

IETF 104 – Prague  
March 2019



# MPLS Working Group

## **MPLS Sessions:**

**Wednesday March 27, 11:20-13:20 Morning session II**

# 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.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

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)



**I E T F**

# Administrative

- Audio Streaming/Recording
  - Please speak only using the microphones
  - Please state your name before speaking
- Data tracker: <http://datatracker.ietf.org/wg/mpls/>
- Minute takers & Etherpad
  - <http://tools.ietf.org/wg/mpls/minutes>
- Meet Echo:
  - <http://ietf101.conf.meetecho.com/>
- Online Agenda and Slides at:
  - <https://datatracker.ietf.org/meeting/104/materials/>

# Agenda Bashing – Admin

- Agenda (<https://datatracker.ietf.org/meeting/104/agenda/mpls>):

slot length or placement are subject to change

MPLS session - Wednesday, March 27, 2019 - 11:20-13:20 Morning session II

No.	I-D	Version	Presenter
1	Agenda bashing, WG status reports	-	Chairs
2	<a href="#">draft-nslag-mpls-deprecate-md5</a>	4	Andrew Malis
3	<a href="#">draft-andersson-mpls-spl-terminology</a>	1	TBD
4	<a href="#">draft-hu-mpls-sr-inter-domain-use-cases</a>	1	Quan
5	<a href="#">draft-zheng-mpls-lsp-ping-yang-cfg</a>	10	Greg MIRSKY
6	<a href="#">draft-nainar-mpls-rfc8287-len-clarification</a>	0	Nagendra Kumar
7	<a href="#">draft-nainar-mpls-spring-lsp-ping-sids</a>	-	Carlos Pignataro
8	<a href="#">draft-iqbal-spring-mpls-ping-algo</a>	1	Carlos Pignataro
9	<a href="#">draft-chen-mpls-cqf-lsp-dp</a>	0	Zhe Chen
10	<a href="#">draft-cheng-mpls-inband-pm-encapsulation</a>	0	Xiao Min
11	draft-kumar-mpls-mint	0	Jai Kumar

# Agenda Bashing - Admin

- Fill in the [Blue Sheets](#), and it pass on.
- Return to WG Chairs

# WG Status (Errata)

## Status: **Reported** (3)

RFC Number (Errata ID)	Section	Type	Source of RFC	Submitted By	Date Submitted
RFC3031 ( <a href="#">5643</a> )	Terminology	Technical	mpls (rtg)	Mark Smith	2019-02-25
RFC8223 ( <a href="#">5584</a> )	2.3.2	Editorial	mpls (rtg)	Jayant Bhardwaj	2018-12-27
RFC5036 ( <a href="#">5674</a> )	A.2.8	Editorial	mpls (rtg)	Ramakrishna Rao DTV	2019-03-25

### **Errata ID: [5643](#):**

Reported By: Mark Smith  
Date Reported: 2019-02-25

Section Terminology says:

<missing> It should say:

label edge router - a router capable of accepting an unlabelled packet, and through MPLS processing, may MPLS encapsulate the packet by adding a label stack.

### **Errata ID: [5584](#):**

Reported By: Jayant Bhardwaj  
Date Reported: 2018-12-27

Section 2.3.2 says:

1. The S-bit of the TAC is set to 1 or 0 to advertise or withdraw it.

It should say:

1. The E-bit of the TAC is set to 1 or 0 to advertise or withdraw it.

# WG Status (Errata)

## Status: Reported

RFC Number (Errata ID)	Section	Type	Source of RFC	Submitted By	Date Submitted
RFC5036 (5674)	A.2.8	Editorial	mpls (rtg)	Ramakrishna Rao DTV	2019-03-25

Errata ID: 5674  
Status: Reported  
Type: Editorial

Reported By: Ramakrishna Rao DTV  
Date Reported: 2019-03-25

Section A.2.8 says:

- FEC. The FEC for which a label request is to be sent. It should say:
- FEC. The FEC for which a label mapping is to be sent.

Notes:

Prepare\_Label\_Mapping\_Attributes is used for sending label mapping message and NOT label request message.

# WG Status (Errata)

Status: **Held for Document Update (1)**

RFC5036 ( <a href="#">5587</a> )	2.6.2.2	Editorial	mpls (rtg)	Ramakrishna Rao DTV	2018-12-28
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Errata ID: [5587](#)

Reported By: Ramakrishna Rao DTV

Date Reported: 2018-12-28

Held for Document Update by: Deborah Brungard

Date Held: 2019-01-08

Notes:

s/mappings/mapping/



# WG Status (Errata)

## Status: **Rejected** (1)

RFC Number (Errata ID)	Section	Type	Source of RFC	Submitted By	Date Submitted
<a href="#">RFC5036 (5597)</a>	2.5.3	Editorial	mpls (rtg)	Ramakrishna Rao DTV	2019-01-10

Errata ID: [5597](#)

**Status: Rejected**

**Type: Editorial**

Reported By: Ramakrishna Rao DTV

Date Reported: 2019-01-10

Rejected by: Deborah Brungard

Date Rejected: 2019-01-10

--VERIFIER NOTES--

This change is a technical change as it changes from no cap to a cap of 2 minutes. This request needs to go via the consensus process (e.g. RFC).

