Find Code Related to an Internet-Draft or RFC

draft-eckel-edm-find-code

IETF 116 – EDM meeting
March 29, 2023
Problem statement

• Code related to IETF RFCs and I-Ds takes many forms and exists in many places
• Not easy for people who are not authors to discover the linkage between the two
• Make it easier to identify and find such code
Code requirements

• Potentially of interest and beneficial to people contributing to the definition, implementation, or deployment of an existing or evolving IETF standard
• Publicly available
• Preferably open source
Existing IETF processes and procedures

• Implementation Status section defined in [RFC7942]
  – Allows authors of I-Ds to record status of known implementations
• GitHub Integration and Tooling WG (GIT)
  – Practices for use of GitHub by working groups to manage their work
• Hackathon
  – Collaborate on code related to existing and evolving Internet standards
Proposal

• GitHub repo for draft
  – Setup as recommended by GIT WG (RFC 8874, RFC 8875)
• README
  – Include info about code associated with draft
• Datatracker
  – “Additional Resource” mechanism to associate GitHub org/repo with draft
• Implementation Status
  – Include GitHub org/repo, e.g., link to README
• Errata
  – If draft published as RFC, GitHub org/repo as inline errata
related-implementations

• For individual drafts, authors can edit “Additional resources”
• For working group drafts and RFCs, working group chairs can edit
related-implementations

Additional Resources

github_repo https://github.com/eckelcu/draft-eckel-edm-find-code
(GitHub repository to collaborate on draft)
related_implementations https://datatracker.ietf.org/doc/rfc9311/
(Example implementation in RFC 9311)

Format: 'tag value (Optional description)'. Separate multiple entries with newline. When the value is a URL, use https:// where possible.
Links to standards and code in wikis


SRv6 Data-Plane Visibility

- Champion(s)
  - Thomas Graf (thomas.graf at swisscom.com)
  - Benoit Claise (benoit.claise at huawei.com)
  - Alex Huang-Feng (alex.huang-feng at insa-lyon.fr)
- Draft(s)
- Project info
  - Develop and validate running code. Extend IPFIX export in VPP at FD.io and on Huawei VRP. Establish SRv6 network topology with network telemetry data-collection and data mesh. Validate exported and transformed IPFIX data.
Export of Segment Routing over IPv6 Information in IP Flow Information Export (IPFIX)
draft-ietf-opsawg-ipfix-srv6-srh-06

Status
IESG evaluation record
IESG writeups
Email expansions
History

Versions:
00 01 02 03 04 05 06

draft-tgraf-opsawg-ipfix-srv6-srh
draft-ietf-opsawg-ipfix-srv6-srh

Document Type
Active Internet-Draft (opsawg WG)

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Last updated
2023-01-06 (Latest revision 2023-01-06)

Replaces
draft-tgraf-opsawg-ipfix-srv6-srh

RFC stream
Internet Engineering Task Force (IETF)

Intended
Proposed Standard

RF status

Formats
txt html xml htmlized pdf biblatex

Additional resources
Related Implementations
Mailing list discussion

Stream
WG state
Submitted to IESG for Publication

VPP topologies
This repository have the vpp configurations for the following POCs in VPP:
- draft-tgraf-opsawg-ipfix-srv6-srh
- draft-tgraf-opsawg-ipfix-on-path-telemetry

Dependencies
- VPP fork repository: INSA-unity-vpp
- Tested in ubuntu/focal64 using Vagrantfile
Implementation status

• Practices in proposal followed by RFC 9311
• Positive feedback from Hackathon participants
• Number of drafts/RFCs using
  – 14 at IETF 114
  – 27 at IETF 115
  – 40 at IETF 116 (as of Tuesday, March 28)
• Inability of interested parties to add/edit directly for WG documents is a hurdle
Limitations (main change added to -02 of draft)

• The ability within the Datatracker to associate “related-implementations” with an I-D or RFC is not widely known or used
  – Tools Team made viewing/editing Additional Resources more prominent
  – Functionality promoted in Hackathons
• Ability and procedure to submit errata not well known or used
• Errata that is submitted is not always processed in a timely fashion
  – Experiment with collaborative annotations for RFCs related to DNS underway
Questions?

• Do you agree with the problem statement?
• Do you agree with the proposal?
  – Any alternate proposals or enhancements to existing proposal?
• Next steps?
Thank you!