specific functional roles. The Area Director must agree to the specific people performing the WG Chair, and Working Group Consultant roles, and they serve at the discretion of the Area Director.

### 7.1. WG Chair

The Working Group Chair is concerned with making forward progress through a fair and open process, and has wide discretion in the conduct of WG business. The Chair must ensure that a number of tasks are performed, either directly or by others assigned to the tasks.

The Chair has the responsibility and the authority to make decisions, on behalf of the working group, regarding all matters of working group process and staffing, in conformance with the rules of the IETF. The AD has the authority and the responsibility to assist in making those decisions at the request of the Chair or when circumstances warrant such an intervention.

The Chair's responsibility encompasses at least the following:

- \* Ensure WG process and content management

The Chair has ultimate responsibility for ensuring that a working group achieves forward progress and meets its goals. The Chair is also responsible to ensure that the working group operates in an open and fair manner. For some working groups, this can be accomplished by having the Chair perform all management-related activities. In other working groups -- particularly those with large or divisive participation -- it is helpful to allocate process and/or secretarial functions to other participants. Process management pertains strictly to the style of working group interaction and not to its content. It ensures fairness and detects redundancy. The secretarial function encompasses document editing. It is quite common for a working group to assign the task of specification Editor to one or two participants. Sometimes, they also are part of the design team, described below.

- \* Moderate the WG email list

The Chair should attempt to ensure that the discussions on this list are relevant and that they converge to consensus agreements. The Chair should make sure that discussions on the list are summarized and that the outcome is well documented (to avoid repetition). They

may need to consult with the Ombudsteam (see Section 7.8) if they feel harassment is involved. The Chair also may choose to schedule organized on-line "sessions" with agenda and deliverables. These can be structured as true meetings, conducted over the course of several days (to allow participation across the Internet).

Organize, prepare and chair face-to-face and on-line formal sessions.

- \* Plan WG Sessions

The Chair must plan and announce all WG sessions well in advance (see Section 4.1).

- \* Communicate results of sessions

The Chair and/or Secretary must ensure that minutes of a session are taken and that an attendance list is circulated (see Section 4.1).

Immediately after a session, the WG Chair MUST provide the Area Director with a very short report (approximately one paragraph, via email) on the session.

- \* Distribute the workload

Of course, each WG will have participants who may not be able (or want) to do any work at all. Most of the time the bulk of the work is done by a few dedicated participants. It is the task of the Chair to motivate enough experts to allow for a fair distribution of the workload.

- \* Document development

Working groups produce documents and documents need authors. The Chair must make sure that authors of WG documents incorporate changes as agreed to by the WG (see Section 7.3).

- \* Document publication

The Chair and/or Document Editor will work with the RFC Editor to ensure document conformance with RFC publication requirements [RFC7322] and to coordinate any editorial changes suggested by the RFC Editor. A particular concern is that all participants are working from the same version of a document at the same time.

- \* Document implementations

Under the procedures described in [\_2026bis], the Chair is responsible for documenting the specific implementations which qualify the specification for Draft or Internet Standard status along with documentation about testing of the interoperation of these implementations.

## 7.2. WG Secretary

Taking minutes and editing working group documents often is performed by a specifically-designated participant or set of participants. In this role, the Secretary's job is to record WG decisions, rather than to perform basic specification.

## 7.3. Document Editor

Most IETF working groups focus their efforts on a document, or set of documents, that capture the results of the group's work. A working group generally designates a person or persons to serve as the Editor for a particular document. The Document Editor is responsible for ensuring that the contents of the document accurately reflect the decisions that have been made by the working group.

As a general practice, the Working Group Chair and Document Editor positions are filled by different individuals to help ensure that the resulting documents accurately reflect the consensus of the working group and that all processes are followed.

## 7.4. WG Facilitator

When meetings tend to become distracted or divisive, it often is helpful to assign the task of "process management" to one participant. Their job is to oversee the nature, rather than the content, of participant interactions. That is, they attend to the style of the discussion and to the schedule of the agenda, rather than making direct technical contributions themselves. They may need to consult with the Ombudsteam (see Section 7.8) if they feel harassment is involved.

