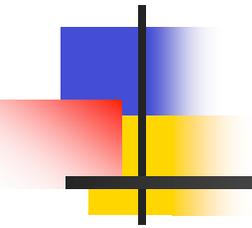
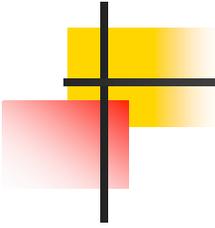


Document Lifecycle Tutorial



IETF 70
Vancouver, Canada
2 December 2007



Overview of This Tutorial

1. Where do RFCs come from?
2. Writing an Internet Draft
 - Things to think about before writing your draft
 - Contents of an Internet-Draft
3. The lifecycle from Internet-Draft to RFC
4. Common questions and where to look for more information

1. Where do RFCs come from?

4 document streams as defined in RFC 4844:

1. IETF

- Working Group
- AD-sponsored (aka Individual)

2. IAB

3. IRTF

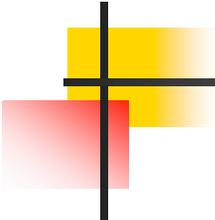
4. RFC Editor (Independent Submission)

Streams in Relation to Categories

As described in RFC 3932:

- IETF** ▪ IETF WG to [Standards Track](#): Includes WG consensus, review in the IETF, IETF Last Call, and IESG approval
 - IETF** ▪ IETF WG to [Experimental/Informational](#): Includes WG consensus, review in the IETF, and IESG approval
 - IETF** ▪ AD sponsored to [Standards Track](#): Includes review in the IETF, IETF Last Call, and IESG approval
 - IETF** ▪ AD sponsored Individual to [Experimental/Informational](#): Includes some form of review in the IETF and IESG approval
- IAB / IRTF** Documents for which special rules exist
- RFC Editor** RFC Editor documents to [Experimental/Informational](#)

RFC Categories



- RFC 2026 defines specification **maturity levels**:
 - Standards track: **Proposed, Draft, Standard**.
 - Non-standards track: **Experimental, Informational, Historic**.
 - "Almost standard": **Best Current Practice**.
- Shown on RFC header as "**Category**:"
 - Except, one category "Standards Track" for PS, DS, S.
 - Often called "status".
- A published RFC can NEVER change, but its *category* can change (see rfc-index.txt).

AD-sponsored (Individual)

RFC Editor (Independent)

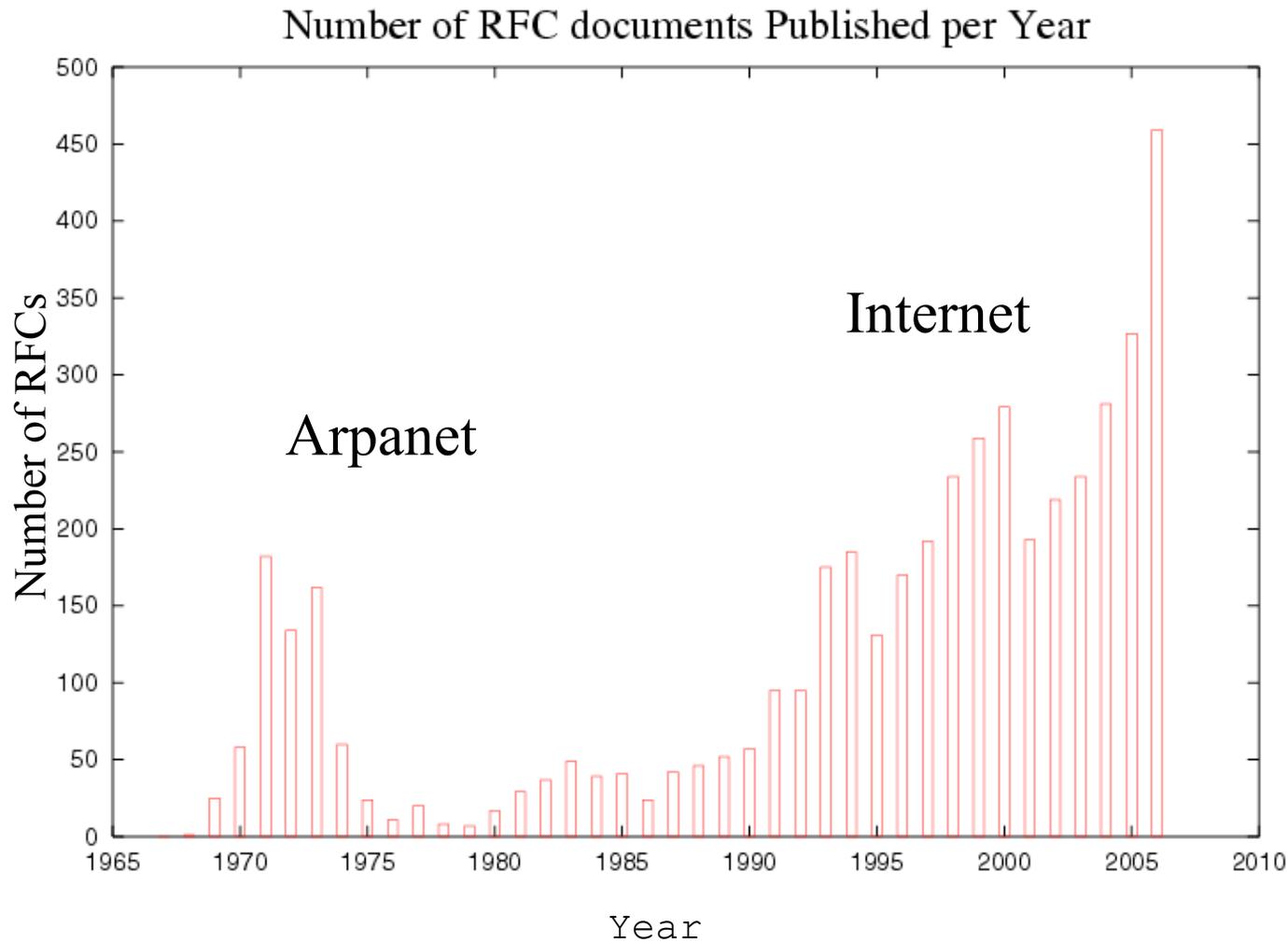
Post as an Internet-Draft.

- Contact the relevant AD.
- Standards Track, Experimental, or Informational category.
- See ION
<http://www.ietf.org/IESG/content/ions/ion-ad-sponsoring.html>

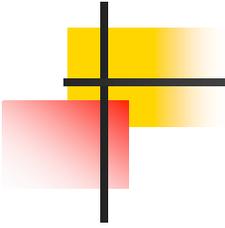
- Contact the RFC Editor.
- RFC Editor reviews and decides whether publication is appropriate.
- IESG reviews for conflict with any WG, makes publish/do-not-publish recommendation.
- RFC Editor has final decision, with advice from Editorial Board.
- Only Experimental or Informational category.
- See www.rfc-editor.org/indsubs.html and RFC 4846.

For a discussion of when a document cannot be processed as an independent submission, see RFC 3932.

