

MPLS WG Status Update

IETF-118 (Prague & Online) – Nov. 2023

WG Chairs:

Tarek Saad

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Secretary :

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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/118-mpls>
- **Minutes Taking:**
 - <https://codimd.ietf.org/notes-ietf-118-mpls>
- **MPLS Session Agenda at:**
 - <https://datatracker.ietf.org/doc/agenda-118-mpls>
- **Materials/Slides at:**
 - <https://datatracker.ietf.org/meeting/118/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 (1/2)

- 1. WG Status Update (Agenda Bashing) - 13:00**
 - Duration: 10 mins
 - Presenter: WG Chairs
- 2. Label Switched Path (LSP) Ping for Segment Routing (SR) Path Segment Identifiers (SIDs) with MPLS Data Planes - 13:20**
 - ID: <https://datatracker.ietf.org/doc/draft-xp-mpls-spring-lsp-ping-path-sid>
 - Duration: 10 mins
 - Presenter: Xiao Min
- 3. Encapsulation of Simple TWAMP (STAMP) for Pseudowires in MPLS Networks - 13:30**
 - ID: <https://datatracker.ietf.org/doc/draft-gandhi-mpls-stamp-pw>
 - Duration: 10 mins
 - Presenter: Rakesh Gandhi
- 4. Use Cases for MPLS Network Action Indicators and MPLS Ancillary - 13:40**
 - ID: <https://datatracker.ietf.org/doc/draft-ietf-mpls-mna-usecase>
 - Duration: 10 mins
 - Presenter: Greg Mirsky

Agenda Bashing (2/2)

5. MPLS Encapsulation for Deterministic Latency Network Action - 13:50

- ID: <https://datatracker.ietf.org/doc/draft-sx-mpls-detnet-bounded-latency/>
- Duration: 10 mins
- Presenter: Xueyan Song

6. A YANG Data Model for MPLS-TE Topology - 14:00

- ID: <https://datatracker.ietf.org/doc/draft-busizheng-teas-yang-te-mpls-topology-06>
- Duration: 5 mins
- Presenter: Italo Busi

7. Private Line Emulation over Packet Switched Networks - 14:10

- ID: <https://datatracker.ietf.org/doc/html/draft-ietf-pals-ple-01/>
- Duration: 10mins
- Presenter: Christian Schmutzer

WG Status (Errata, 1/2)

(Since IETF-117)

Technical Errata 7583, reported by Igor Malyushkin : <https://www.rfc-editor.org/errata/eid7583>

Reported

RFC4561, Section 3

✓ Original Text

[RSVP-TE] defines the IPv4 and IPv6 RRO sub-objects. Moreover, two additional flags are defined in [FAST-REROUTE]: the **"Local Protection Available"** and **"Local Protection in Use"** bits.

✓ Corrected Text

[RSVP-TE] defines the IPv4 and IPv6 RRO sub-objects. Moreover, two additional flags are defined in [FAST-REROUTE]: the **"Bandwidth protection"** and **"Node protection"** bits.

Notes □ The "Local Protection Available" and "Local Protection in Use" are defined in RFC3209 (Sections 4.4.1.1, 4.4.1.2), not RFC4090. The latter defines "Bandwidth protection" and "Node protection" in Section 4.4.

WG Status (Errata, 2/2)

(Since IETF-117)

Editorial Errata 7639, reported by Greg Mirsky : <https://www.rfc-editor.org/errata/eid7639>

Reported Accepted

RFC8029, Section 4.5

✓ Original Text

If the Reply Mode in the echo request is "Reply via **an IPv4 UDP** packet with Router Alert", then the IP header MUST contain the Router Alert IP Option of value 0x0 [RFC2113] for IPv4 or 69 [RFC7506] for IPv6.

✓ Corrected Text

If the Reply Mode in the echo request is "Reply via **an IPv4/IPv6 UDP** packet with Router Alert", then the IP header MUST contain the Router Alert IP Option of value 0x0 [RFC2113] for IPv4 or 69 [RFC7506] for IPv6.

Notes The description of the Reply Mode recorded in the IANA "Reply Modes" sub-registry of the "Multiprotocol Label Switching (MPLS) Label Switched Paths (LSPs) Ping Parameters" registry is "Reply via an IPv4/IPv6 UDP packet with Router Alert".

