MPLS Working Group

WG Chairs:
Loa Andersson, Nic Leymann and Tarek Saad

WG Secretary:
Mach Chen

MPLS Session:
Friday, November 20, 2020 12:00-14:00 (UTC+7)
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)
Administrative

• Blue Sheet
  – Blue sheets will be automatically generated when you login into the Meetecho

• Meet Echo:
  – https://meetings.conf.meetecho.com/ietf109/?group=mpls

• Jabber:
  – xmpp: mpls@jabber.ietf.org?join

• Minutes Taking

• Online Agenda at:

• Online Slides at:
  – https://datatracker.ietf.org/meeting/109/session/mpls

• Data tracker:
  – http://datatracker.ietf.org/wg/mpls
Agenda Bashing

1. Administrivia & WG Status
   Presenter: WG Chairs, 15 (min)

2. MPLS Data Plane Encapsulation for In-situ OAM Data
   Presenter: Rakesh Gandhi (10 min)

3. Label Switched Path (LSP) Ping/Traceroute for Segment Routing (SR) Path Segment Identifiers (SIDs) with MPLS Data Planes
   Presenter: Xiao Min (15 min)
   https://datatracker.ietf.org/doc/draft-xp-mpls-spring-lsp-ping-path-sid-00

4. BFD for Multipoint Networks over Point-to-Multi-Point MPLS LSP
   Presenter: Greg Mirsky (10 min)

5. Egress TLV for Nil FEC in Label Switched Path Ping and Traceroute Mechanisms
   Presenter: Deepti N Rathi (15 min)
6. SR Generic TLV for MPLS LSP Ping/Trace  
   Presenter: Nagendra Kumar Nainar (10 min)  
   https://draft-nainar-mpls-spring-lsp-ping-sr-generic-sid-04

7. MPLS-based Service Function Path(SFP) Consistency Verification  
   Presenter: Yao Liu (10 min)  
   https://datatracker.ietf.org/doc/draft-lm-mpls-sfc-path-verification-01

8. The Use of Path Segment in SR-MPLS and MPLS Interworking  
   Presenter: Yao Liu (10 min)  

9. Export of MPLS Segment Routing Label Type Information in IP Flow Information Export (IPFIX)  
   Presenter: Thomas Graf (10 min)  
   https://datatracker.ietf.org/doc/draft-tgraf-ipfix-mpls-sr-label-type

10. Generic Transport Functions  
    Presenter: Jeffrey Zhang (10 min)  
    https://datatracker.ietf.org/doc/draft-zzhang-.tsvwg-generic-transport-functions-00
WG Status (Errata)

- [Technical Errata Reported] RFC6428 (6296)
  
  Section: 3.7
  
  Original Text:
  - In coordinated mode, an implementation SHOULD NOT reset bfd.RemoteDiscr until it is exiting the DOWN state.
  
  Corrected Text
  - In coordinated mode, an implementation SHOULD reset bfd.RemoteDiscr upon transitioning to the DOWN state, due to period of a Detection Time passing without the receipt of a valid, authenticated BFD packet from the remote system.

*bfd.RemoteDiscr:* The remote discriminator for this BFD session. This is the discriminator chosen by the remote system, and is totally opaque to the local system. This MUST be initialized to zero. *If a period of a Detection Time passes without the receipt of a valid, authenticated BFD packet from the remote system, this variable MUST be set to zero.*
WG Status (Errata)

• [Technical Errata Reported] RFC6512 (6313)
  
  • Section: 3.2.1
  • Original Text
    – Since P1 has no root to PE2, PE1 needs to originate an mLDP message with a FEC element that identifies ASBR1 as the root.
  • Corrected Text
    – Since P1 has no route to PE2, PE1 needs to originate an mLDP message with a FEC element that identifies ASBR1 as the root.

Typo:

s/root/route
### WG Status (Liaisons)

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

<table>
<thead>
<tr>
<th>Date</th>
<th>From</th>
<th>To</th>
<th>Deadline</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020-08-24</td>
<td>ccamp, mpls, pce, teas</td>
<td>ITU-T-SG-15</td>
<td></td>
<td>Reply to LS on OTN T Standardization Work Plan</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Date</th>
<th>From</th>
<th>To</th>
<th>Deadline</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020-10-05</td>
<td>ITU-T-SG-15</td>
<td>mpls</td>
<td></td>
<td>Updates to MPLS-T</td>
</tr>
<tr>
<td>2020-10-05</td>
<td>ITU-T-SG-15</td>
<td>ccamp, mpls, pals, pce, teas</td>
<td>2021-05-01</td>
<td>LS on OTNT Standardization Work Plan Issue 28</td>
</tr>
</tbody>
</table>
Document Status
Since IETF108

*** New RFCs

*** Docs in RFC Ed
- draft-ietf-mpls-ldp-yang
- draft-ietf-mpls-base-yang-17
- draft-ietf-mpls-sfl-framework

*** Docs in IESG
- draft-ietf-mpls-ri-rsvp-frr  - (authors recently refreshed document. Outstanding IESG review comments are being worked on.)

