

## Intellectual Property Rights in IETF Technology

### Status of this Memo

This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements. Distribution of this memo is unlimited.

### Copyright Notice

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### Abstract

The IETF policies about Intellectual Property Rights (IPR), such as patent rights, relative to technologies developed in the IETF are designed to ensure that IETF working groups and participants have as much information about any IPR constraints on a technical proposal as possible. The policies are also intended to benefit the Internet community and the public at large, while respecting the legitimate rights of IPR holders. This memo details the IETF policies concerning IPR related to technology worked on within the IETF. It also describes the objectives that the policies are designed to meet. This memo updates RFC 2026 and, with RFC 3667, replaces Section 10 of RFC 2026. This memo also updates paragraph 4 of Section 3.2 of RFC 2028, for all purposes, including reference [2] in RFC 2418.

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## 1. Definitions

The following definitions are for terms used in the context of this document. Other terms, including "IESG," "ISOC," "IAB," and "RFC Editor," are defined in [RFC 2028].

- a. "IETF": In the context of this document, the IETF includes all individuals who participate in meetings, working groups, mailing lists, functions and other activities which are organized or initiated by ISOC, the IESG or the IAB under the general designation of the Internet Engineering Task Force or IETF, but solely to the extent of such participation.
- b. "IETF Standards Process": the activities undertaken by the IETF in any of the settings described in 1(c) below.
- c. "IETF Contribution": any submission to the IETF intended by the Contributor for publication as all or part of an Internet-Draft or RFC (except for RFC Editor Contributions described below) and any statement made within the context of an IETF activity. Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:
  - o the IETF plenary session,
  - o any IETF working group or portion thereof,
  - o the IESG, or any member thereof on behalf of the IESG,
  - o the IAB or any member thereof on behalf of the IAB,

- o any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices,
- o the RFC Editor or the Internet-Drafts function (except for RFC Editor Contributions described below).

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this document.

- d. "Internet-Draft": temporary documents used in the IETF and RFC Editor processes. Internet-Drafts are posted on the IETF web site by the IETF Secretariat and have a nominal maximum lifetime in the Secretariat's public directory of 6 months, after which they are removed. Note that Internet-Drafts are archived many places on the Internet, and not all of these places remove expired Internet-Drafts. Internet-Drafts that are under active consideration by the IESG are not removed from the Secretariat's public directory until that consideration is complete. In addition, the author of an Internet-Draft can request that the lifetime in the Secretariat's public directory be extended before the expiration.
- e. "RFC": the basic publication series for the IETF. RFCs are published by the RFC Editor and once published are never modified. (See [RFC 2026] Section 2.1)
- f. "RFC Editor Contribution": An Internet-Draft intended by the Contributor to be submitted to the RFC Editor for publication as an Informational or Experimental RFC but not intended to be part of the IETF Standards Process.
- g. "IETF Internet-Drafts": Internet-Drafts other than RFC Editor Contributions. Note that under Section 3.3(a) the grant of rights in regards to IETF Internet-Drafts as specified in this document is perpetual and irrevocable and thus survives the Secretariat's removal of an Internet-Draft from the public directory, except as limited by Section 3.3(a)(C). (See [RFC 2026] Sections 2.2 and 8)
- h. "IETF Documents": RFCs and Internet-Drafts except for Internet-Drafts that are RFC Editor Contributions and the RFCs that are published from them.
- i. "RFC Editor Documents": RFCs and Internet-Drafts that are RFC Editor Contributions and the RFCs that may be published from them.
- j. "Contribution": IETF Contributions or RFC Editor Contributions