RFC Publication Rate



For more information on the RFC Series and its history, see the tutorial slides www.rfc-editor.org

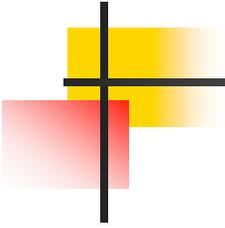


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2. **Writing an Internet Draft**
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 - Contents of an Internet-Draft
3. The lifecycle from Internet-Draft to RFC
4. Common questions and where to look for more information

Writing an Internet-Draft

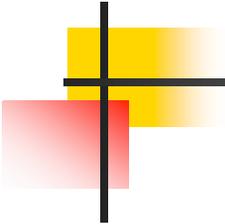
- All RFCs start with an Internet Draft
- A well-formed RFC starts with a well-formed I-D.
 - <http://www.ietf.org/ID-Checklist.html>
 - <http://www.ietf.org/ietf/1id-guidelines.txt>
- Authoring tools
 - <http://www.rfc-editor.org/formatting.html>
 - <http://tools.ietf.org//inventory/author-tools>
 - More on this later.



Overview of This Tutorial

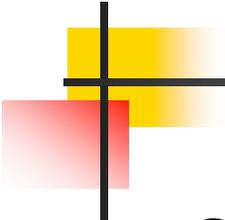
1. Where do RFCs come from?
2. Writing an Internet Draft
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Change Control

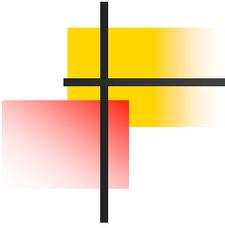


- Who should have change control over your document?
 - The IETF has change control over all IETF documents (whether WG or AD-sponsored).
 - You may remain the editor of the document, but it will be your job to reflect IETF consensus
 - If you want to (or need to) retain change control, consider an RFC editor independent submission
 - Still subject to review, but document does not need to reflect IETF consensus
 - Example: Informational publication of a proprietary protocol - should be submitted to RFC Editor with name of company in title

Copyrights and Patents



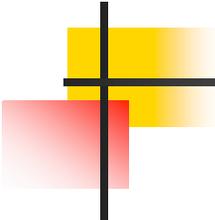
- Copyright Issues
 - Specified in [RFC 3977/BCP 77](#) “IETF Rights in Contributions”
 - Independent submissions: generally follow IETF rules
- Patent (“IPR”) issues
 - RFC boilerplate specified in [RFC 3978/BCP 78](#) “Intellectual Property Rights in IETF Technology”
 - Recently updated by [RFC 4748/BCP 78](#).
- Generally, you supply the correct boilerplate in the Internet Draft, and the RFC Editor will supply the correct boilerplate in the RFC.



Patents and IETF Documents

- Will the IETF publish standards that include patented technology?
 - Yes, but WGs may prefer non-patented technology
 - Licensing terms may affect WG acceptance and what implementations are available
- If you know of patented technology in your draft
 - Declare it immediately after publication
 - Carefully consider your patent terms

Text Formatting Tools

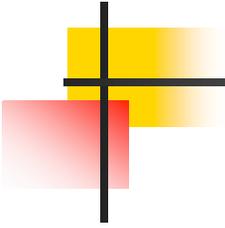


- Author tools: www.rfc-editor.org/formatting.html
 - xml2rfc
 - nroff
 - Microsoft word template
 - LaTeX
- RFC Editor does final RFC formatting using venerable Unix tool nroff -ms.

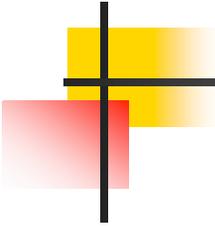
xml2rfc (<http://xml.resource.org>)

- The xml2rfc tool converts an XML source file to text, HTML, or nroff. RFC 2629 and its unofficial successor (<http://xml.resource.org/authoring/draft-mrose-writing-rfcs.html>) define the format.
- XML templates are available from <http://www.rfc-editor.org/formatting.html>:
 1. For a generic I-D (by Elwyn Davies)
 2. For an I-D containing a MIB (by David Harrington)

Overview of This Tutorial



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4. Contents of an Internet-Draft

- Header
 - Title
 - Header boilerplate (Status of Memo)
 - Abstract
 - Table of Contents (not required for short docs)
-
- Body
 - IANA Considerations (RFC 2434 and 2434bis)
 - Security Considerations (RFC 3552)
 - Internationalization Considerations (RFC 2277)
-
- Authors' Addresses
 - IPR boilerplate
 - See RFCs 3978, 3979, and 4748 (BCPs 78 and 79).

Internet-Draft Header

```
Network Working Group                                D. Crocker, Ed  
Internet-Draft                                     Brandenburg InternetWorking  
Obsoletes: 4234 (if approved)                       P. Overell  
Intended status: Standards Track                   THUS plc  
Expires: April 11, 2008                           October 9, 2007
```

Augmented BNF for Syntax Specifications: ABNF

- Updates, Obsoletes: relation to earlier RFCs.
- Intended Status (Category)

RFC Header

```
Network Working Group
Request for Comments: 2396
Updates: 1808, 1738
Category: Standards Track
```

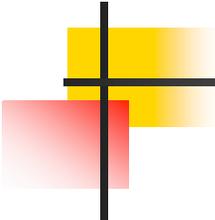
```
T. Berners-Lee
MIT/LCS
R. Fielding
U. C. Irvine
L. Masinter
Xerox Corporation
August 1998
```

Corresponding RFC Index entry (search on "2396")

RFC2396	T. Berners-Lee, R. Fielding, L. Masinter	August 1998	ASCII	Obsoleted by RFC3986, Updates RFC1808, RFC1738, Updated by RFC2732 Errata	DRAFT STANDARD
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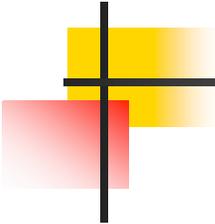
Red fields were not known when RFC was published

Authors in Header



- Limited to lead authors, document editors.
- There must be very good reason to list more than 5.
- Each author in the header must give approval during AUTH48 review.
- Each author in the header should provide unambiguous contact information in the Authors' Addresses section.
- Other names can be included in Contributors and/or Acknowledgments sections.

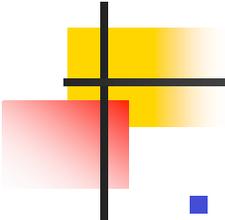
Titles



- Should be thoughtfully chosen
- No un-expanded abbreviations - except for very well-known ones (e.g., IP, TCP, HTTP, MIME, MPLS)
- We like short, snappy titles, but sometimes we get titles like:
 - *"An alternative to XML Configuration Access Protocol (XCAP) for manipulating resource lists and authorization lists, Using HTTP extensions for Distributed Authoring and Versioning (DAV)"*

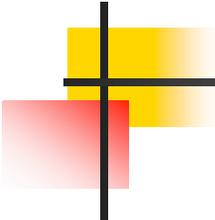
Abstracts

- Carefully written for clarity (*HARD* to write!)
- No un-expanded abbreviations (again, except well-known)
- No citations
 - Use “RFC xxxx”, not “[RFCxxxx]” or “[5]”
- Less than 20 lines! Shorter is good.
- **Not a substitute for the Introduction;** redundancy is OK.
- We recommend starting with “This document...”



Body of an Internet-Draft

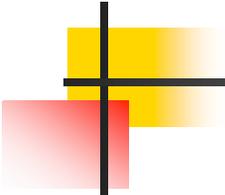
- First section should generally be “1. Introduction”.
- Special sections that may appear:
 - Contributors, Acknowledgments
 - Internationalization Considerations
 - When needed -- see Section 6, RFC 2277/BCP 18.
- Sections that **MUST** appear:
 - Security Considerations
 - IANA Considerations
 - References (Normative and/or Informative)



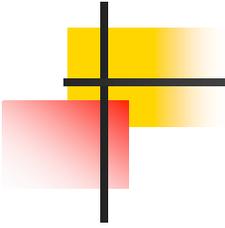
Security Considerations Section

- Security Considerations section **required** in every RFC.
- See [RFC 3552](#): “Guidelines for Writing RFC Text on Security Considerations”
- Important!

