

# MPLS WG Status Update

IETF 120 (Vancouver & Online) – Jul. 2024

## **WG Chairs:**

Tarek Saad

Nic Leymann

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/120-mpls>
- **Minutes Taking:**
  - <https://codimd.ietf.org/notes-ietf-120-mpls>
- **MPLS Session Agenda at:**
  - <https://datatracker.ietf.org/doc/agenda-120-mpls>
- **Materials/Slides at:**
  - <https://datatracker.ietf.org/meeting/120/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) - 17:30

- Duration: 5 mins
- Presenter: WG Chairs

## 2. MPLS Network Action (MNA) Sub-Stack Solution - 17:35

- ID: <https://datatracker.ietf.org/doc/draft-ietf-mpls-mna-hdr-07>
- Duration: 10 mins
- Presenter: Jaganbabu Rajamanickam

## 3. Post-Stack MPLS Network Action (MNA) Solution - 17:45

- ID: <https://datatracker.ietf.org/doc/draft-jags-mpls-ps-mna-hdr-03>
- Duration: 15 mins
- Presenter: Jaganbabu Rajamanickam

## 4. Supporting In-Situ Operations, Administration, and Maintenance Direct Export Using MPLS Network Actions - 18:00

- ID: <https://datatracker.ietf.org/doc/draft-mb-mpls-ioam-dex-08>
- Duration: 10 mins
- Presenter: Greg Mirsky

# Agenda Bashing(2/2)

## 5. **MPLS Network Actions for Transporting In Situ Operations, Administration, and Maintenance (IOAM) Data Fields and Direct Exporting - 18:10**

- ID: <https://datatracker.ietf.org/doc/draft-gandhi-mpls-mna-ioam-dex-01>
- Duration: 10 mins
- Presenter: Rakesh Gandhi

## 6. **MPLS Network Action for Deterministic Latency - 18:10**

- ID: <https://datatracker.ietf.org/doc/draft-sxg-mpls-mna-deterministic-latency-00>
- Duration: 10 mins
- Presenter: Xueyan Song

# WG Status (Errata, 1/2) (Since IETF119)

[Editorial Errata Reported] 7892, reported by: Loa Andersson  
RFC8029, The title:

- ✓ Original Text  
Detecting Multiprotocol Label Switched (MPLS) Data-Plane Failures.
- ✓ Corrected Text  
Detecting Multiprotocol Label Switched Data-Plane Failures, or  
Detecting Multiprotocol Label Switching (MPLS) Data-Plane Failures.

**Notes:** MPLS expands to "Multiprotocol Label Switching", not to "Multiprotocol Label Switched".

# WG Status (Errata, 2/2) (Since IETF119)

[Technical Errata Reported] 7944, reported by: Erik Kline  
RFC8960, section: 2.5

✓ Original Text

```
grouping nhlfe-single-contents {  
  description  
    "A grouping that describes a single Next Hop Label Forwarding  
    Entry (NHLFE) and its associated parameters as described in  
    the MPLS architecture. This grouping is specific to the case  
    when a single next hop is associated with the route.";  
  uses rt-types:mpls-label-stack;  
}
```

**Notes:**

Section 2.2 states that the NHLFE contains the packet's next hop and "[t]he operation to perform on the packet's label stack."  
Section 2.5 defines an mpls-operations-type typedef, but then it is never referenced by anything else in the YANG module.  
I *think* it should be associated with nhlfe-single-contents, alongside the rt-types:mpls-label-stack used there. My YANG skills are too poor to craft any plausibly correct syntax, though.