- k. "Contributor": an individual submitting a Contribution
- l. "Reasonably and personally known": means something an individual knows personally or, because of the job the individual holds, would reasonably be expected to know. This wording is used to indicate that an organization cannot purposely keep an individual in the dark about patents or patent applications just to avoid the disclosure requirement. But this requirement should not be interpreted as requiring the IETF Contributor or participant (or his or her represented organization, if any) to perform a patent search to find applicable IPR.
- m. "Implementing Technology": means a technology that implements an IETF specification or standard.
- n. "Covers" or "Covered" mean that a valid claim of a patent or a patent application in any jurisdiction or a protected claim, or any other Intellectual Property Right, would necessarily be infringed by the exercise of a right (e.g., making, using, selling, importing, distribution, copying, etc.) with respect to an Implementing Technology. For purposes of this definition, "valid claim" means a claim of any unexpired patent or patent application which shall not have been withdrawn, cancelled or disclaimed, nor held invalid by a court of competent jurisdiction in an unappealed or unappealable decision.
- o. "IPR" or "Intellectual Property Rights": means patent, copyright, utility model, invention registration, database and data rights that may Cover an Implementing Technology, whether such rights arise from a registration or renewal thereof, or an application therefore, in each case anywhere in the world.

## 2. Introduction

In the years since RFC 2026 was published there have been a number of times when the exact intent of Section 10, the section which deals with IPR disclosures has been the subject of vigorous debate within the IETF community. This is because it is becoming increasingly common for IETF working groups to have to deal with claims of Intellectual Property Rights (IPR), such as patent rights, with regards to technology under discussion in working groups. The aim of this document is to clarify various ambiguities in Section 10 of [RFC 2026] that led to these debates and to amplify the policy in order to clarify what the IETF is, or should be, doing.

IPR disclosures can come at any point in the IETF Standards Process, e.g., before the first Internet-Draft has been submitted, prior to RFC publication, or after an RFC has been published and the working

group has been closed down; they can come from people submitting technical proposals as Internet-Drafts, on mailing lists or at meetings, from other people participating in the working group or from third parties who find out that the work is going or has gone on; and they can be based on granted patents or on patent applications, and in some cases be disingenuous, i.e., made to affect the IETF Standards Process rather than to inform.

RFC 2026, Section 10 established three basic principles regarding the IETF dealing with claims of Intellectual Property Rights:

- (a) the IETF will make no determination about the validity of any particular IPR claim
- (b) the IETF following normal processes can decide to use technology for which IPR disclosures have been made if it decides that such a use is warranted
- (c) in order for the working group and the rest of the IETF to have the information needed to make an informed decision about the use of a particular technology, all those contributing to the working group's discussions must disclose the existence of any IPR the Contributor or other IETF participant believes Covers or may ultimately Cover the technology under discussion. This applies to both Contributors and other participants, and applies whether they contribute in person, via email or by other means. The requirement applies to all IPR of the participant, the participant's employer, sponsor, or others represented by the participants, that is reasonably and personally known to the participant. No patent search is required.

Section 1 defines the terms used in this document. Sections 3, 4 and 5 of this document address the intellectual property issues previously addressed by Section 10 of RFC 2026. Sections 6 thru 12 then explain the rationale for these provisions, including some of the clarifications that have been made since the adoption of RFC 2026. The rules and procedures set out in this document are not intended to modify or alter the IETF's current policy toward IPR in the context of the IETF Standards Process. They are intended to clarify and fill in procedural gaps.

A companion document [RFC 3667] deals with rights (such as copyrights and trademarks) in Contributions, including the right of IETF and its participants to publish and create derivative works of those Contributions. This document is not intended to address those issues.

This document is not intended as legal advice. Readers are advised to consult their own legal advisors if they would like a legal interpretation of their rights or the rights of the IETF in any Contributions they make.

### 3. Contributions to the IETF

#### 3.1. General Policy

In all matters of Intellectual Property Rights, the intent is to benefit the Internet community and the public at large, while respecting the legitimate rights of others.

#### 3.2. Rights and Permissions

##### 3.2.1. All Contributions

By submission of a Contribution, each person actually submitting the Contribution, and each named co-Contributor, is deemed to agree to the following terms and conditions, on his or her own behalf, and on behalf of the organizations the Contributor represents or is sponsored by (if any) when submitting the Contribution.

- A. The Contributor represents that he or she has made or will promptly make all disclosures required by Section 6.1.1 of this document.
- B. The Contributor represents that there are no limits to the Contributor's ability to make the grants, acknowledgments and agreements herein that are reasonably and personally known to the Contributor.
- C. If the Contribution is an Internet-Draft, this agreement must be acknowledged, by including in the "Status of this Memo" section on the first page of the Contribution, the appropriate notices described in Section 5 of [RFC 3667].