IANA Considerations Section



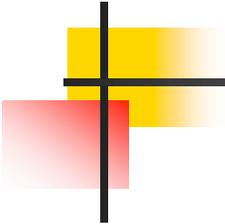
- What is an IANA Considerations section?
 - A guide to IANA on what actions will need to be performed
 - A confirmation if there are NO IANA actions
- Section is required in draft
 - But “No IANA Considerations” section will be removed by RFC Editor.



Why is this section important?

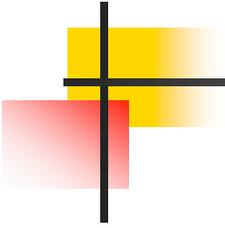
- Forces the authors to 'think' if anything should be requested from IANA
- A clear IANA Considerations section will allow the IANA to process the IANA Actions more quickly
- Establishes documented procedures

What should be included in the IANA Considerations section?



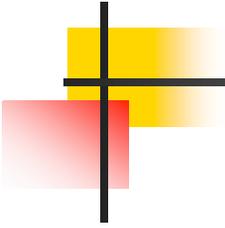
- What actions is the document requesting of IANA
- Individual number or name registrations
- New registries (number or name spaces)
- Registration procedures for new registries
- Reference changes to existing registrations

BE CLEAR AND DESCRIPTIVE IN YOUR INSTRUCTIONS
(IANA is not the expert for your name or number space)



Review of IANA Considerations

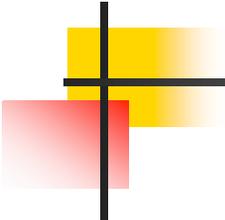
- IANA Consideration sections are reviewed before the document is published as an RFC
 - During IESG Last Call
 - During IESG Evaluation
 - IANA will also review your section at any time by request
- If you do not have an IC section or if your IC section is not complete, your document will not move forward



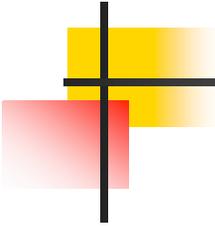
Where to get help on writing this section

- See RFC 2434, “Guidelines for Writing an IANA Considerations Section in RFCs”
 - Soon to be replaced by RFC2434bis
- Look at existing registries for examples
- Ask IANA
 - Available at the IANA booth at IETF meetings
 - Send an e-mail [iana@iana.org] or [michelle.cotton@icann.org]

References



- Normative vs. Informative
 - Normative refs can hold up publication.
- We **STRONGLY** recommend against numeric citations "[37]".
- Citations and references must match.
- Handy file of RFC reference text:
 - <ftp://ftp.rfc-editor.org/in-notes/rfc-ref.txt>
- Include draft strings of any I-Ds.



Writing the body of your draft

- Editorial guidelines
- Formal languages and MIBs

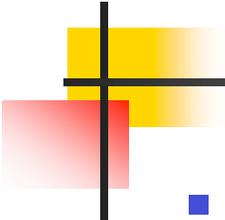
“Instructions to Request for Comments (RFC) Authors”. draft-rfc-editor-rfc2223bis-08.txt aka

<ftp.rfc-editor.org/in-notes/rfc-editor/instructions2authors.txt>

Writing Internet-Drafts

- Simple fact: writing clear, unambiguous technical prose is **very HARD** !!
- Not *literary* English, but *comprehensibility* would be nice!
 - Avoid ambiguity.
 - Use consistent terminology and notation.
 - If you choose “4-bit”, then use it throughout (not “four-bit”).
 - Define each term and abbreviation at first use.
 - Expand every abbreviation at first use.
 - See the abbreviations and terms lists available from <http://www.rfc-editor.org/howtopub.html>

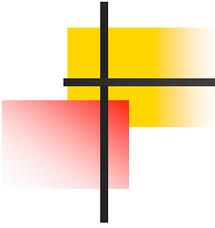
Style



- Primary goal: **clear, unambiguous technical prose.**
- The RFC Editor staff generally follows two sources for style advice:
 - Strunk & White (4th Ed., 2000)
 - "A Pocket Style Manual" by Diana Hacker (4th Ed., 2004)
- **In any case, internally consistent usage is objective.**

Grammar Tips

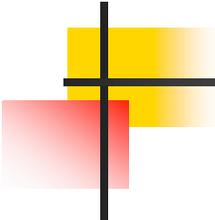
- Avoid passive voice (backwards sentences).
 - “In this section, the network interface is described.”
vs. “This section describes the network interface.”
- Some Protocol Engineers over-capitalize Nouns.
- “which” vs. “that”
For example:
 - (non-restrictive which: all RST attacks rely on brute-force)
 - **It should be noted that RST attacks, which rely on brute-force, are relatively easy to detect at the TCP layer.**
 - (restrictive that: only *some* RST attacks rely on brute-force)
 - **It should be noted that RST attacks that rely on brute-force are relatively easy to detect at the TCP layer.**



Punctuation Conventions

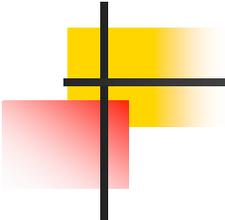
- A comma before the last item of a series:
 - “TCP service is reliable, ordered, and full-duplex”
 - Avoids ambiguities, clearly shows parallelism.
- Punctuation outside quote marks:
“This is a sentence”{.|?|!}
 - To avoid computer language ambiguities.

Use of Formal Languages

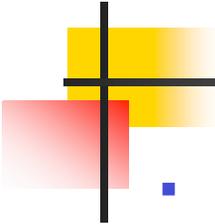


- Formal languages and pseudo-code can be useful as an aid in explanations, although English remains the primary method of describing protocols.
- Pseudo-code judged on the basis of clarity.
- Formal Languages (e.g., ABNF, XML, ASN.1 (MIBs))
 - Requires a normative reference to language specification
 - RFC Editor will run verifier program.
- www.ietf.org/IESG/STATEMENTS/pseudo-code-in-specs.txt
- [ftp.rfc-editor.org/in-notes/rfc-editor/UsingPseudoCode.txt](ftp://rfc-editor.org/in-notes/rfc-editor/UsingPseudoCode.txt)

MIB RFCs: A Special Case

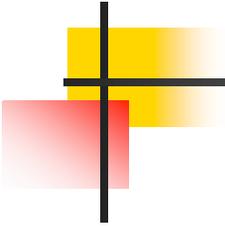


- MIB references
 - O&M Web Site at www.ops.ietf.org/
 - MIB doctors at www.ops.ietf.org/mib-doctors.html
 - MIB Review: See RFC 4181, BCP 111: "Guidelines for Authors and Reviewers of MIB Documents"
- Tools
 - <http://www.ops.ietf.org/mib-review-tools.html>
 - smilint at www.ibr.cs.tu-bs.de/projects/libsmi/
 - SMICng at www.snmpinfo.com/
- MIB boilerplate
 - The Internet-Standard Management Framework:
www.ops.ietf.org/mib-boilerplate.html
 - Security Considerations: www.ops.ietf.org/mib-security.html



Hints to Authors

- Read your I-D carefully **before** submission, as you would read the final document in AUTH48!
- Respond promptly to all messages from RFC Ed.
- If your I-D is in the queue, and you see typos or have a new email address, send us an email.
- DON'T use numeric citations (unless you submit an XML file).
- Avoid gratuitous use of requirement words (MUST, etc.)
- Craft title and abstract carefully.
- Remember that your document should be understandable by people who are not deep experts in the subject matter.