WG Status (Liaisons) (Since IETF-117)

- **Liaisons** (since last meeting) – **from MPLS:**
 - None
- **Liaisons** (since last meeting) – **to MPLS:**
 - None
- **Liaisons** (since last meeting) – **relevant to MPLS:**
 - <https://datatracker.ietf.org/liaison/1869/>
 - Consent of draft Recommendation ITU-T Q.3962 (ex. Q.joint_tr) “Requirements and Reference Model for optimized traceroute of joint Internet Protocol/Multi-Protocol Label Switching”
 - From ITU-T Study Group 11 to IETF via OPSAWG dated 2023-10-24
 - For Information
 - We could suggest existing solutions to these requirements

Document Status

(Since IETF-117)

- ***** New RFCs**
 - None
- ***** Docs in RFC Ed**
 - draft-ietf-mpls-rfc6374-sfl-10 (MISSREF) *Waiting on I-D.draft-ietf-mpls-sfl-control*
- ***** Docs in IESG**
 - draft-ietf-mpls-sfl-control-03 (*AD Evaluation:: Revised I-D Needed*)
 - draft-ietf-mpls-ri-rsvp-frr-15 (*AD is watching*, all comments that were raised during the IESG review were addressed, no open issues)
 - draft-ietf-mpls-mldp-multi-topology-03 (*Publication Requested*)
- ***** New WG Docs**
 - None



Document Status (Since IETF-117)

- ***** Updated WG Docs**

- draft-ietf-mpls-mpls-msd-yang-02
 - *Author report: Stable, ready for YANG doctor review and WGLC*
- draft-ietf-mpls-lspping-norao-05
 - *Status: Shepherd review done. Pending update*
- draft-ietf-mpls-mna-requirements-07
 - *Status: Pending update after comments during WGLC. Will then initiate some list discussions before 2nd WGLC*
- draft-ietf-mpls-mna-usecases-03
- draft-ietf-mpls-mna-fwk-05
- draft-ietf-mpls-mna-hdr-04

Document Status (Since IETF-117)

- ***** Updated WG Docs (continued)**
 - draft-ietf-mpls-msd-yang
 - *Status: Preparing for YANG Doctor review*
 - draft-ietf-mpls-sr-epe-oam-11
 - *Status: WGLC ended, waiting for Write-Up*
 - draft-ietf-mpls-rfc6374-sr-08
 - *Status: Continuing to address RTGDir review*



Document Status (Since IETF-117)

- ***** Alive WG Docs without Update**

- draft-ietf-mpls-1stnibble-02
- draft-ietf-mpls-p2mp-bfd
- draft-ietf-mpls-bfd-directed-24
 - *Status: WGLC complete, document updated, waiting for Shepherd Write-Up*
- draft-ietf-mpls-egress-tlv-for-nil-fec-07
 - *Status: WGLC requested, RTGDir review done (not ready), soliciting 2nd RTGDir review*
- draft-ietf-mpls-p2mp-bfd-05
 - *Author report: Stable, ready for WG LC*
- draft-ietf-mpls-inband-pm-encapsulation-06
 - *Author report: WGLC requested*
- draft-ietf-mpls-spring-inter-domain-oam-06
 - *Status: WGLC requested, Rtgdir early review finished*



Document Status (Since IETF-117)

- ***** WG Dcs *Recently Expired***
 - None



Document Status

(Since IETF-117)

- **Alive Individual Docs (2-1)**
 - draft-cx-mpls-mna-inband-pm-03
 - draft-gandhi-mpls-ioam-11
 - draft-gandhi-mpls-stamp-pw-04
 - draft-gao-mpls-teas-rsvp-te-state-update-06
 - draft-jags-mpls-ps-mna-hdr-01
 - draft-kompella-mpls-nffrr-04
 - draft-li-mpls-mna-entropy-01
 - draft-li-mpls-mna-nrp-selector-00
 - draft-mb-mpls-ioam-dex-05
 - draft-mirsky-mpls-bfd-bootstrap-clarify-04
 - draft-mirsky-mpls-stamp-06
 - draft-nainar-mpls-lsp-ping-yang-05
 - draft-song-mpls-extension-header-13

Document Status

(Since IETF-117)

- **Alive Individual Docs (2-2)**
 - draft-song-mpls-flag-based-opt-02
 - draft-song-mpls-sr-eh-01
 - draft-sx-mpls-detnet-bounded-latency-01
 - draft-xiao-mpls-lsp-ping-ioam-conf-state-02
 - draft-xp-mpls-spring-lsp-ping-path-sid-07