Document Lifecycle Tutorial

IETF 82
Taipei, Taiwan
13 November 2011
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 find 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. Independent Submission
RFC Categories

- RFC 2026 defines specification maturity levels.
  - Standards Track (as updated by RFC 6410):
    - Proposed Standard and Internet Standard
    (Draft Standard will no longer be used.)
  - Non-standards track: Experimental, Informational, Historic
  - “Almost standard”: Best Current Practice

- Shown on RFC header as “Category:”
  - For Standards Track, only “Standards Track” is shown.
  - Often called “status”.

- A published RFC can NEVER change, but its category can change (see rfc-index.txt).
Streams in Relation to Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>IETF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IETF</td>
<td>IETF WG to Standards Track</td>
<td>Includes WG consensus, review in the IETF, IETF Last Call, and IESG approval</td>
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</tr>
<tr>
<td>IAB / IRTF</td>
<td>Documents for which special rules exist</td>
<td></td>
</tr>
<tr>
<td>Independent</td>
<td>Via the ISE to Experimental, Informational, or Historic</td>
<td></td>
</tr>
</tbody>
</table>

[This list is paraphrased from RFC 3932, recently obsoleted by RFC 5742.]
<table>
<thead>
<tr>
<th>AD-sponsored (Individual)</th>
<th>Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Post as an Internet-Draft.</strong></td>
</tr>
<tr>
<td></td>
<td>▪ Contact the relevant AD.</td>
</tr>
<tr>
<td></td>
<td>▪ Standards Track, Experimental, Informational, or Historic category.</td>
</tr>
<tr>
<td></td>
<td>▪ For the process, see <a href="http://www.ietf.org/iesg/statement/ad-sponsoring-docs.html">http://www.ietf.org/iesg/statement/ad-sponsoring-docs.html</a></td>
</tr>
<tr>
<td></td>
<td>▪ Contact the Independent Submissions Editor (<a href="mailto:rfc-ise@rfc-editor.org">rfc-ise@rfc-editor.org</a>).</td>
</tr>
<tr>
<td></td>
<td>▪ Only Experimental, Informational, or Historic category.</td>
</tr>
<tr>
<td></td>
<td>▪ ISE reviews and decides whether publication is appropriate.</td>
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<tr>
<td></td>
<td>▪ ISE may receive advice from Editorial Board.</td>
</tr>
<tr>
<td></td>
<td>▪ Per RFC 5742, IESG reviews for conflict with any WG, makes publish/do-not-publish recommendation.</td>
</tr>
<tr>
<td></td>
<td>▪ ISE makes final decision.</td>
</tr>
<tr>
<td></td>
<td>▪ See <a href="http://www.rfc-editor.org/indsubs.html">www.rfc-editor.org/indsubs.html</a> and RFC 4846.</td>
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</tbody>
</table>
RFC Publication Rate

For more information on the RFC Series and its history, see the tutorial slides at www.rfc-editor.org
Implementing the RFC Editor Model (RFC 5620)

Adapted from RFC 5620, Figure 1: Ordinary RFC Series production and process
 RFC Editor Model (Version 2)

- Revision of RFC 5620: draft-iab-rfc-editor-model-v2
- Most aspects have been implemented; an RSE is being hired.
- Discussed on mailing list: rfc-interest@rfc-editor.org
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Writing an Internet-Draft

- All RFCs start as Internet-Drafts.
- A well-formed RFC starts with a well-formed I-D.

- Authoring tools
  - [http://www.rfc-editor.org/formatting.html](http://www.rfc-editor.org/formatting.html)
  - More on this later.

- Submit using the I-D Submission Tool:
  [https://datatracker.ietf.org/submit/](https://datatracker.ietf.org/submit/)
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Change Control

- Who should have change control over your document?
  - The IETF has change control over all IETF documents.
    - You may remain the editor of the document, but it will be your job to reflect IETF consensus in most documents.
    - In rare cases, an AD-sponsored document does not reflect IETF consensus.
  - If you want (or need) retain change control, consider an 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 the ISE with name of company in title.
Copyrights and Patents

- Copyright issues
  - Specified in RFC 5378 / BCP 78 “Rights Contributors Provide to the IETF Trust” (which obsoletes RFCs 3978 and 4748, and updates RFC 2026). See also http://trustee.ietf.org/license-info.

- Patent ("IPR") issues

- 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 posting the draft: https://datatracker.ietf.org/ipr/
  - Carefully consider your patent terms
Text Formatting Tools

- Author tools: [www.rfc-editor.org/formatting.html](http://www.rfc-editor.org/formatting.html)
  - xml2rfc (see next slide)
  - Microsoft word template (see RFC 5385)
  - LaTeX

- RFC Editor does final RFC formatting using venerable Unix tool nroff –ms.

- See also: [http://tools.ietf.org/inventory/author-tools](http://tools.ietf.org/inventory/author-tools)
xml2rfc (http://xml.resource.org)

- The xml2rfc tool converts an XML source file to text, HTML, or nroff. RFC 2629 and its unofficial successor define the format.