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IETF Document Lifecycle

WG documents go through the WG process...

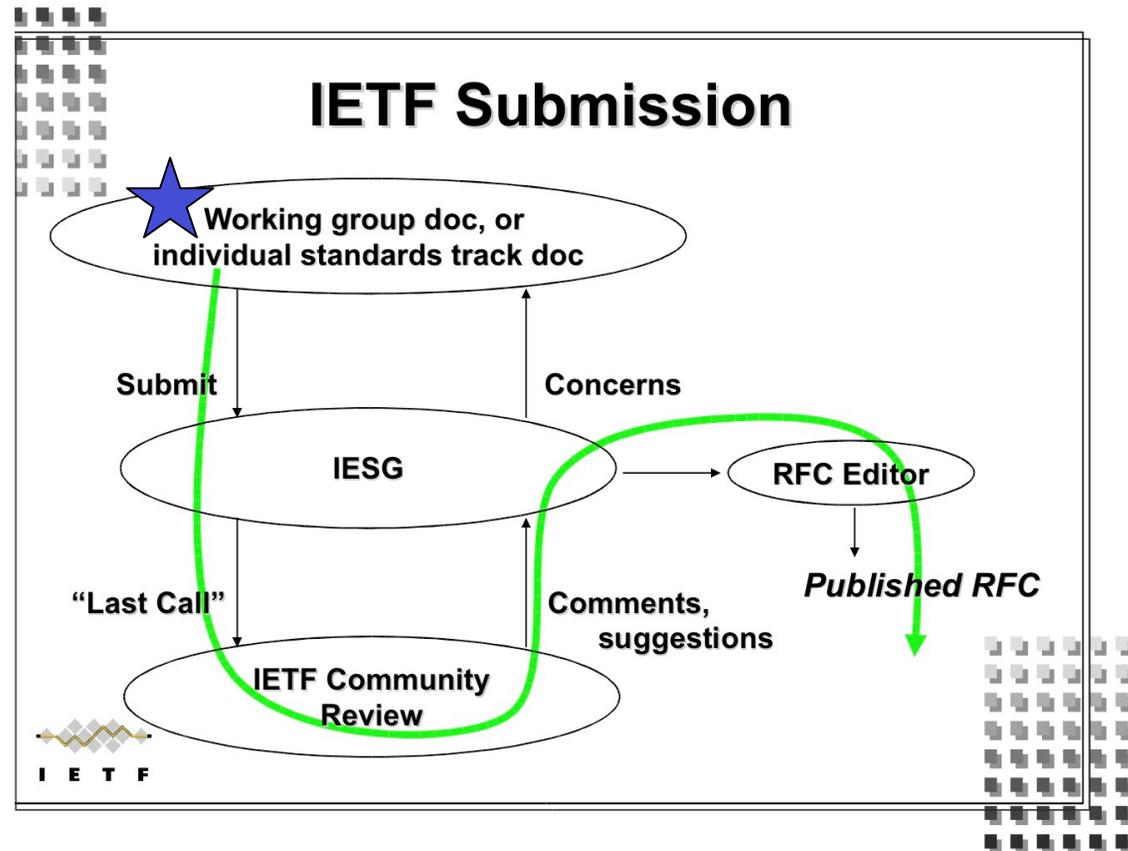
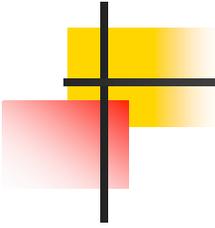


Diagram taken from Scott Bradner's Newcomers Tutorial

Steps in the WG process

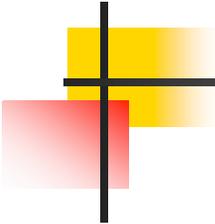
- Initial Submission
- Author Refinement
- WG Acceptance
- Editor Selection
- WG Refinement
- WG Last Call
- WG Request to Publish



Steps in the WG process

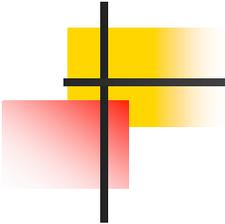
- Initial Submission
 - Original idea or issue is submitted to the WG
 - May be done via mailing list or at a meeting
 - Should become an Internet-Draft (or part of one)
 - Chairs will reject submissions that don't fit within the WG charter, in chair judgment
 - May refer submission to more appropriate groups or areas
 - Chairs should reject submissions that aren't relevant or don't meet minimal quality requirements
 - There is no admission control on IETF Internet-Drafts
 - Rejections can be appealed

Steps in the WG process

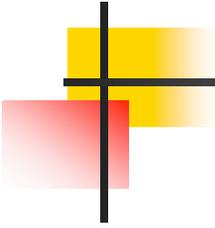


- Author Refinement
 - Idea is more fully documented or refined based on feedback
 - May be done by the person who originally submitted the idea/issue, or by others
 - May be done by individual, ad hoc group or more formal design team
 - Change control lies with author(s) during this phase

Steps in the WG process



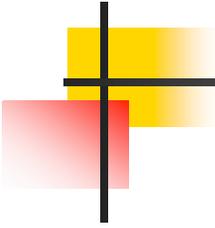
- WG Acceptance
 - For a document to become a WG work item, it must:
 - Fit within the WG charter (in the opinion of the chairs)
 - Have significant support from the working group, including:
 - People with expertise in all applicable areas who are willing to invest time to review the document, provide feedback, etc.
 - Current or probable implementers, if applicable
 - Be accepted as a work item by a rough consensus of the WG
 - Should reflect WG belief that the document is taking the correct approach and would be a good starting place for a WG product
 - Have corresponding goals/milestones in the charter
 - Goals/milestones approved by the Area Directors
 - Adopting a specific draft is not approved by Area Directors



Steps in the WG process

- Editor Selection

- Editor(s) will be selected by the WG chairs
 - Usually one or more of the original authors – but not always
 - Must be willing to set aside personal technical agendas and change the document based solely on WG consensus
 - Must have the time and interest to drive the work to completion in a timely manner
- Make this decision explicitly, not by default!
 - Some people are concept people, some are detail people
 - Some people start strong, some people finish strong
 - Some people have changes in life circumstances

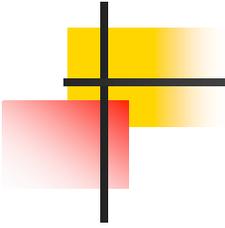


Steps in the WG process

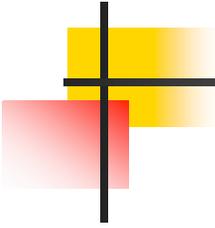
- WG Refinement

- Document updated based on WG consensus
 - All technical issues and proposed changes MUST be openly discussed on the list and/or in meetings
 - All changes must be proposed to the mailing list
 - Complex changes should be proposed in separate IDs
 - The WG has change control during this phase
 - Changes are only made based on WG consensus
 - During this phase, silence will often indicate consent

Steps in the WG process

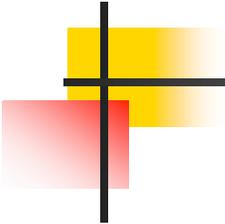


- WG Last Call
 - Generally the final check that the WG has rough consensus to advance the document to the IESG
 - The WG believes that this document is technically sound
 - The WG believes that this document is useful
 - The WG believes that this document is ready to go to the IESG
 - A disturbingly large number of people wait until WGLC to read drafts!



