# RPC workshop on using GitHub during AUTH48

# **IETF 114**

# Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/(Privacy Policy)

## Agenda

- Note Well
- Agenda Bashing
- Overview of Editing Process
- Previous Experiments

#### Agenda, continued

• Ideas from notes.ietf.org:

https://notes.ietf.org/s-wo8xHGRFGkMB6VFQF5fQ?both#

- What benefits and features are we seeking?
- Technology
- Source files and source control
- Can the process be offered to all authors?
- What should pull requests and diffs look like?

# **Overview of the Editing Process**

- EDIT state
  - Document is converted to v3 if need be
  - Updates to XML are made (cleanup of lists, tables, artwork, etc.)
  - Document is copy edited all kinds of edits are made during this phase (e.g., fixing a xref and also asking about the meaning of a passage)
- RFC-EDITOR state
  - Second pass focusing on IANA Considerations, validation of code components, questions to the authors
- AUTH48 state
  - Edits are complete
  - Document and diff files are made available
  - Questions are submitted to the authors

We are focusing on AUTH48 in this workshop. The use of GitHub in EDIT and RFC-EDITOR states is not in scope.

#### **Previous GitHub Experiments**

- RFC 8446 156 pages, 58 AUTH48 questions
- RFC 8829 115 pages, 78 AUTH48 questions
- RFC 9069 15 pages, 12 AUTH48 questions
- RFC 9131 17 pages, 17 AUTH48 questions
- RFC 9245 11 pages, 6 AUTH48 questions

https://www.rfc-editor.org/rpc/wiki/doku.php?id=github\_auth48\_experiments

## RFC 8446

- Authors created an AUTH48 repo <<u>https://github.com/tlswg/tls13-rfc</u>>
- Workflow:
  - Authors worked through the AUTH48 questions and made updates to the XML file in the repo.
  - Editor followed the commits and made the same updates to the RPC copy of the XML file and posted the files per the usual AUTH48 process.
  - Author final approval via email per current AUTH48 process
- GitHub features used: PRs, plain commits, watch

#### **RFC 8829**

- Existing document repo was used and a new branch for AUTH48 created <a href="https://github.com/rtcweb-wg/jsep">https://github.com/rtcweb-wg/jsep</a>.
- The authors created an issue from each question.
- Workflow:
  - The authors provided feedback on each issue.
  - Concluded issues were labeled and assigned to the editor.
  - Editor created branches, edited the XML, and submitted PRs to close the issues.
  - Author final approval via email per current AUTH48 process
- GitHub features used: Issues, PRs, labels, @mentions, assignees

#### **RFCs 9069 and 9131**

- The editor created an AUTH48 repo and invited the authors as collaborators:
  - o <https://github.com/rfc-editor/rfc9069-AUTH48>
  - o <https://github.com/rfc-editor/rfc9131-AUTH48>
- The editor created an issue for each author question.
- Workflow:
  - Both editor and authors created branches, edited the XML, and submitted PRs to close issues.
  - Author final approval via email per current AUTH48 process
- GitHub features used: repo template, issues, PRs, labels, @mentions

#### RFC 9245

- Initially, editor created a repo, but the author requested that the draft repo be forked <<u>https://github.com/rfc-editor/draft-eggert-bcp45bis</u>>
- Suggested updates made as PRs.
- Open questions or comments were made into issues.
- Workflow:
  - Edits were made in markdown.
  - Both editor and authors created branches and submitted PRs to close issues.
  - Markdown was converted to v3 XML at the end.
  - Author final approval via email per current AUTH48 process
- GitHub features used: repo template (initially), issues, PRs

# Let's talk

## What benefits and features are we seeking?

- Tracking content changes?
  - Capturing what change was made when by who and why
  - Auditable? By whom and for how long?
- Distributed authoring?
- Issue tracking?
- Pull requests?

#### Technology

- git vs GitHub vs GitLab vs Google Docs
- Any other candidates?
- Would need to support long-term archiving
  - How would it work with email archives?
- Issue tracking
  - Exportable issues--taking RFC Editor questions out of the XML and exporting them to the author's issue tracker
    - ietf-comments script for converting RFC Editor questions into GitHub issues (https://github.com/mnot/ietf-comments)

#### Source files and source control

- Source control
  - Author controlled or RPC controlled?
- Relationship between source draft and the RFC-to-be
  - Should the author's repo be cloned or forked?
  - Should the RPC start with a fresh repo?

## Can this process be offered to all authors?

- What are the criteria for going forward?
  - Stable process?
  - Identified benefits over original process?
  - Required author skill level? Should training be offered?
- What if it only a subset of authors can use and benefit from the process?
  - What percentage of authors helped would justify costs and resources?

#### What should pull requests and diffs look like?

- Although the RPC makes multiple passes through a document, these passes may not (probably won't) align with short, crisp PRs.
- Given that, can we organize PRs by type?

Wrap up

Thank you!