

MPLS WG Status Update

IETF 119 (Brisbane & Online) – Mar. 2024

WG Chairs:

Tarek Saad

Nic Leymann

Adrian Farrel

Tony Li

Secretary :

Mach Chen

This session is being recorded

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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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)

Administrative

- Blue Sheet
 - Blue sheets will be automatically generated when you login into the Meetecho
- Zulip:
 - <https://zulip.ietf.org/#narrow/stream/119-mpls>
- Minutes Taking:
 - <https://codimd.ietf.org/notes-ietf-119-mpls>
- MPLS Session Agenda at:
 - <https://datatracker.ietf.org/doc/agenda-119-mpls>
- Materials/Slides at:
 - <https://datatracker.ietf.org/meeting/119/session/mpls>
- Datatracker:
 - <http://datatracker.ietf.org/wg/mpls>
- MPLS WG Wiki:
 - <https://wiki.ietf.org/group/mpls>
- MPLS WG Github:
 - <https://github.com/ietf-wg-mpls/drafts>

Agenda Bashing

1. WG Status Update (Agenda Bashing) - 17:30
 - Duration: 15 mins
 - Presenter: WG Chairs
2. IANA Registry for the First Nibble Following a Label Stack - 17:45
 - ID: <https://datatracker.ietf.org/doc/draft-ietf-mpls-1stnibble>
 - Duration: 10 mins
 - Presenter: Greg Mirsky
3. Use Cases for MPLS Network Action Indicators and MPLS Ancillary Data - 17:55
 - ID: <https://datatracker.ietf.org/doc/draft-ietf-mpls-mna-usecases>
 - Duration: 10 mins
 - Presenter: Greg Mirsky
4. Extending ICMP for IP-related Information Validation - 18:05
 - ID: <https://datatracker.ietf.org/doc/draft-liu-6man-icmp-verification>
 - Duration: 10 mins
 - Presenter: Yao Liu

Chairs

- Adrian stepping down after Brisbane
- Tony appointed as new, third chair

WG Status (Errata) (Since IETF118)

- 3 reports: 7841, 7842, 7843
 - RFC 3031: MPLS Architecture
 - All editorial
 - Verified; hold for document update

WG Status (Liaisons) (Since IETF118)

- Liaisons (since last meeting) – from MPLS:
 - None
- Liaisons (since last meeting) – to MPLS:
 - None
- However, liaison from ITU-T SG11 to OPSAWG 2023-10-24
 - <https://datatracker.ietf.org/liaison/1869/>
 - Recommendation ITU-T Q.3962 (ex. Q.joint_tr) "Requirements and Reference Model for optimized traceroute of joint Internet Protocol/Multi-Protocol Label Switching"
 - Passed to MPLS for consideration
 - Liaison response drafted, discussed on mailing list, and sent 2024-03-15

Document Status

(Since IETF118)

- *See the wiki for all pending document actions*
 - <https://wiki.ietf.org/en/group/mpls/doc-status>
- *** New RFCs
 - None
- *** Docs in RFC Ed
 - draft-ietf-mpls-rfc6374-sfl-10 ([MISSREF](#))
 - *Waiting on draft-ietf-mpls-sfl-control*
 - *See discussion later*



Document Status

(Since IETF118)

- *** Docs with the IESG
 - draft-ietf-mpls-sfl-control-04 (*Waiting for AD Go-Ahead. Issues raised from Directorate reviews, see [discussion later](#)*)
 - draft-ietf-mpls-ri-rsvp-frr-16 (*AD Evaluation, previous IESG evaluation has been addressed*)
 - draft-ietf-mpls-mldp-multi-topology-03 (*Publication Requested, RtgDir LC review has nits*)
 - draft-ietf-mpls-sr-epe-oam-12 (*AD Evaluation, RtgDir LC review has nits*)
 - draft-ietf-mpls-spring-inter-domain-oam-12 (*Publication Requested, RtgDir early review addressed*)
 - draft-ietf-mpls-lspping-norao-07 (*IESG Evaluation, IESG telechat: 2024-02-29, one Discuss about process for making RFC 7506 Historic*)
 - draft-ietf-mpls-egress-tlv-for-nil-fec-12 (*WGGLC ended 2024-03-05, publication requested*)