# WG Status (Liaisons)

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

- **Liaisons** (since last meeting) – **to MPLS**:

Date	From	To	Deadline	Title
2019-01-11	ITU-T-SG-15	ccamp, mpls, pals, pce, teas	2019-06-01 <b>Action Needed</b>	LS on OTNT Standardization Work Plan CCAMP/TEAS/PCE/PALS are preparing a response
2018-11-06	ITU-T-SG-15	mpls	2019-06-18 <b>Action Needed</b>	Request for clarification concerning MPLS-TP shared ring protection
2018-11-06	ITU-T-SG-15	mpls		Intent to initiate the approval process of MPLS-TP Recommendations

# Document Status

Since IETF103

## \*\*\* New RFCs

- *None*

## \*\*\* Docs in RFC Ed

- *draft-ietf-mpls-spring-entropy-label - RFC Ed Queue : [MISSREF](#)*
- *draft-ietf-mpls-rsvp-shared-labels - RFC Ed Queue : RFC-EDITOR*
- *draft-ietf-mpls-sfc - RFC Ed Queue : EDIT*

## \*\*\* Docs in IESG

- *draft-ietf-mpls-egress-protection-framework - Submitted to IESG for Publication*
- *draft-ietf-mpls-lsp-ping-lag-multipath - IESG Evaluation::Revised I-D Needed*
- *draft-ietf-mpls-ri-rsvp-frr -- Submitted to IESG for Publication: Proposed Standard*
- *draft-ietf-mpls-sfc-encapsulation - Submitted to IESG for Publication: Informational*
- *draft-ietf-mpls-sr-over-ip - IESG Evaluation::Revised I-D Needed*

## \*\*\* New WG Docs

- [draft-ietf-mpls-rfc8287-len-clarification-00](#)

# Document Status

Since IETF103

## \*\*\* Updated WG Docs

- draft-ietf-mpls-rmr – *waiting for WG Chair GO-AHEAD*
- draft-ietf-mpls-base-yang
- draft-ietf-mpls-bfd-directed
- draft-ietf-mpls-ldp-yang
- draft-ietf-mpls-mldp-mib
- draft-ietf-mpls-mldp-yang
- draft-ietf-mpls-sr-over-ip
- draft-ietf-mpls-static-yang

## \*\*\* Existing WG Docs

- draft-ietf-mpls-ldp-rmr-extensions-01 – *waiting for draft-ietf-mpls-rmr to proceed*
- draft-ietf-mpls-rfc6374-sfl
- draft-ietf-mpls-sfl-framework

# Document Status

Since IETF103

## \*\*\* New Individual Docs

- draft-andersson-mpls-eh-architecture-00
- draft-andersson-mpls-eh-label-stack-operations-00
- **draft-chen-mpls-cqf-lsp-dp-00**
- **draft-cheng-mpls-inband-pm-encapsulation-00**
- **draft-kumar-mpls-mint-00**
- **draft-nainar-mpls-spring-lsp-ping-sids-00**
- draft-song-mpls-eh-indicator-00
- **draft-hu-mpls-sr-inter-domain-use-cases-01**
- **draft-andersson-mpls-spl-terminology-01**
- draft-arora-mpls-spring-ttl-procedures-srte-paths

# Document Status

Since IETF103

## \*\*\* Updated Individual Docs

- draft-esale-mpls-ldp-rmr-extensions
- draft-mirsky-mpls-oam-mpls-sr-ip
- draft-mirsky-mpls-p2mp-bfd
- draft-nslag-mpls-deprecate-md5
- draft-song-mpls-extension-header
- draft-xu-mpls-payload-protocol-identifier
- draft-xu-mpls-sr-over-ip
- **draft-nainar-mpls-spring-lsp-ping-sids**

# Document Status

Since IETF103

## \*\*\* Existing Individual Docs

- [draft-zheng-mpls-lsp-ping-yang-cfg](#)
- [draft-chandra-mpls-rsvp-shared-labels-np](#)
- [draft-zzhang-mpls-rmr-multicast](#)
- [draft-zzhang-mpls-rmr-rsvp-p2mp](#)

# Progress Report Update(s)

I-D: <draft-ietf-mpls-base-yang>

I-D: <draft-ietf-mpls-static-yang>

- Current status: (draft-ietf-mpls-base-yang-10) and (draft-ietf-mpls-static-yang-09)
  - *Received further comments from Tom Petch*
  - *Have addressed all review comments in the latest revision*
- *Next steps:*
  - *Document is stable and asking for YANGDR review and WGLC*



# Missing status progress report

The following WG drafts are missing status report:

- draft-ietf-mpls-bfd-directed – *Issues being sorted out*
- draft-ietf-mpls-rfc6374-sfl – *No status update*
- draft-ietf-mpls-sfl-framework – *No status update*