## 7.5. Design teams

It is often useful, and perhaps inevitable, for a sub-group of a working group to develop a proposal to solve a particular problem. Such a sub-group is called a design team. In order for a design team to remain small and agile, it is acceptable to have closed membership and private meetings. Design teams may range from an informal chat between people in a hallway to a formal set of expert volunteers that the WG chair or AD appoints to attack a controversial problem. The output of a design team is always subject to approval, rejection or

modification by the WG as a whole.

#### 7.6. Working Group Consultant

At the discretion of the Area Director, a Consultant may be assigned to a working group. Consultants have specific technical background appropriate to the WG and experience in Internet architecture and IETF process.

#### 7.7. Area Director

Area Directors are responsible for ensuring that working groups in their area produce coherent, coordinated, architecturally consistent and timely output as a contribution to the overall results of the IETF.

#### 7.8. Ombudsteam

As noted in [RFC7776]:

IETF Participants must not engage in harassment while at IETF meetings, virtual meetings, or social events or while participating in mailing lists. This document lays out procedures for managing and enforcing this policy.

The Ombudsteam is a resource for the entire IETF intended to address issues of harassment, and all WG participants should feel free to engage with the team if they feel there is an issue.

### 8. Working Group Documents

#### 8.1. Session documents

All relevant documents to be discussed at a session should be published and available as Internet-Drafts at least two weeks before a session starts. Any document which does not meet this publication deadline can only be discussed in a working group session with the specific approval of the working group chair(s). Since it is important that working group members have adequate time to review all documents, granting such an exception should only be done under unusual conditions. The final session agenda should be posted to the working group mailing list at least two weeks before the session and sent at that time to [agenda@ietf.org](mailto:agenda@ietf.org) for publication on the IETF web site.

## 8.2. Internet-Drafts (I-D)

The Internet-Drafts directory is provided to working groups as a resource for posting and disseminating in-process copies of working group documents. This repository is replicated at various locations around the Internet. It is encouraged that draft documents be posted as soon as they become reasonably stable.

It is stressed here that Internet-Drafts are working documents and have no official standards status whatsoever. They may, eventually, turn into a standards-track document or they may sink from sight. Internet-Drafts are submitted to: [internet-drafts@ietf.org](mailto:internet-drafts@ietf.org)

The format of an Internet-Draft is mostly the same as for an RFC [RFC7322], Section 4; details can also be found at <https://authors.ietf.org> (<https://authors.ietf.org>). In addition, an I-D must contain:

- \* The I-D filename; and
- \* The expiration date for the I-D.
- \* Standard boilerplate which can be found in Section 6 of the Trust Legal Provisions (<https://trustee.ietf.org/documentation/trust-legal-provisions>)

The tooling available to authors automates most the above.

## 8.3. Request For Comments (RFC)

The work of an IETF working group often results in publication of one or more documents, as part of the Request For Comments (RFCs) [\_2026bis] series. This series is the archival publication record for the Internet community. A document can be written by an individual in a working group, by a group as a whole with a designated Editor, or by others not involved with the IETF.

NOTE: The RFC series is a publication mechanism only and publication does not determine the IETF status of a document. Status is determined through separate, explicit status labels assigned by the IESG on behalf of the IETF. In other words, the reader is reminded that all Internet Standards are published as RFCs, but NOT all RFCs specify standards [RFC1796].

#### 8.4. Working Group Last-Call

When a WG decides that a document is ready for publication it may be submitted to the IESG for consideration. In most cases the determination that a WG feels that a document is ready for publication is done by the WG Chair issuing a working group Last-Call. The decision to issue a working group Last-Call is at the discretion of the WG Chair working with the Area Director. A working group Last-Call serves the same purpose within a working group that an IESG Last-Call does in the broader IETF community (see [\_2026bis]).

#### 8.5. Submission of documents

Once that a WG has determined at least rough consensus exists within the WG for the advancement of a document the following must be done:

- \* The version of the relevant document exactly as agreed to by the WG MUST be in the Internet-Drafts directory.
- \* The relevant document MUST be formatted according to Section 8.3.
- \* The WG Chair MUST send email to the relevant Area Director. A copy of the request MUST be also sent to the IESG Secretariat. The mail MUST contain the reference to the document's ID filename, and the action requested. The copy of the message to the IESG Secretariat is to ensure that the request gets recorded by the Secretariat so that they can monitor the progress of the document through the process.