*** New WG Docs
- None
Document Status
Since IETF108

*** Updated WG Docs
- draft-ietf-mpls-static-yang-12
- draft-ietf-mpls-rmr (Return to WG for further assessment)
- draft-ietf-mpls-spl-terminology-04
- draft-ietf-mpls-bfd-directed-15 (follow-up meeting between authors and reviewer/Carlos underway)
- draft-ietf-mpls-lsp-ping-registries-update-05 (In WGLC)

*** Recently Expired
- draft-ietf-mpls-ldp-rmr-extensions-03
- draft-ietf-mpls-lsp-ping-ospfv3-codepoint-02 (Emailed authors to refresh it)
*** New Individual Docs
- draft-andersson-mpls-iana-registries-structure (Discussion on what tools are able to provide/possible)
- draft-rathi-mpls-egress-tlv-for-nil-fec
- draft-yang-mpls-ps-sdi-sr
- draft-xp-mpls-spring-lsp-ping-path-sid
Document Status
Since IETF 108

• **Updated Individual Docs**
  – draft-nainar-mpls-spring-lsp-ping-sr-generic-sid
    • WG adoption request received (Chairs asking for coordination meeting with draft-rathi-mpls-egress-tlv-for-nil-fec-01)
  – draft-cheng-mpls-inband-pm-encapsulation
    • WG adoption request received, 2\textsuperscript{nd} MPLS-RT review initiated – ETA: Dec 7th
  – draft-lm-mpls-sfc-path-verification
  – draft-kompella-mpls-nffrr
  – draft-gao-mpls-teas-rsvpte-state-update
  – draft-gandhi-mpls-ioam-sr
Document Status
Since IETF 108

• Alive Individual Docs without Update
  – draft-chandra-mpls-rsvp-shared-labels-np
  – draft-yang-mpls-ps-sdi-sr
  – draft-mirsky-mpls-p2mp-bfd
  – draft-bryant-mpls-sfl-control
  – draft-han-mpls-sdi-sr
  – draft-jiang-mpls-entropy-block
  – draft-nainar-mpls-lsp-ping-yang
  – draft-ninan-mpls-spring-inter-domain-oam
  – draft-xiong-mpls-path-segment-sr-mpls-interworking
  – draft-kompella-mpls-larp-08
Progress Report Update(s)

• draft-ietf-mpls-spl-terminology-04
  – Current status: Ready for WG LC
  – Next steps: A WGLC is issued

• draft-ietf-mpls-static-yang-12
  – Current status: In yangdoctors review
  – Next steps:
    • Address any outstanding comments
    • Add a JSON instance of the model as appendix
    • Request WGLC after

• draft-ietf-mpls-mldp-yang-07
  – Current status: In yangdoctors review
  – Next steps:
    • Confirmed with Authors that no outstanding issues
    • WGLC requested and will be issued
Progress Report Update(s)

- **draft-ietf-mpls-bfd-directed-14**
  - Current status: Stalled
    - Authors asked WG chairs guidance;
  - Next steps:
    - Chairs have reached out to authors via email

- **draft-ietf-mpls-rmr-13**
  - Current status:
    - Return to WG for further assessment
    - A poll of interest was triggered and some responses received for interest to progress the work
  - Next steps:

- **draft-ietf-mpls-ldp-rmr-extensions-03 (expired)**
  - Current status:
    - Waiting for draft-ietf-mpls-rmr
  - Next steps:
    - Emailed authors to refresh document
Progress Report Update(s)

- **draft-ietf-mpls-lsp-ping-ospfv3-codepoint-02 (expired)**
  - Current status: Expired
  - Chairs reached out to authors for progress on this – authors have not updated state
  - Next steps:
    - Asking authors to refresh
    - Early allocation will only progress after refreshing the document

- **draft-ietf-mpls-sr-epe-oam-00 (no update since last meeting)**
  - Current status: Recently adopted by WG
  - Next steps: invite more reviews
Progress Report Update(s)

- **draft-ietf-mpls-lsp-ping-registries-update-05**
  - Current status: In WGLC
  - Next steps:
    - Address WGLC comments
    - Requesting WG for more responses on the WGLC

- **draft-ietf-mpls-rfc6374-sfl-07**
  - Current status: Ready for WGLC
  - Next steps: Chairs to trigger WGLC