



Data-driven Reviewer Recommendations

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Research and Analysis of Standard-Setting Processes Proposed Research Group — IETF 116

 \ll sodestream.github.io



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Streamlining Social Decision Making for Improved Internet Standards

- IETF decision-making is a complex, dynamic process, with interaction and communication between people with different interests and priorities
- Much of the data about these decisions is ulletpublicly available
- Can we use this data to identify bottlenecks, and produce tools to *improve* decision-making?



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- 32.7% of standards-track RFCs have had at least one errata reported
- For Security area RFCs, that increases to 39%
- 7.3% of errata are filed within 30 days of RFC publication
- Can the review phase be improved to reduce the volume of errata that are filed?













Participants



Mailing lists





RFCs and Internet-Drafts

Term	Frequency	Inverse document frequency
quic	30	0.7
congestion window	40	0.4
must	80	0.1
the	341	0





Mailing lists

Term	Frequency	Inverse document frequency
congestion window	224	0.5
tcp	516	0.5
review	140	0.2
to	771	0

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Reviewers





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Cosine similarity or Machine learning

Reviewers

ietf-annota
IETF draft review (experimental A/B te
Draft to consider:
draft-ma-moq-relay-for-de
Mode: Default
Results:
Participant
Xingwang Zhou
Some authored drafts: draft-li-ov forwarding-ps; draft-li-tsvwg-ov fwding-ps; draft-li-tsvwg-loops- Andreas Kassler
Some authored drafts: draft-ame framework-mpdccp; draft-amer header-conversion; draft-amen draft-bonaventure-quic-atsss-ov







Streamlining Social Decision Making for Improved Internet Standards

- Tools, datasets, and analysis that can help us to explore and support decision-making in the IETF
- Previous work looking at the social graph of the IETF, and the impact on the deployment of RFCs
- Keen to collaborate on answering • questions about who, how, when, and why decisions are made in the IETF



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