Unless returned by the IESG to the WG for further development, progressing of the document is then the responsibility of the IESG. After IESG approval, responsibility for final disposition is the joint responsibility of the RFC Editor, the WG Chair and the Document Editor.

#### 9. Review of documents

The IESG reviews all documents submitted for publication as RFCs. Usually minimal IESG review is necessary in the case of a submission from a WG intended as an Informational or Experimental RFC. More extensive review is undertaken in the case of standards-track documents.

Prior to the IESG beginning their deliberations on standards-track documents, IETF Secretariat will issue a "Last-Call" to the IETF mailing list (see [\_2026bis]). This Last Call will announce the intention of the IESG to consider the document, and it will solicit

final comments from the IETF within a period of two weeks. It is important to note that a Last-Call is intended as a brief, final check with the Internet community, to make sure that no important concerns have been missed or misunderstood. The Last-Call should not serve as a more general, in-depth review.

The IESG review takes into account responses to the Last-Call and will lead to one of these possible conclusions:

1. The document is accepted as is for the status requested. This fact will be announced by the IETF Secretariat to the IETF mailing list and to the RFC Editor.
2. The document is accepted as-is but not for the status requested. This fact will be announced by the IETF Secretariat to the IETF mailing list and to the RFC Editor (see [\_2026bis] for more details).
3. Changes regarding content are suggested to the author(s)/WG. Suggestions from the IESG must be clear and direct, so as to facilitate working group and author correction of the specification. If the author(s)/WG can explain to the satisfaction of the IESG why the changes are not necessary, the document will be accepted for publication as under point 1, above. If the changes are made the revised document may be resubmitted for IESG review.
4. Changes are suggested by the IESG and a change in status is recommended. The process described above for 3 and 2 are followed in that order.
5. The document is rejected. Any document rejection will be accompanied by specific and thorough arguments from the IESG. Although the IETF and working group process is structured such that this alternative is not likely to arise for documents coming from a working group, the IESG has the right and responsibility to reject documents that the IESG feels are fatally flawed in some way.

If any individual or group of individuals feels that the review treatment has been unfair, there is the opportunity to make a procedural complaint. The mechanism for this type of complaints is described in [\_2026bis].



## 10. Security Considerations

Documents describing IETF processes, such as this one, do not have an impact on the security of the network infrastructure or of Internet applications.

It should be noted that all IETF working groups are required to examine and understand the security implications of any technology they develop. This analysis must be included in any resulting RFCs in a Security Considerations section. Note that merely noting a significant security hole is no longer sufficient. IETF developed technologies should not add insecurity to the environment in which they are run.

## 11. IANA Considerations

This document has no IANA actions.

## 12. Change Log

### 12.1. Working group draft

- \* Draft 0: Adopted by PROCON WG
- \* Draft 1: Removed sample charter. Fix "conflict of interest" text. Make milestones optional. Clarify IAB liaison to IESG.

### 12.2. Individual draft

- \* Draft 0: Translated the nroff source of RFC 2418 into markdown. Changed the intellectual proper notices the current ones.
- \* Draft 1: Incorporated RFC 3934. Fixed a few minor typo's and cut/paste errors. Fixed updates/obsoletes headers and comments.
- \* Draft 2: Incorporate RFC 7475. Fix internal references.
- \* Draft 3: Incorporate RFC 8717.
- \* Draft 4: Incorporate RFC 9141.
- \* Draft 5: Incorporate RFC 7776. Text reviewed by Adrian Farrel, one of the RFC authors, since it is not really directly including text from the RFC.
- \* Draft 6: Addressed the editorial issues found by the following errata: 6787. Errata 3752. 6130, 7408 were previously fixed.

- \* Draft 7: Incorporated RFC 8717 (and the bis draft for that) about the name of the IETF Executive Director.

## 13. References

### 13.1. Normative References

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