Steps in the WG process

- WG Last Call
 - The document must be reviewed and actively supported by a significant number of people, including experts in all applicable areas
 - ... or it should not be sent to the IESG
 - Silence does NOT indicate consent during this phase
 - Why would we want to waste IESG time on a document that we can't be bothered to review ourselves?



Has anyone else read the draft?

- Standards-track documents reflect IETF views
 - Not just a working group's view
- Standards-track protocols run on the Internet
- Avoid the group-think trap
 - Ask "who else should be reading this draft?"
 - Your ADs are good sources of potential reviewers
- Don't wait until the last minute to share
 - Prevent the "last-minute surprise"
- Some "last minute surprise" examples
 - Discovering that no one plans to implement the new spec
 - Discovering that the security mechanism does not meet current requirements
 - Learning that work overlaps or conflicts with work in other WGs

IETF Document Lifecycle

When ready, documents are submitted to the IESG for approval...

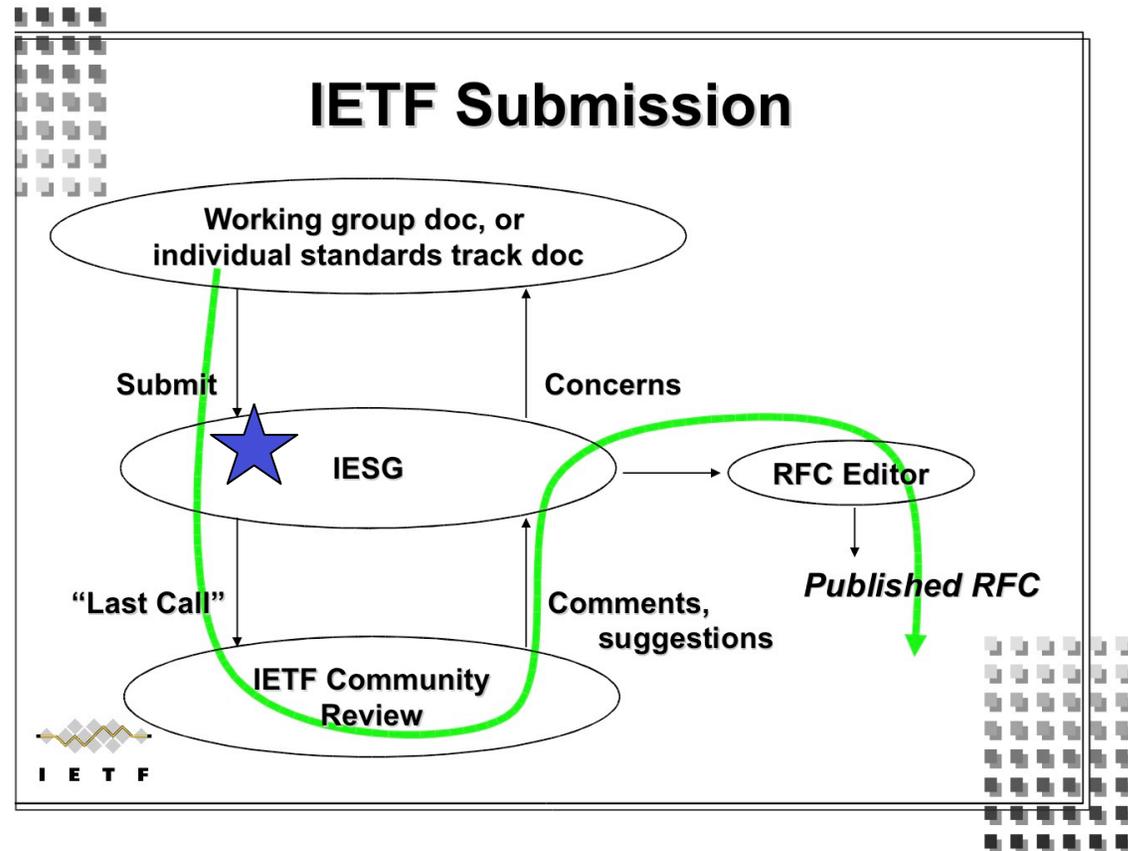
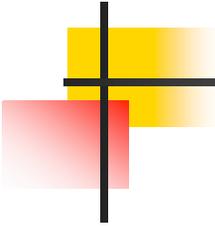


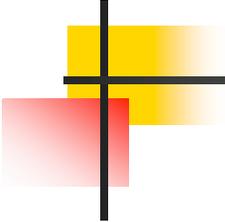
Diagram taken from Scott Bradner's Newcomers Tutorial



Document Shepherding

- Must be one Shepherd for every draft to be published
 - Usually a WG chair for a WG document
- Provide the PROTO write up as the request to your AD for publication
 - RFC 4858: Document Shepherding from Working Group Last Call to Publication
- During AD evaluation, manage discussion between editors, WG, and AD
- During IETF Last Call, follow up on feedback and comments
- During IETF, follow up on all IESG feedback
- Follow up on all IANA and RFC Editor requests

IESG review, early steps



- Document shepherd sends a Publication Request to the IESG, including a PROTO write-up
- After Publication Request, status of the document can be found in the Internet-Draft Tracker
 - <https://datatracker.ietf.org/idtracker/>
- Before moving to next steps, your AD must approve the document
 - May include review by area directorate(s) or other experts
 - Sometimes the AD asks for a revision to clear his/her own objections before advancing

IETF Document Lifecycle

AD sends standards track or individual documents for full IETF Review...

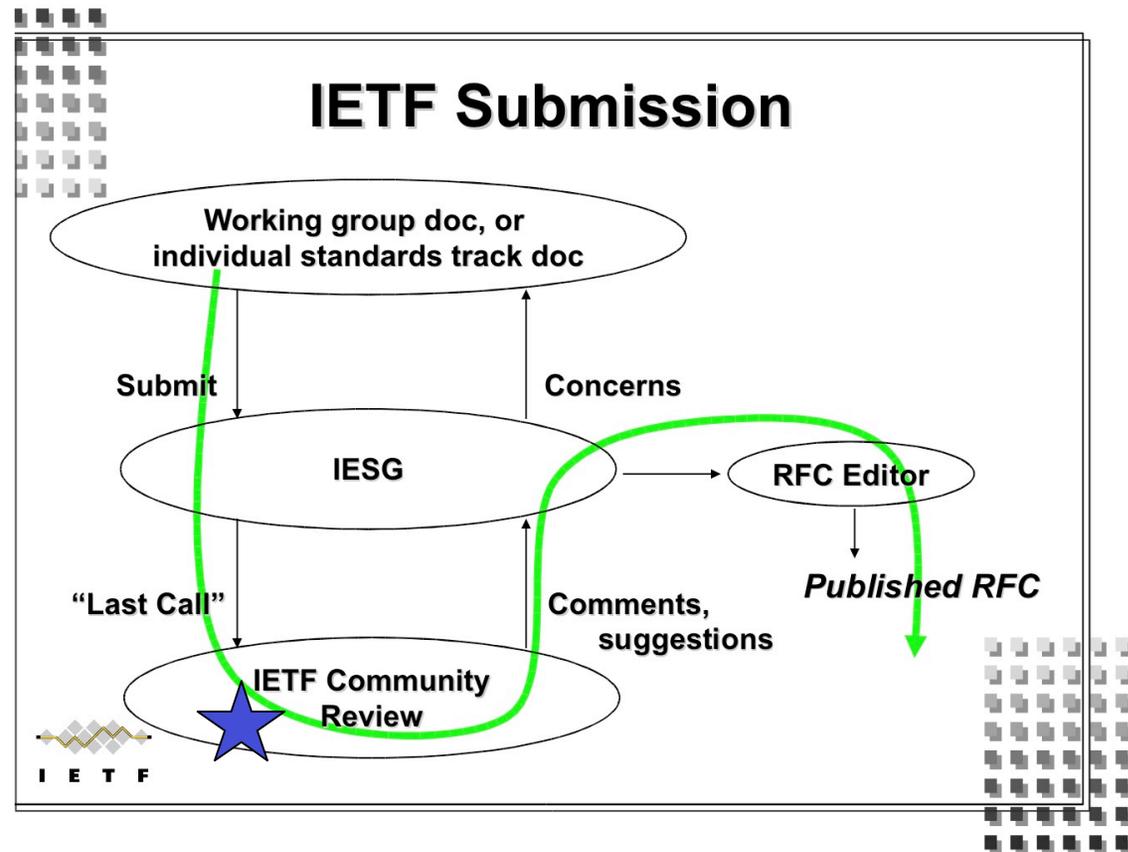
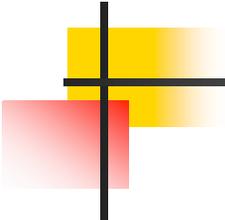