Document Status

(Since IETF118)

- ***** Updated WG Docs**
 - draft-ietf-mpls-mna-requirements-11 (*In WGLC – ends 2024-04-02*)
 - draft-ietf-mpls-p2mp-bfd-07 (*RtgDir LC review done, Ready for WGLC*)
 - draft-ietf-mpls-static-yang-14 (*brought back to life*)
 - **draft-ietf-mpls-1stnibble-04**
 - draft-ietf-mpls-bfd-directed-26 (*WGLC done, Waiting for Shepherd write-up*)
 - draft-ietf-mpls-mldp-yang-11 (*brought back to life*)
 - draft-ietf-mpls-inband-pm-encapsulation-12 (*WGLC requested by authors, existing implementations reported*)
 - **draft-ietf-mpls-mna-usecases-04**
 - draft-ietf-mpls-rfc6374-sr-09 (*WGLC requested, IPR poll started, RtgDir early review addressed*)
 - draft-ietf-mpls-mna-fwk-06 (*Ready for WGLC. Waiting for the requirement document*)
 - draft-ietf-mpls-mpls-msd-yang-05 (*IPR Poll complete, WGLC ends 2024-03-19*)

Document Status

(Since IETF118)

- *** New WG Docs
 - draft-ietf-mpls-spring-lsp-ping-path-sid (***Adopted 2024-03-13***)
- *** Alive WG Docs without Update
 - draft-ietf-mpls-mna-hdr-04
- *** *Recently Expired*
 - None
- *** *Expired Long Ago*
 - A further cleaning up exercise has us down to just 4 expired WG drafts
 - draft-ietf-mpls-ldp-rmr-extensions-03 expired 2020-09-09
 - draft-ietf-mpls-rmr-multicast expired 2020-01-30
 - draft-ietf-mpls-opportunistic-encrypt expired 2017-09-27
 - draft-ietf-mpls-tp-ach-tlv expired 2010-09-06



Document Status

(Since IETF118)

- *** New Individual Docs
 - None



Document Status

(Since IETF118)

- Alive Individual Docs
 - draft-song-mpls-flag-based-opt-03
 - draft-zzhang-mpls-mldp-rsvp-p2mp-srv6-02
 - draft-gandhi-mpls-stamp-pw-05
 - draft-mirsky-mpls-bfd-bootstrap-clarify-05
 - draft-han-mpls-sdi-sr-05
 - draft-jags-mpls-ps-mna-hdr-01
 - draft-kompella-mpls-nffrr-04
 - draft-cx-mpls-mna-inband-pm-03
 - draft-sx-mpls-detnet-bounded-latency-01
 - draft-song-mpls-extension-header-13
 - draft-mb-mpls-ioam-dex-05
 - draft-mirsky-mpls-stamp-06
 - draft-xiao-mpls-lsp-ping-ioam-conf-state-02
 - draft-gandhi-mpls-ioam-11



Progressing the SFL Drafts (1/2)

- RFC 8957 “Synonymous Flow Label Framework” published 2021
- draft-ietf-mpls-rfc6374-sfl
 - On RFC Editor Queue
 - Blocked by reference to draft-ietf-mpls-sfl-control
 - Reference is for definition of “SFL Batch”
 - Solution is:
 - OLD
 - SFL Batch The SFL batch that this SFL was allocated as part of see [I-D.bryant-mpls-sfl-control]
 - NEW
 - SFL Batch An identifier for a collection of SFLs grouped together for management and control purposes.
 - END
 - AD has approved the change
 - Currently with RFC Editor to unblock the document and proceed

Progressing the SFL Drafts (2/2)

- draft-ietf-mpls-sfl-control
 - Went through WG last call in 2021
 - No objections, not much support
 - Went through IETF last call November 2023
 - Several Directorate reviews raised issues
 - Problem found by Stewart while addressing Directorate reviews
 - MP2P sender crashes and restarts
 - Possible approaches
 - Reduce scope to exclude MP2P (and MP2MP)
 - Return to WG for a fix
 - But, poll of WG to find out if anyone cares about this draft
 - No one reports implementation or plans for implementation
 - Current authors not enthusiastic
 - Formal poll on mailing list to abandon this draft (***ends today!! – 2024-03-19***)