# Sleeping Beauties

- draft-alvarez-mpls-ldp-color-lsp
- draft-ama-mpls-fm-rdi
- draft-balaji-mpls-csc-te-lsp-splice
- draft-balaji-mpls-lawful-intercept-thru-label-dis
- draft-balaji-mpls-li-thru-label-dis-snmpp
- draft-beeram-mpls-rsvp-te-scaling
- draft-bryant-mpls-rfc6374-over-udp
- draft-bryant-mpls-sfl-control
- draft-bryant-mpls-synonymous-flow-labels
- draft-bryant-mpls-unified-ip-sr
- draft-cheng-mpls-tp-pwe3-dual-homed-protection
- draft-chen-mpls-ldp-yang-cfg
- draft-chenpeng-mpls-ldp-ext
- draft-dai-mpls-rsvp-te-mbb-label-reuse
- draft-esale-mpls-ldp-node-frr
- draft-fang-mpls-hsdn-for-hsdc
- draft-fang-mpls-label-forwarding-no-swap
- draft-farrelll-mpls-opportunistic-encrypt
- draft-fuxh-mpls-delay-loss-rsvp-te-ext
- draft-fuxh-mpls-delay-loss-te-framework
- draft-fuxh-mpls-delay-loss-te-framework
- draft-fuxh-mpls-delay-loss-te-problem-statement
- draft-gandhi-mpls-te-yang-model
- draft-hmk-mpls-tp-p2mp-oam-framework
- draft-iwijnand-mpls-mldp-multi-topology
- draft-jacob-mpls-ethldp
- draft-jacquetnet-mpls-rd-p2mp-te-requirements
- draft-keten-mpls-expbit
- draft-kini-mpls-entropy-label-src-stacked-tunnels
- draft-kini-spring-mpls-lsp-ping
- draft-kompella-mpls-larp
- draft-kompella-mpls-rsvp-ecmp
- draft-kumarkini-mpls-spring-lsp-ping
- draft-li-mpls-global-label-framework
- draft-li-mpls-global-label-usecases

# Sleeping Beauties -II

- draft-li-mpls-label-stack-distribution
- draft-li-mpls-ldp-mt-mib
- draft-li-mpls-p2mp-te-alt-path
- draft-li-mpls-path-programming
- draft-li-mpls-proxy-te-lsp
- draft-li-mpls-seamless-mpls-mbb
- draft-liu-mpls-tp-interconnected-ring-protection
- draft-liu-mpls-tp-p2mp-linear-protection
- draft-lzj-mpls-receiver-driven-multicast-rsvp-te
- draft-lzl-mpls-ucase-n-20bit-label-limitation
- draft-lzj-mpls-receiver-driven-multicast-rsvp-te
- draft-lzl-mpls-ucase-n-20bit-label-limitation
- draft-lzl-mpls-ucase-n-20bit-label-limitation
- draft-manral-mpls-rfc3811bis
- draft-mdm-mpls-tp-p2mp-oam-framework
- draft-mpls-big-label-ucase-req
- draft-mpls-big-label-ucase-req
- draft-nainar-mpls-spring-lsp-ping-sids
- draft-ncrsht-mpls-unique-and-consistent-label-ldp
- draft-ncrsht-mpls-unique-and-consistent-label-ldp
- draft-openconfig-mpls-consolidated-model
- draft-pdutta-mpls-tldp-hello-reduce
- draft-pelletier-mpls-ldp-bindings-refresh
- draft-pignataro-mpls-reserved-labels-lb
- draft-raszuk-mpls-domain-wide-labels
- draft-raszuk-mpls-domain-wide-labels
- draft-renwei-mpls-big-label
- draft-saad-mpls-lsp-instant-install-rsvpte
- draft-saad-mpls-lsp-instant-install-rsvpte
- draft-saad-mpls-lsp-instant-install-rsvpte
- draft-turaga-mpls-test-labels

# Sleeping Beauties -III

- draft-vainshtein-mpls-gal-tc-ttl-handling
- draft-vgovindan-mpls-extended-bfd-disc-tlv
- draft-wijnands-mpls-mldp-multi-topology
- draft-villamizar-mpls-multipath-extn
- draft-wu-mpls-rsvp-te-path-profile
- draft-xu-isis-mpls-elc
- draft-xu-mpls-el-capability-signaling-igp
- draft-xu-mpls-multi-domain-deployment-enhancement
- draft-xu-mpls-payload-protocol-identifier
- draft-xu-mpls-service-chaining
- draft-xu-mpls-spring-islands-connection-over-ip
- draft-xu-mpls-unified-source-routing-instruction
- draft-xu-sfc-using-mpls-based-source-routing
- draft-xu-sfc-using-mpls-spring
- draft-you-mpls-spring-sfc-oam
- draft-zhang-mpls-tp-yang-oam
- draft-zhao-mpls-mldp-protections
- draft-zheng-mpls-lsp-ping-yang-cfg
- draft-zlj-mpls-mrsvp-te-frr
- draft-zzhang-mpls-icmp-bier
- draft-zzhang-mpls-rmr-multicast