Diagram taken from Scott Bradner's Newcomers Tutorial



IETF Last Call

- After the AD approves the document, he/she may send the document for a final IETF review called “IETF Last Call” (IETF LC)
- Length of the IETF LC depends on document type and history
 - All standards track and BCP documents go to IETF LC
 - AD-sponsored individual submissions have a 4-week IETF LC
 - WG documents have a 2-week IETF LC
 - AD may choose to send informational or experimental documents for an IETF LC
 - Key architecture or framework documents
- During IETF LC, individuals, cross-area review teams and directorates will review the document
 - All comments must be addressed before the document advances

IETF Document Lifecycle

Document is reviewed and approved by the full IESG...

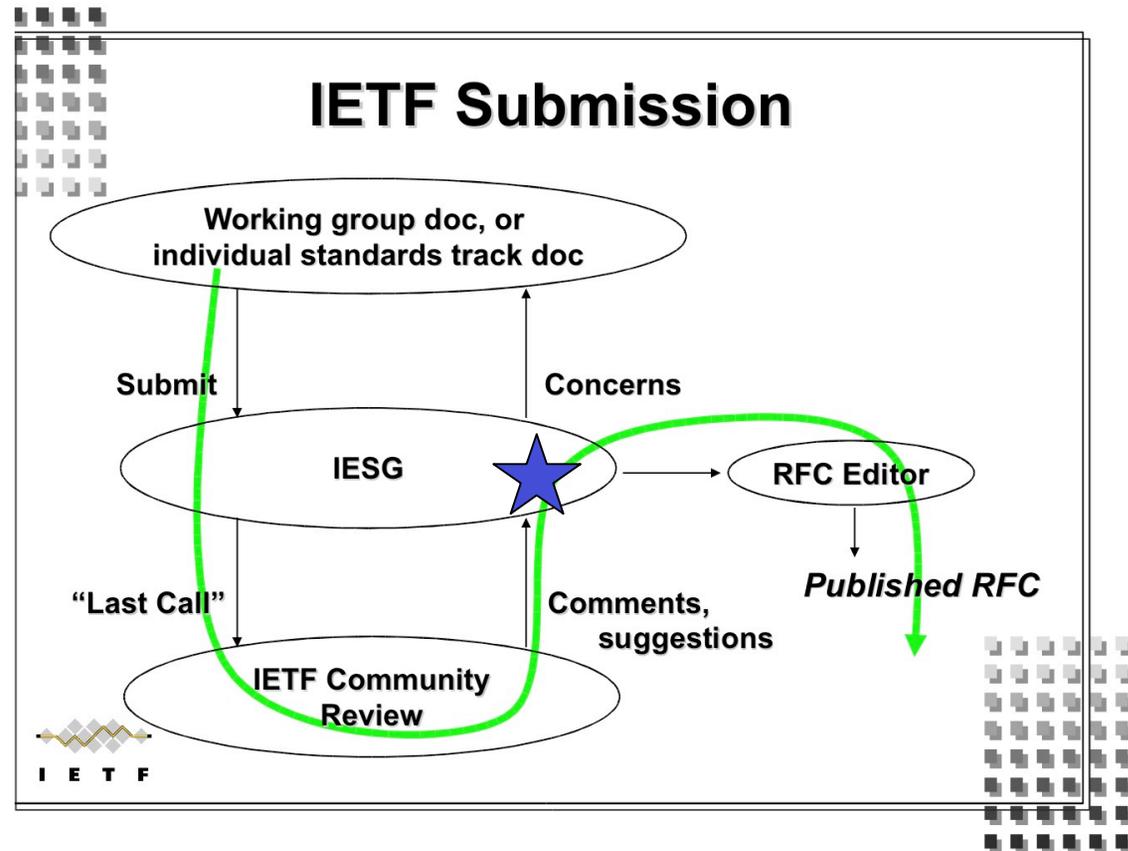
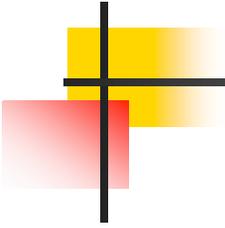
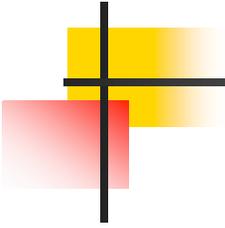


Diagram taken from Scott Bradner's Newcomers Tutorial



IESG review, later steps

- Directorate Reviews
 - Many ADs/Areas have directorates that they use to review documents before approval
 - MIB Doctors, Security Directorate, Gen ART, etc.
 - If these reviews were not completed during IETF LC, they may be done now
- Preliminary IANA Review
 - Looks at IANA Considerations to start figuring out the namespaces that will need to be IANA managed and/or additional entries in existing namespaces