✓ Corrected Text

```
grouping nhlfe-single-contents {  
  description  
    "A grouping that describes a single Next Hop Label Forwarding  
    Entry (NHLFE) and its associated parameters as described in  
    the MPLS architecture. This grouping is specific to the case  
    when a single next hop is associated with the route.";  
  <some reference to an mpls-operations-type>  
  uses rt-types:mpls-label-stack;  
}
```

# WG Status (Liaisons) (Since IETF119)

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



# Document Status

## (Since IETF119)

- **\*\*\* New RFCs**
  - RFC 9570 (Deprecating the Use of Router Alert in LSP Ping)
  - RFC 9571 (Extension of RFC 6374-Based Performance Measurement Using Synonymous Flow Labels)
- **\*\*\* Docs in RFC Ed**
  - draft-ietf-mpls-egress-tlv-for-nil-fec-10
  - draft-ietf-mpls-mna-requirements-16
  - draft-ietf-mpls-mldp-multi-topology-09
  - draft-ietf-mpls-bfd-directed-31
- **\*\*\* New WG Docs**
  - draft-ietf-mpls-spring-lsp-ping-path-sid



# Document Status

## (Since IETF119)

- **\*\*\* Docs in IESG**

- draft-ietf-mpls-msd-yang-12 (***IESG Evaluation***)
- draft-ietf-mpls-sfl-control-04 (***One issue raised from SEC ART review, need a resolution***)
- draft-ietf-mpls-ri-rsvp-frr-21 (***IESG Evaluation::Revised I-D Needed***)
- draft-ietf-mpls-spring-inter-domain-oam-20 (***IESG Evaluation::AD Followup***)
- draft-ietf-mpls-rfc6374-sr-11 (***Publication Requested***)
- draft-ietf-mpls-inband-pm-encapsulation-13 (***Publication Requested***)
- draft-ietf-mpls-sr-epe-oam-17 (***IESG Evaluation***)
- draft-ietf-mpls-mna-usecases-10 (***Publication Requested***)



# Document Status

## (Since IETF119)

- **\*\*\* Updated WG Docs**
  - draft-ietf-mpls-mna-fwk-09
  - draft-ietf-mpls-lstnibble-08
  - [draft-ietf-mpls-mna-hdr-07](#)



# Document Status

## (Since IETF119)

- **\*\*\* Alive WG Docs without Update**
  - draft-ietf-mpls-p2mp-bfd-07 (*Rtmdir LC review done, WG LC will start soon*)
  - draft-ietf-mpls-mldp-yang-11 (*Authors has requested publication, in YANG Doctor review*)
  - draft-ietf-mpls-static-yang-14 (*In YANG Doctor review*)
- **\*\*\* Recently Expired**
  - None



# Document Status

## (Since IETF119)

- **\*\*\* New Individual Docs**
  - [draft-lin-mpls-ldp-holdtimer-00](#)
  - [draft-sxg-mpls-mna-deterministic-latency-00](#)
  - [draft-andersson-mpls-rfc8029-lsp-ping-naming-00](#)
  - [draft-gandhi-mpls-mna-ioam-dex-01](#)



# Document Status

## (Since IETF119)

- **Alive Individual Docs**

- [draft-mb-mpls-ioam-dex-05](#)
- [draft-jags-mpls-ps-mna-hdr-01](#)
- [draft-li-mpls-mna-entropy-02](#)
- [draft-li-mpls-mna-nrp-selector-01](#)
- [draft-cx-mpls-mna-inband-pm-04](#)
- [draft-gandhi-mpls-stamp-pw-06](#)
- [draft-mirsky-mpls-stamp-07](#)
- [draft-xiao-mpls-lsp-ping-ioam-conf-state-03](#)
- [draft-song-mpls-flag-based-opt-03](#)
- [draft-zzhang-mpls-mldp-rsvp-p2mp-srv6-02](#)
- [draft-mirsky-mpls-bfd-bootstrap-clarify-05](#)



# draft-andersson-mpls-rfc8029-lsp-ping-naming

- **RFC 8029 does not name the protocol it specifies (for real!!!)**
- **RFCs and IDs citing the protocol specified in RFC 8029 use a variety of names and pseudonyms**
- **The authors propose clarifying and specifying a name for the protocol, the same name which is used in the IANA registries:**
  - Full name: **“MPLS Label Switched Path (LSP) Ping and Traceroute”**
  - Short name: **“MPLS LSP Ping”**
- **The authors do not believe we need to update “older documents”, but that the new name should be used for new / updated ones.**
  - Thoughts?
- **Please comment on the list**
  - **The authors want to request quick adoption → quick fix**