- xml2rfc FAQ:  
  http://xml.resource.org/xml2rfcFAQ.html

- XML templates are available from  
  http://tools.ietf.org/tools/templates:
  1. For a generic I-D (e.g., draft-davies-template-bare.xml)
  2. For an I-D containing a MIB (e.g., mib-doc-template-xml.txt)
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4. Contents of an Internet-Draft

- Header
- Title
- Abstract
- Status of This Memo [boilerplate]
- Copyright Notice [See RFC 5378 and http://trustee.ietf.org/license-info]
- Table of Contents [not required for short docs]
- Body
  - IANA Considerations (RFC 5226)
  - Security Considerations (RFC 3552)
  - Internationalization Considerations (RFC 2277)
- Authors’ Addresses
An Internet Attribute Certificate Profile for Authorization

draft-ietf-pkix-3281update-05.txt

Helpful:
- Intended Status (Category)
- Updates, Obsoletes: relation to earlier RFCs (if any)
Here is post-publication metadata: **Obsoleted by**, **Updated by**, or **Errata**

Also found on the info page (www.rfc-editor.org/info/rfcXXXX) and tools.ietf.org HTML versions.
RFC 4346


Canonical URL:
http://www.rfc-editor.org/rfc/rfc4346.txt
This document is also available in this non-normative format: TXT.PDF.

Status:
PROPOSED STANDARD

Obsoletes:
RFC 2246

Obsoleted by:
RFC 5246

Updated by:
RFC 4366, RFC 4680, RFC 4681, RFC 5746

Authors:
T. Dierks
E. Rescorla

Stream:
IETF

Source:
tls (sec)

Please refer here for any errata for this document. To submit a new errata report, go to the main errata page.
Authors in Header

- Limited to lead authors, document editors.
- More than 5 authors is discouraged and will be reviewed.
- 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.
- Additional option: Contributing Authors. See the message from the Acting RSE:
  
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

- Less than 20 lines of concise text
- Carefully written for clarity (HARD to write!)
- No un-expanded abbreviations (again, except well-known)
- No citations
  - Use “RFC xxxx”, not “[RFCxxxx]” or “[5]”
- 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:
  - Requirements Language if needed (see RFC 2119)
  - Contributors, Acknowledgments, Contributing Authors
  - Internationalization Considerations
    - When needed -- see Section 6 of RFC 2277/BCP 18.
- Sections that MUST appear:
  - IANA Considerations
  - Security Considerations
  - References (Normative and/or Informative)
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 IETF 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
How IANA and RFC Editor work together

- After the document is approved, IANA performs any required actions.
- IANA formally communicates with the RFC Editor when the actions are complete and details what they were.
- IANA uses a placeholder for the RFC number in the registries.
- RFC Editor notifies IANA of any changes.
- Upon publication, RFC Editor notifies IANA of the RFC number so that it is updated.
Where to get help on writing this section

- See RFC 5226, “Guidelines for Writing an IANA Considerations Section in RFCs”
- 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]
Security Considerations Section

- Security Considerations section required in every RFC.
- See RFC 3552: “Guidelines for Writing RFC Text on Security Considerations”
- Important!
References

- Normative vs. Informative
  (as defined in http://www.ietf.org/iesg/statement/normative-informative.html)
  - Normative - documents that must be read to understand or implement the technology in the new RFC, or whose technology must be present for the technology in the new RFC to work. [Potential for a hold if not yet published.]
  - Informative - provides additional information.
- Citations and references must match.
- Handy files of RFC reference entries:
  - For xml2rfc: http://xml.resource.org/public/rfc/bibxml/
- Include draft strings of any I-Ds.
Writing the body of your draft

- Editorial guidelines
- Formal languages and MIBs

Primary Sources:

1. Internet-Draft Guidelines:
   http://www.ietf.org/id-info/guidelines.html
2. RFC Style Guide:
   http://www.rfc-editor.org/styleguide.html
Writing Internet-Drafts

- **Primary goal:** clear, unambiguous technical prose.

- Think about internally consistent usage:
  - Use the same terminology and notation throughout.
    - If you choose “4-bit”, don’t switch to “four-bit”.
  - Expand each abbreviation at first use.
  - See the abbreviations and terms lists available from [http://www.rfc-editor.org/styleguide.html](http://www.rfc-editor.org/styleguide.html)
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 pseudocode can be useful as an aid in explanations, although English remains the primary method of describing protocols.


- Formal Languages (e.g., ABNF, XML, MIBs)
  - Requires a normative reference to language specification
  - RFC Editor will run verifier
  - See list of verification tools: http://tools.ietf.org/inventory/verif-tools
MIB RFCs: A Special Case

- MIB references
  - O&M Web Site at [www.ops.ietf.org/](http://www.ops.ietf.org/)
  - MIB doctors at [www.ops.ietf.org/mib-doctors.html](http://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](http://www.ops.ietf.org/mib-review-tools.html)
  - SMICng at [www.snmpinfo.com/](http://www.snmpinfo.com/)

- MIB boilerplate
  - The Internet-Standard Management Framework: [www.ops.ietf.org/mib-boilerplate.html](http://www.ops.ietf.org/mib-boilerplate.html)
  - Security Considerations: [www.ops.ietf.org/mib-security.html](http://www.ops.ietf.org/mib-security.html)
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IETF Document Lifecycle

WG documents go through the WG process...

