

IETF 108 – Virtual Online Meeting

July 2020



MPLS Working Group

Chairs

Loa Andersson
Tarek Saad
Nicolai Leymann

Secretary

Mach Chen

MPLS Session:

Friday July 31, 13:00 - 13:50 UTC

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
- Jabber:
 - xmpp:[mpls@jabber.ietf.org?join](xmpp:mpls@jabber.ietf.org?join)
- Minutes Taking:
 - <https://codimd.ietf.org/notes-ietf-108-mpls>
- Online Agenda at:
 - <https://tools.ietf.org/wg/mpls/agenda-108-mpls-02>
- Online Slides at:
 - <https://datatracker.ietf.org/meeting/108/session/mpls>
- Data tracker:
 - <http://datatracker.ietf.org/wg/mpls>

Agenda Bashing – Admin

- **1. Administrivia & WG Status**
 - Presenter: Chairs (20 minutes)
- **2. MPLS Data Plane Encapsulation for In-situ OAM Data**
 - Presenter: Rakesh Gandhi (10 minutes)
 - Draft: <https://datatracker.ietf.org/doc/draft-gandhi-mpls-ioam-sr/>
- **3. Label Distribution Using ARP**
 - Presenter: Reji Thomas (10 minutes)
 - Draft: <https://datatracker.ietf.org/doc/draft-kompella-mpls-larp/>
- **4. MPLS-based Service Function Path (SFP) Consistency Verification**
 - Presenter: Yao Liu (10 minutes)
 - Draft: <https://datatracker.ietf.org/doc/draft-lm-mpls-sfc-path-verification/>

Overflow Requests

- **1. Enhanced Performance and Liveness Monitoring in Segment Routing Networks**
 - Presenter: Rakesh Gandhi (5 minutes)
 - Draft: <https://tools.ietf.org/html/draft-gandhi-spring-sr-enhanced-plm>
- **2. Performance Measurement for Segment Routing Networks with MPLS Data Plane**
 - Presenter: Rakesh Gandhi (5 minutes)
 - Draft: <http://tools.ietf.org/html/draft-gandhi-mpls-rfc6374-sr>
- **3. The Use of Path Segment in SR-MPLS and MPLS Interworking**
 - Presenter: Quan Xiong (10 minutes)
 - Draft: <http://tools.ietf.org/html/draft-xiong-mpls-path-segment-sr-mpls-interworking/>
- **4. Signal Degrade Indication Used in Segment Routing over MPLS Network**
 - Presenter: Liuyan Han (10 minutes)
 - Draft: <https://tools.ietf.org/html/draft-han-mpls-sdi-sr-00>

**Above overflow drafts will be discussed in a follow-up interim meeting.
We are accepting requests for agenda slots for the interim meeting(s)**

WG Status (Errata)

- [Technical Errata Reported] RFC4090 (6203)
- Section 6 says:
 - If the **"bandwidth protection guaranteed" flag is set**, the PLR SHOULD try to provide a bandwidth guarantee; if this is not feasible, the PLR SHOULD then try to provide a backup without a guarantee of the full bandwidth.
- It should say:
 - If the **"Bandwidth Protection Desired" flag is set in SESSION_ATTRIBUTE**, the PLR SHOULD try to provide a bandwidth guarantee; if this is not feasible, the PLR SHOULD then try to provide a backup without a guarantee of the full bandwidth."

WG Status (Errata)

- [Technical Errata Reported] RFC3031 (6240)
- Section 3.10 defines NHLFE, and it sounds from the definition that this piece of information is used by an MPLS router only when packet is already labeled. Now, when section 3.12 (FTN) defines the relationship between FEC and NHLFE, the definition of NHLFE in section 3.10 does not align with FTN definition.
- Suggest adding below to the list of operations to perform on a packet defined in an NHLFE:
 - d) push a new label on an unlabeled packet*

WG Status (Liaisons)

- **Liaisons** (since last meeting) – from MPLS:
 - None
- **Liaisons** (since last meeting) – to MPLS:
 - None

Document Status

On the agenda 

Since IETF107

*** New RFCs

- RFC 8796 (RSVP-TE Summary Fast Reroute Extensions for Label Switched Path (LSP) Tunnels)

*** Docs in RFC Ed

- draft-ietf-mpls-ldp-yang (RFC Ed Queue)

*** Docs in IESG

- draft-ietf-mpls-ri-rsvp-frr - IESG Evaluation::Revised I-D Needed
- draft-ietf-mpls-rmr - Expert Review::Revised I-D Needed
 - - Been waiting for new ID for more than 250 days; also blocking the other rmr drafts, both AD and shepherd have pinged the authors repeatedly
- draft-ietf-mpls-sfl-framework - Waiting for Writeup
- draft-ietf-mpls-base-yang - Publication Requested
- draft-ietf-mpls-spl-terminology - Publication Requested –comments received.