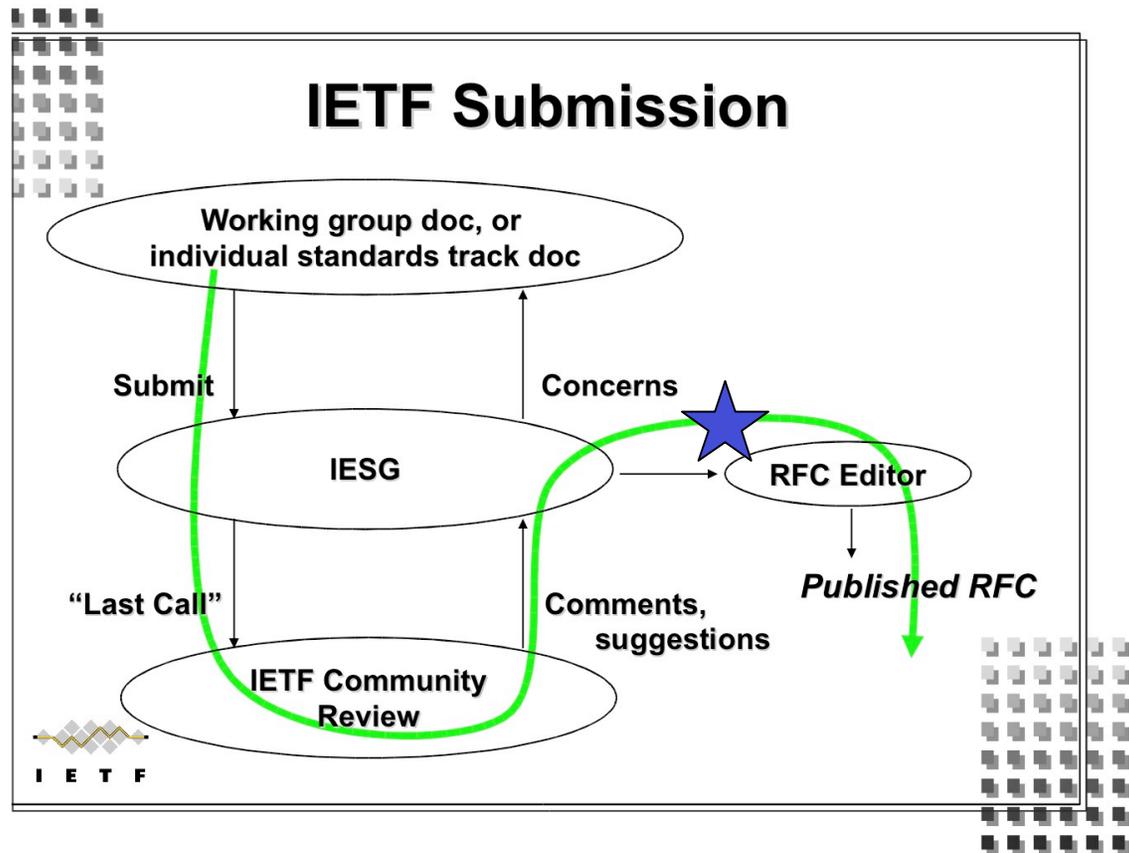


IESG cross-discipline review

- Takes IETF Last Call comments into account
- Can decide to pass document on for publication
- Makes final decision on document track/status
- Can send document back to WG with comments and “DISCUSS” issues which must be resolved before the document proceeds to RFC
 - <http://www.ietf.org/u/ietfchair/discuss-criteria.html>
- If you negotiate significant changes with the IESG please show them to your WG before RFC publication!

IETF Document Lifecycle

After your document has been approved by the IESG...



RFC Editor Publication Process

- IESG approval -> your document is added to the queue
- Step 1: Send your source file.
 - questions from the RFC Editor
- Step 2: Answer questions.
 - AUTH48 notification with a pointer to the edited version
- Step 3: Review your document carefully and send changes / approvals for publication.
- Step 4: See your document progress.
- Step 5: Publication!

Step 1: Send your source file.



From: rfc-editor@rfc-editor.org

Subject: [RFC State] <draft-ietf-wg-topic-05> has been added to RFC Editor database.

- Your document has been added to the queue (www.rfc-editor.org/queue.html).
- Please send us your nroff or xml source file.
 - Let us know if there are any changes between the version you send and the IESG-approved version.
- If you don't have one, don't worry, we will use the Internet-Draft text to create an nroff file.

Step 2: Answer questions.



From: rfc-editor@rfc-editor.org or *@isi.edu
Subject: draft-ietf-wg-topic-05

- Please reply to questions about your draft. Typically, these questions are about
 - missing citations
 - Ex: [RFC4301] appears as a normative reference, where would you like to cite it in the text?
 - inconsistent terminology
 - Ex: Which form of the term should be used throughout?
RESTART Flag / Re-Start flag / Restart Flag
 - unclear sentences

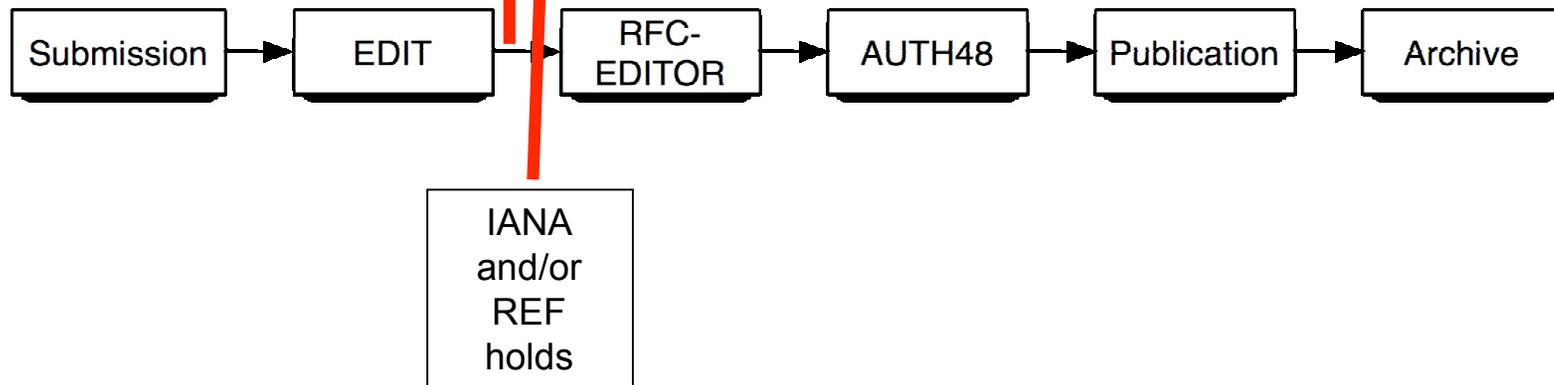
Step 3: See your document progress.



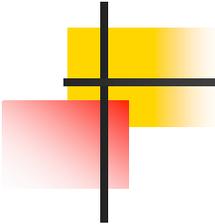
From: rfc-editor@rfc-editor.org

Subject: [RFC State] <draft-ietf-wg-topic-05> has changed state

Basic Process



Also, you can check <http://www.rfc-editor.org/queue.html>



More details on queue states

- Normative References

- Set of RFCs linked by normative refs must be published simultaneously.
- Two hold points:
 - MISSREF state: a doc with norm. ref to a doc not yet received by RFC Editor.
 - REF state: a doc that is edited but waiting for dependent docs to be edited.

- IANA

- Acts on IANA Considerations section (more on this later).
- Creates new registries and assigns numbers.

Step 4: Review your document carefully

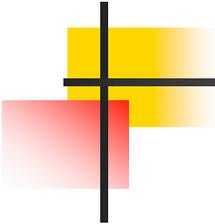


From: rfc-editor@rfc-editor.org

Subject: AUTH48 [SG]: RFC 4999 <draft-ietf-wg-topic-05>

- This is your chance to review the edited version.
- We send pointers to the txt and diff files
 - and the XML file (when AUTH48 in XML)
- Submit changes by sending OLD/NEW text or indicating global changes.
 - Insert directly into the XML file (when AUTH48 in XML)
- Each author listed on the first page must send their approval before the document is published.