### 4. Actions for Documents for which IPR Disclosure(s) Have Been Received

- (A) When any Intellectual Property Right is disclosed before publication as an RFC, with respect to any technology or specification, described in a Contribution in the manner set forth in Section 6 of this document, the RFC Editor shall ensure that the document include a note indicating the existence of such claimed Intellectual Property Rights in any RFC published from the Contribution. (See Section 5 below.)

- (B) The IESG disclaims any responsibility for identifying the existence of or for evaluating the applicability of any IPR, disclosed or otherwise, to any IETF technology, specification or standard, and will take no position on the validity or scope of any such IPR claims.
- (C) Where Intellectual Property Rights have been disclosed for IETF Documents as provided in Section 6 of this document, the IETF Executive Director shall request from the discloser of such IPR, a written assurance that upon approval by the IESG for publication as RFCs of the relevant IETF specification(s), all persons will be able to obtain the right to implement, use, distribute and exercise other rights with respect to Implementing Technology under one of the licensing options specified in Section 6.5 below unless such a statement has already been submitted. The working group proposing the use of the technology with respect to which the Intellectual Property Rights are disclosed may assist the IETF Executive Director in this effort.

The results of this procedure shall not, in themselves, block publication of an IETF Document or advancement of an IETF Document along the standards track. A working group may take into consideration the results of this procedure in evaluating the technology, and the IESG may defer approval when a delay may facilitate obtaining such assurances. The results will, however, be recorded by the IETF Executive Director, and be made available online.

#### 4.1. No Determination of Reasonable and Non-discriminatory Terms

The IESG will not make any explicit determination that the assurance of reasonable and non-discriminatory terms or any other terms for the use of an Implementing Technology has been fulfilled in practice. It will instead apply the normal requirements for the advancement of Internet Standards. If the two unrelated implementations of the specification that are required to advance from Proposed Standard to Draft Standard have been produced by different organizations or individuals, or if the "significant implementation and successful operational experience" required to advance from Draft Standard to Standard has been achieved, the IESG will presume that the terms are reasonable and to some degree non-discriminatory. (See RFC 2026, Section 4.1.3.) Note that this also applies to the case where multiple implementers have concluded that no licensing is required. This presumption may be challenged at any time, including during the Last-Call period by sending email to the IESG.

## 5. Notice to be included in RFCs

The RFC Editor will ensure that the following notice is present in all IETF RFCs and all other RFCs for which an IPR disclosure or assertion has been received prior to publication.

Disclaimer of validity:

"The IETF takes no position regarding the validity or scope of any Intellectual Property Rights or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; nor does it represent that it has made any independent effort to identify any such rights. Information on the procedures with respect to rights in RFC documents can be found in BCP 78 and BCP 79.

Copies of IPR disclosures made to the IETF Secretariat and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this specification can be obtained from the IETF on-line IPR repository at <http://www.ietf.org/ipr>.

The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights that may cover technology that may be required to implement this standard. Please address the information to the IETF at [ietf-ipr@ietf.org](mailto:ietf-ipr@ietf.org)."

## 6. IPR Disclosures

This section discusses aspects of obligations associated with IPR disclosure.

This document refers to the IETF participant making disclosures, consistent with the general IETF philosophy that participants in the IETF act as individuals. A participant's obligation to make a disclosure is also considered satisfied if the IPR owner or the participant's employer or sponsor makes an appropriate disclosure in place of the participant doing so.



## 6.1. Who must make an IPR disclosure?

### 6.1.1. A Contributor's IPR in his or her Contribution

Any Contributor who reasonably and personally knows of IPR meeting the conditions of Section 6.6 which the Contributor believes Covers or may ultimately Cover his or her Contribution, or which the Contributor reasonably and personally knows his or her employer or sponsor may assert against Implementing Technologies based on such Contribution, must make a disclosure in accordance with this Section 6.

This requirement specifically includes Contributions that are made by any means including electronic or spoken comments, unless the latter are rejected from consideration before a disclosure could reasonably be submitted. An IPR discloser is requested to withdraw a previous disclosure if a revised Contribution negates the previous IPR disclosure, or to amend a previous disclosure if a revised Contribution substantially alters the previous disclosure.