Diagram from Scott Bradner’s Newcomer’s Tutorial
## Steps in the WG process

<table>
<thead>
<tr>
<th>Green Section</th>
<th>Blue Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Submission</td>
<td>Editor Selection</td>
</tr>
<tr>
<td>Author Refinement</td>
<td>WG Refinement</td>
</tr>
<tr>
<td>WG Acceptance</td>
<td>WG Last Call</td>
</tr>
<tr>
<td></td>
<td>WG Request to Publish</td>
</tr>
</tbody>
</table>
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
  - The draft string usually does not have the WG name at this stage.
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 Director
  - It does not have to be perfect to be adopted by a WG.
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
  - WG chairs can change their selection at a later point in the process (before IESG approval)
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
  - Area Directorates can do early reviews; ADs can suggest and/or request such reviews
- Don’t wait until the last minute to share
- Prevent “last-minute surprises”, such as:
  - 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
When ready, documents are submitted to the IESG for approval...

Diagram from Scott Bradner’s Newcomer’s 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 Last Call, 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 relevant AD, including a PROTO write-up
- After Publication Request, status of the document can be found in the Datatracker
  - [https://datatracker.ietf.org/doc/](https://datatracker.ietf.org/doc/)
- 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
AD sends Standards Track or individual documents for full IETF Review...

Diagram from Scott Bradner’s Newcomer’s 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 intended status 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 to IETF LC (e.g., key architecture or framework documents)
  - AD can request longer IETF LC period
- During IETF LC, individuals, cross-area review teams, and directorates will review the document
  - All comments must be addressed or at least responded to before the document advances
IETF Document Lifecycle

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

Diagram from Scott Bradner’s Newcomer’s 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

- **Official IANA Review**
  - Looks at IANA Considerations to figure 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 that must be resolved before the document proceeds to RFC
  - [http://www.ietf.org/u/ietfchair/discuss-criteria.html](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!
After your document has been approved by the IESG...

Diagram from Scott Bradner’s Newcomer’s Tutorial
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.

Your document has been added to the queue (www.rfc-editor.org/queue2.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.

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/queue2.html
More details on queue states

- **Normative References**
  - Set of RFCs linked by normative refs must be published simultaneously: Shown as “clusters”.
  - 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 (as discussed earlier).
  - 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, we request approval from the Area Director.
- This process can involve a fair amount of work & time
  - AT LEAST 48 hours!
  - Each listed author approves the document before publication. Approvals are tracked on AUTH48 page (link from the queue page).
  - 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!
Congratulations! Your document is now an RFC...

Diagram from Scott Bradner’s Newcomer’s Tutorial
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:

- 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.
- Errata status indicates whether it is Reported (not yet reviewed), Verified, Rejected, or Held for Document Update.
- 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.
  - ADs are the verifiers of errata in IETF stream RFCs.
Hints to Authors

- Read your I-D carefully before submission, as you would read the final document in AUTH48!
- If your I-D is in the queue, and you see typos or have a new email address, send us an email.
- Craft title, abstract, and introduction carefully.
- Avoid gratuitous use of RFC 2119 requirement words (MUST, etc.). If you do use them, add a normative reference to RFC 2119.
- Don’t use numeric citations (unless you submit an XML file).
- Remember that your document should be understandable by people who are not deep experts in the subject matter.
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 find more information
Q: Why hasn’t my draft been published as an RFC?

A: You can check the state of your document on www.rfc-editor.org/queue2.html

- “IANA” indicates waiting on IANA considerations
- “REF” indicates there are normative references. These lead to clusters of documents: click the cluster number on the queue page to see details.
  For example: [C92]
- “AUTH48” indicates each author must send final approval of the document. Follow the link for the detailed status.
  For example: AUTH48 status page
Q: What if one of the authors cannot be located during AUTH48?

A: You have a few options:

- An AD can approve the document in place of the unavailable author. See http://www.ietf.org/iesg/statement/auth48.html

- 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

http://datatracker.ietf.org
  - Working Group charters, mailing lists
  - Meeting agendas and proceedings
  - I-D Submission and Datatracker
  - 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
- “Official Internet Protocols Standards” list
- Policy changes, news, FAQs, and more
- Errata look-up and reporting
- Tutorial slides
Thank you

- Questions? Comments?
  - Ask us now!
  - IETF 82: Stop by the RFC Editor or IANA Desks.
  - RFC Editor Interest List: rfc-interest@rfc-editor.org

- Contact us later:
  - Alice Hagens, RFC Production Center, rfc-editor@rfc-editor.org
  - Alexey Melnikov, alexey.melnikov@isode.com