*** New WG Docs

- draft-ietf-mpls-sr-epe-oam
- draft-ietf-mpls-rfc6374-sr

Document Status

On the agenda



Since IETF107

*** *Updated WG Docs*

- draft-ietf-mpls-bfd-directed-14
- draft-ietf-mpls-lsp-ping-ospfv3-codepoint-02
- draft-ietf-mpls-mldp-yang-07
- draft-ietf-mpls-rfc6374-sfl-07

*** *Recently Expired*

- draft-ietf-mpls-rmr-multicast-00
This is an effect of the base rmr draft not moving

Document Status

Since IETF107



On the agenda

*** New Individual Docs

- draft-han-mpls-sdi-sr
- draft-jiang-mpls-entropy-block
- [draft-lm-mpls-sfc-path-verification](#)
- draft-nainar-mpls-lsp-ping-yang (replace draft-zheng-mpls-lsp-ping-yang-cfg-10)
- draft-ninan-mpls-spring-inter-domain-oam

Document Status

Since IETF 107



On the agenda

- **Updated Individual Docs**

- [draft-gandhi-mpls-rfc6374-sr](#)

- WGAP is complete. This document has been adopted as a WG document, and name change will be posted as soon

- [draft-kompella-mpls-larp](#)

- [draft-xiong-mpls-path-segment-sr-mpls-interworking](#)

- [draft-chandra-mpls-rsvp-shared-labels-np](#)

- [draft-bryant-mpls-sfl-control](#)

- Updated after MPLS-RT review; WGAP underway after IETF 108

Document Status

Since IETF 107



On the agenda

- **Alive Individual Docs without Update**

- draft-nainar-mpls-spring-lsp-ping-sr-generic-sid
 - WG adoption request received. MPLS-RT review will be triggered soon
- draft-chandra-mpls-rsvp-shared-labels-np
- draft-cheng-mpls-inband-pm-encapsulation
 - WG adoption request received, MPLS-RT review started. WGAP may follow accordingly
- draft-gao-mpls-teas-rsvpte-state-update
- draft-kompella-mpls-nffrr
- draft-yang-mpls-ps-sdi-sr
- [draft-gandhi-mpls-ioam-sr](#)
- draft-mirsky-mpls-p2mp-bfd

Progress Report Update(s)

- draft-ietf-mpls-base-yang
 - Current status: Publication Requested
 - Next steps: waiting for IESG review
- draft-ietf-mpls-static-yang-11
 - Current status: yangdoctors review completed and all comments resolved.
 - Next steps: WGLC (to proceed after draft-ietf-mpls-base-yang)
- draft-ietf-mpls-mldp-yang-07
 - Current status:
 - 1st YANGDoctor review in 2017 – likely to request new review when ready
 - YANG compile errors reported
 - Next steps:
 - To request new review when ready

Progress Report Update(s)

- **draft-ietf-mpls-bfd-directed-14**
 - Current status: Stalled
 - Received RTGDIR comments (Carlos Pignataro)
 - Received request from authors for WGLC (no changes to existing document)
 - We have tried WGLC 3 times, and do not really see why it would succeed this time
 - Next steps:
 - WG chairs open for suggestions
- **draft-ietf-mpls-rmr-12**
 - Current status:
 - Expert Review::Revised I-D Needed
 - Waiting for authors to update the draft
 - Next steps:
 - AD to follow-up with authors
- **draft-ietf-mpls-ldp-rmr-extensions-03**
 - Current status: Waiting for draft-ietf-mpls-rmr
 - Next steps: When the rmr draft moves, progress to WGLC

Progress Report Update(s)

- draft-ietf-mpls-lsp-ping-ospfv3-codepoint-02
 - Current status: Updated to version -02
 - Next steps:
 - Invite more reviews from WG
 - WGLC after IETF108
- draft-ietf-mpls-sr-epe-oam-00
 - Current status: Just adopted, invite more reviews
 - Next steps: WGLC ?

Progress Report Update(s)

- draft-ietf-mpls-lsp-ping-registries-update-02
 - Current status: Being updated based Shepherd comments
 - Next steps: Prepare for WGLC. This includes a language review.
- draft-ietf-mpls-sfl-framework-09
 - Current status: Publication Requested
 - Next steps: Waiting for AD Writeup
- draft-ietf-mpls-rfc6374-sfl-07
 - Current status: Ready for WGLC
 - Next steps:
 - WGLC after <draft-ietf-mpls-sfl-framework> moves