

RPC Workshop on Using GitHub during AUTH48

IETF 117

San Francisco, July 2023

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
- Experiments since IETF 114
- Goal
- What the LLC wants
- What authors want
- What the RPC wants
- Let's talk



GitHub Experiments since IETF 114

- The documents:
 - RFC 9345 draft-ietf-tls-subcerts – Published
 - RFC 9380 draft-irtf-cfrg-hash-to-curve – AUTH48
 - RFC 9366 draft-ietf-sipcore-multiple reasons - Published
 - RFC NNNN draft-ietf-acme-subdomains – RFC-EDITOR
- Variances from experiment design:
 - Markdown rather than RFCXML
 - RFC 9380 also long (175 pgs) and part of a cluster

https://www.rfc-editor.org/rpc/wiki/doku.php?id=github_auth48_experiments

Goal:

**Find a way forward where
everyone is happy**

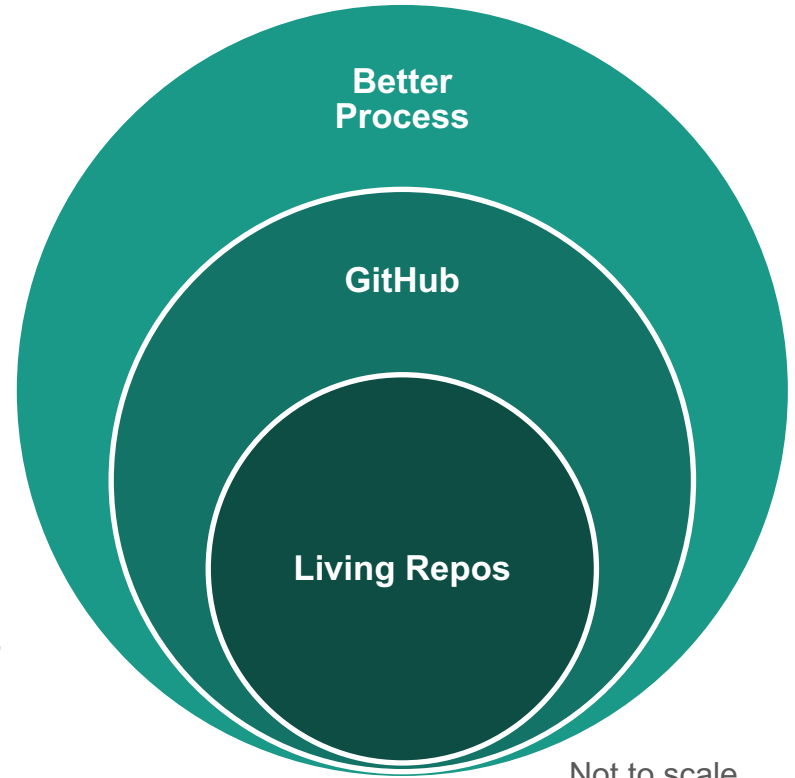


What the LLC wants

- Happy community
- Cheaper, faster, better RPC
 - Custom, controlled environment to maximize output of the RPC staff
 - Minimal number of processes and environments that staff need to learn
 - Ensure high quality standards are maintained
 - Focus of all process changes is to make things better

What authors want

- A better process than email AUTH48 (RPC also wants this)
- To use GitHub
- To maintain a living repo for their document
 - Have all AUTH48 changes so the repo can be used after publication:
 - For tracking issues and questions
 - For the basis of a bis document





What authors want, cont.

- All edits captured in PRs
 - PRs categorized by edit type
 - Authors want to approve every PR individually
- ➔ In email AUTH48, all changes are available for review in a provided diff file. Authors are asked to review multiple edits in one diff file.



RPC wants

- Consistent repo structures and processes
 - Need to use RPC-specific branch management for internal review, multi-editor edits, etc.
 - Use of specific labels to identify the next process step and action holder
 - <https://github.com/rfc-editor/AUTH48-repo-template>



RPC concerns with shifting processes

- The following can create extra work:
 - Increased volume of input from more people than just authors (if working in a WG repo)
 - Atomization of PRs
 - Multi-author approvals for each PR
 - Blocking of edits by rejecting PRs



RPC wants

- Full audit trail
 - Need a permanent, correct, legally sound audit trail to address legal claims.
 - RPC is regularly asked to assert document validity
 - Would expect to archive repo copy to ensure this.



Email audit trail is excellent for this.



RPC wants

- Prevent changes from AUTH48 non-participants to reduce risk
 - Highly problematic if any changes are suggested or made by non-AUTH48 participants
 - Includes text changes, label changes, audit trail changes



Summary of wants

LLC

- Happy community
- Cheaper, faster, better RPC

Authors

- Better process than email
- Use GitHub
- Living repos
- Fine-grained control over edit approval

RPC

- Better process than email
- Consistency
- Traceability

Let's talk



Brainstorming solutions

- Creating an automated build process via GitHub actions to provide outputs and full diff files
- Creating the ability for authors to give final approval for entire document, not just individual PRs
 - Currently still using email approval
 - Capture GitHub approvals in the RPC database
- Stream manager dashboard integration for notifications and approvals



Questions

- Is there a technical way we can satisfy all the wants here?



Wrap up



Thank you!