Contributors must disclose IPR meeting the description in this section; there are no exceptions to this rule.

### 6.1.2. An IETF participant's IPR in Contributions by others

Any individual participating in an IETF discussion who reasonably and personally knows of IPR meeting the conditions of Section 6.6 which the individual believes Covers or may ultimately Cover a Contribution made by another person, or which such IETF participant reasonably and personally knows his or her employer or sponsor may assert against Implementing Technologies based on such Contribution, must make a disclosure in accordance with this Section 6.

### 6.1.3. IPR of others

If a person has information about IPR that may Cover IETF Contributions, but the participant is not required to disclose because they do not meet the criteria in Section 6.6 (e.g., the IPR is owned by some other company), such person is encouraged to notify the IETF by sending an email message to [ietf-ipr@ietf.org](mailto:ietf-ipr@ietf.org). Such a notice should be sent as soon as reasonably possible after the person realizes the connection.

## 6.2. The timing of providing disclosure

Timely IPR disclosure is important because working groups need to have as much information as they can while they are evaluating alternative solutions.

#### 6.2.1. Timing of disclosure under Section 6.1.1

The IPR disclosure required pursuant to section 6.1.1 must be made as soon as reasonably possible after the Contribution is published in an Internet Draft unless the required disclosure is already on file. For example, if the Contribution is an update to a Contribution for which an IPR disclosure has already been made and the applicability of the disclosure is not changed by the new Contribution, then no new disclosure is required. But if the Contribution is a new one, or is one that changes an existing Contribution such that the revised Contribution is no longer Covered by the disclosed IPR or would be Covered by new or different IPR, then a disclosure must be made.

If a Contributor first learns of IPR in its Contribution that meets the conditions of Section 6.6, for example a new patent application or the discovery of a relevant patent in a patent portfolio, after the Contribution is published in an Internet-Draft, a disclosure must be made as soon as reasonably possible after the IPR becomes reasonably and personally known to the Contributor.

Participants who realize that a Contribution will be or has been incorporated into a submission to be published in an Internet Draft, or is seriously being discussed in a working group, are strongly encouraged to make at least a preliminary disclosure. That disclosure should be made as soon after coming to the realization as reasonably possible, not waiting until the document is actually posted or ready for posting.

#### 6.2.2. Timing of disclosure under Section 6.1.2

The IPR disclosure required pursuant to section 6.1.2 must be made as soon as reasonably possible after the Contribution is published in an Internet Draft or RFC, unless the required disclosure is already on file. Participants who realize that the IPR will be or has been incorporated into a submission to be published in an Internet Draft, or is seriously being discussed in a working group, are strongly encouraged to make at least a preliminary disclosure. That disclosure should be made as soon after coming to the realization as reasonably possible, not waiting until the document is actually posted or ready for posting.

If a participant first learns of IPR that meets the conditions of Section 6.6 in a Contribution by another party, for example a new patent application or the discovery of a relevant patent in a patent portfolio, after the Contribution was published in an Internet-Draft or RFC, a disclosure must be made as soon as reasonably possible after the IPR becomes reasonably and personally known to the participant.

### 6.3. How must a disclosure be made?

IPR disclosures are made by following the instructions at <http://www.ietf.org/ipr-instructions>.

### 6.4. What must be in a disclosure?

6.4.1. The disclosure must list the numbers of any issued patents or published patent applications or indicate that the claim is based on unpublished patent applications. The disclosure must also list the specific IETF or RFC Editor Document(s) or activity affected. If the IETF Document is an Internet-Draft, it must be referenced by specific version number. In addition, if the IETF Document includes multiple parts and it is not reasonably apparent which part of such IETF Document is alleged to be Covered by the IPR in question, it is helpful if the discloser identifies the sections of the IETF Document that are alleged to be so Covered.