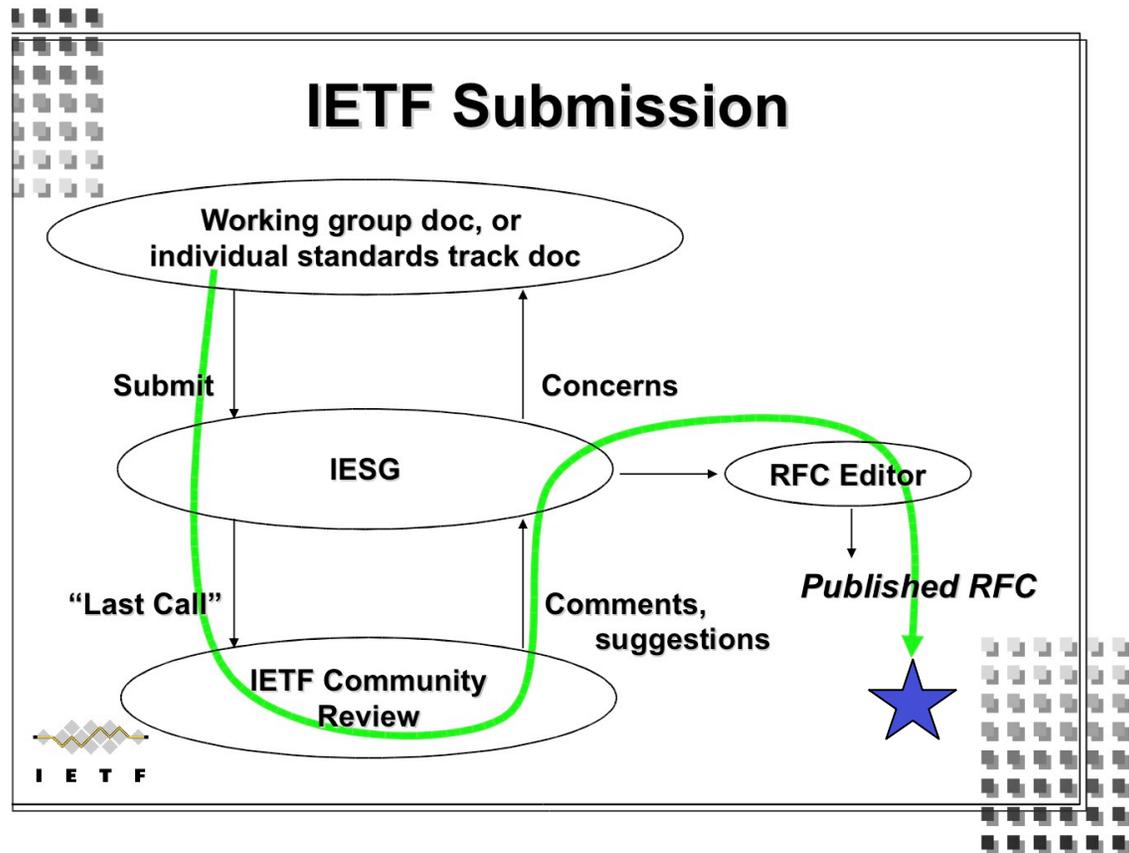
More about AUTH48: Final Author Review



- Last-minute editorial changes allowed, but should not be substantive or too extensive.
 - Else, must get OK from AD, WG chair.
- This process can involve a fair amount of work & time
 - AT LEAST 48 hours!
 - All listed authors must sign off on final document
 - Authors should take it seriously - review the entire document, not just the diffs.
 - Your last chance to avoid enrollment in the *Errata Hall of Infamy!*

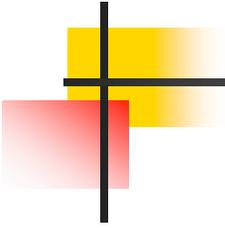
IETF Document Lifecycle

Congratulations!
Your document
is now an RFC...



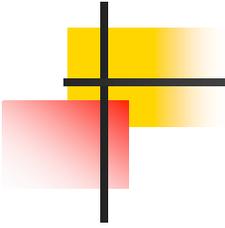
Step 5: Publication!

- Announcement sent to lists:
ietf-announce@ietf.org and rfc-dist@rfc-editor.org
- Canonical URI:
<http://www.rfc-editor.org/rfc/rfcXXXX.txt>
- Also available here:
<ftp://ftp.rfc-editor.org/in-notes/rfcXXXX.txt>
- Mirrored at IETF site and other sites.
- NROFF and XML source files archived for later revisions.



Errors in RFCs

- www.rfc-editor.org/errata.php
 - A list of technical and editorial errors that have been reported to the RFC Editor.
 - Verified by the authors and/or the IESG, unless marked "Reported".
 - The RFC Editor search engine results contain hyperlinks to errata, when present.
- How to report errata
 - Use the online form available from the errata page



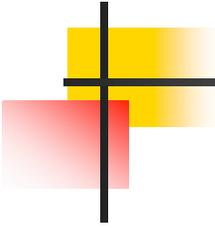
Overview of This Tutorial

1. Where do RFCs come from?
2. Writing an Internet Draft
 - Things to think about before writing your draft
 - Contents of an Internet-Draft
3. The lifecycle from Internet-Draft to RFC
4. Common questions and where to look for more information

Q: Why hasn't my document been published'

A: You can check the state of your document online at www.rfc-editor.org/queue.html

- "IANA" indicates waiting on IANA considerations
- "REF" indicates there are normative references
- "AUTH48" indicates each author must send final approval of the document



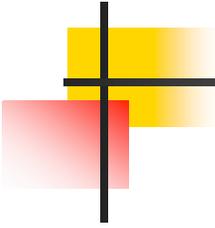
Q: What if one of the authors cannot be located during AUTH48?

A: You have several options:

- An AD can approve the document in place of the unavailable author. See <http://www.ietf.org/IESG/STATEMENTS/auth48-announcement.txt>
- The author can be moved to a Contributors or Acknowledgments section.

Q: What about April 1st RFCs?

- April 1st RFCs: Jon Postel's playful side
 - A little humorous self-parody is a good thing...
 - Most, but not all, April 1st RFCs are satirical documents.
 - We expect you can tell the difference ;-)
- April 1 submissions are reviewed for cleverness, humor, and topical relation to IETF themes.
 - Avian Carriers is famous (RFC 1149)
 - Evil Bit is a favorite (RFC 3514)
- Send submissions to the RFC Editor.



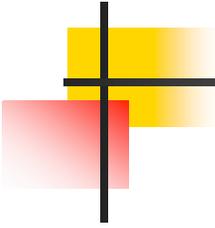
The IETF Web Site & IETF Tools

<http://www.ietf.org>

- Working Group charters, mailing lists
- Meeting agendas and proceedings
- I-D Submission and I-D Tracker
- IESG actions

<http://tools.ietf.org>

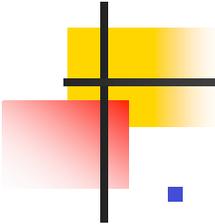
- Tools for preparing drafts, viewing drafts, communicating, following IETF meetings



The RFC Editor Web Site

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

- Search engines for RFCs, Internet-Drafts
- RFC publication queue
- Master index of RFCs
 - <ftp://ftp.rfc-editor.org/in-notes/rfc-index.txt>, .xml
- “Official Internet Protocols Standards” list
- Policy changes, news, FAQ, and more
- Errata look-up and reporting



Thank you

- Questions? Comments?
- Ask us now!
- IETF 70: Stop by the RFC Editor or IANA Desks.
- RFC Editor Interest List: rfc-interest@rfc-editor.org
- Contact us later:
 - Alice Hagens, RFC Editor, rfc-editor@rfc-editor.org
 - Margaret Wasserman, ThingMagic, margaret@thingmagic.com