6.4.2. If a disclosure was made on the basis of a patent application (either published or unpublished), then, if requested to do so by the IESG or by a working group chair, the IETF Executive Director can request a new disclosure indicating whether any of the following has occurred: the publication of a previously unpublished patent application, the abandonment of the application and/or the issuance of a patent thereon. If the patent has issued, then the new disclosure must include the patent number and, if the claims of the granted patent differ from those of the application in manner material to the relevant Contribution, it is helpful if such a disclosure describes any differences in applicability to the Contribution. If the patent application was abandoned, then the new disclosure must explicitly withdraw any earlier disclosures based on the application.

New or revised disclosures may be made voluntarily at any time.

6.4.3. The requirement for an IPR disclosure is not satisfied by the submission of a blanket statement of possible IPR on every Contribution. This is the case because the aim of the disclosure requirement is to provide information about specific IPR against specific technology under discussion in the IETF. The requirement is also not satisfied by a blanket statement of willingness to license all potential IPR under fair and non-discriminatory terms for the same reason. However, the requirement for an IPR disclosure is satisfied by a blanket statement of the IPR discloser's willingness to license all of its potential IPR meeting the requirements of Section 6.6 (and either Section 6.1.1 or 6.1.2) to implementers of an IETF specification on a royalty-free basis as long as any other terms and conditions are disclosed in the IPR disclosure statement.

#### 6.5. What licensing information to detail in a disclosure.

Since IPR disclosures will be used by IETF working groups during their evaluation of alternative technical solutions, it is helpful if an IPR disclosure includes information about licensing of the IPR in case Implementing Technologies require a license. Specifically, it is helpful to indicate whether, upon approval by the IESG for publication as RFCs of the relevant IETF specification(s), all persons will be able to obtain the right to implement, use, distribute and exercise other rights with respect to an Implementing Technology a) under a royalty-free and otherwise reasonable and non-discriminatory license, or b) under a license that contains reasonable and non-discriminatory terms and conditions, including a reasonable royalty or other payment, or c) without the need to obtain a license from the IPR holder.

The inclusion of licensing information in IPR disclosures is not mandatory but it is encouraged so that the working groups will have as much information as they can during their deliberations. If the inclusion of licensing information in an IPR disclosure would significantly delay its submission it is quite reasonable to submit a disclosure without licensing information and then submit a new disclosure when the licensing information becomes available.

#### 6.6. When is a disclosure required?

IPR disclosures under Sections 6.1.1. and 6.1.2 are required with respect to IPR that is owned directly or indirectly, by the individual or his/her employer or sponsor (if any) or that such persons otherwise have the right to license or assert.

#### 7. Failure to disclose

There are cases where individuals are not permitted by their employers or by other factors to disclose the existence or substance of patent applications or other IPR. Since disclosure is required for anyone submitting documents or participating in IETF discussions, a person who does not disclose IPR for this reason, or any other reason, must not contribute to or participate in IETF activities with respect to technologies that he or she reasonably and personally knows to be Covered by IPR which he or she will not disclose. Contributing to or participating in IETF discussions about a technology without making required IPR disclosures is a violation of IETF process.

## 8. Evaluating alternative technologies in IETF working groups

In general, IETF working groups prefer technologies with no known IPR claims or, for technologies with claims against them, an offer of royalty-free licensing. But IETF working groups have the discretion to adopt technology with a commitment of fair and non-discriminatory terms, or even with no licensing commitment, if they feel that this technology is superior enough to alternatives with fewer IPR claims or free licensing to outweigh the potential cost of the licenses.

Over the last few years the IETF has adopted stricter requirements for some security technologies. It has become common to have a mandatory-to-implement security technology in IETF technology specifications. This is to ensure that there will be at least one common security technology present in all implementations of such a specification that can be used in all cases. This does not limit the specification from including other security technologies, the use of which could be negotiated between implementations. An IETF consensus has developed that no mandatory-to-implement security technology can be specified in an IETF specification unless it has no known IPR claims against it or a royalty-free license is available to implementers of the specification unless there is a very good reason to do so. This limitation does not extend to other security technologies in the same specification if they are not listed as mandatory-to-implement.

It should also be noted that the absence of IPR disclosures is not the same thing as the knowledge that there will be no IPR claims in the future. People or organizations not currently involved in the IETF or people or organizations that discover IPR they feel to be relevant in their patent portfolios can make IPR disclosures at any time.

It should also be noted that the validity and enforceability of any IPR may be challenged for legitimate reasons, and the mere existence of an IPR disclosure should not automatically be taken to mean that the disclosed IPR is valid or enforceable. Although the IETF can make no actual determination of validity, enforceability or applicability of any particular IPR claim, it is reasonable that a working group will take into account on their own opinions of the validity, enforceability or applicability of Intellectual Property Rights in their evaluation of alternative technologies.

## 9. Change control for technologies

The IETF must have change control over the technology described in any standards track IETF Documents in order to fix problems that may be discovered or to produce other derivative works.

In some cases the developer of patented or otherwise controlled technology may decide to hand over to the IETF the right to evolve the technology (a.k.a., "change control"). The implementation of an agreement between the IETF and the developer of the technology can be complex. (See [RFC 1790] and [RFC 2339] for examples.)

Note that there is no inherent prohibition against a standards track IETF Document making a normative reference to proprietary technology. For example, a number of IETF Standards support proprietary cryptographic transforms.

## 10. Licensing requirements to advance standards track IETF Documents

RFC 2026 Section 4.1.2 states: "If patented or otherwise controlled technology is required for implementation, the separate implementations must also have resulted from separate exercise of the licensing process." A key word in this text is "required." The mere existence of disclosed IPR does not necessarily mean that licenses are actually required in order to implement the technology. Section 4.1 of this document should be taken to apply to the case where there are multiple implementations and none of the implementers have felt that they needed to license the technology and they have no plausible indications that any IPR holder(s) will try to enforce their IPR.

## 11. No IPR disclosures in IETF Documents

IETF and RFC Editor Documents must not contain any mention of specific IPR. All specific IPR disclosures must be submitted as described in Section 6. Specific IPR disclosures must not be in the affected IETF and RFC Editor Documents because the reader could be misled. The inclusion of a particular IPR disclosure in a document could be interpreted to mean that the IETF, IESG or RFC Editor has formed an opinion on the validity, enforceability or applicability of the IPR. The reader could also be misled to think that the included IPR disclosures are the only IPR disclosures the IETF has received concerning the IETF document. Readers should always refer to the on-line web page to get a full list of IPR disclosures received by the IETF concerning any Contribution. (<http://www.ietf.org/ipr/>)

## 12. Security Considerations

This memo relates to IETF process, not any particular technology. There are security considerations when adopting any technology, whether IPR-protected or not. A working group should take those security considerations into account as one part of evaluating the technology, just as IPR is one part, but there are no known issues of security with IPR procedures.

## 13. References

### 13.1. Normative References

- [RFC 2026] Bradner, S., Ed., "The Internet Standards Process -- Revision 3", BCP 9, RFC 2026, October 1996.
- [RFC 2028] Hovey, R. and S. Bradner, "The Organizations Involved in the IETF Standards Process", BCP 11, RFC 2028, October 1996.
- [RFC 2418] Bradner, S., Ed., "Working Group Guidelines and Procedures", BCP 25, RFC 2418, September 1998.
- [RFC 3667] Bradner, S., "IETF Rights in Contributions", BCP 78, RFC 3667, February 2004.

### 13.2. Informative References

- [RFC 1790] Cerf, V., "An Agreement between the Internet Society and Sun Microsystems, Inc. in the Matter of ONC RPC and XDR Protocols", RFC 1790, April 1995.
- [RFC 2339] IETF & Sun Microsystems, "An Agreement Between the Internet Society, the IETF, and Sun Microsystems, Inc. in the matter of NFS V.4 Protocols", RFC 2339, May 1998.

## 14. Acknowledgements

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## 16. Full Copyright Statement

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## Intellectual Property

The IETF takes no position regarding the validity or scope of any Intellectual Property Rights or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; nor does it represent that it has made any independent effort to identify any such rights. Information on the procedures with respect to rights in RFC documents can be found in BCP 78 and BCP 79.

Copies of IPR disclosures made to the IETF Secretariat and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this specification can be obtained from the IETF on-line IPR repository at <http://www.ietf.org/ipr>.

The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights that may cover technology that may be required to implement this standard. Please address the information to the IETF at [ietf-ipr@ietf.org](mailto:ietf-ipr@ietf.org).

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