MPLS Working Group

IETF 96 – Berlin
July 2016

Monday July 18, 2016 - Morning Session I
Thursday July 21 2016 - Afternoon Session II
(JOINT PCE/TEAS/MPLS YANG session)
Note Well

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- Any IETF working group or portion thereof
- Any Birds of a Feather (BOF) session
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• Minute takers & Etherpad
  – http://tools.ietf.org/wg/mpls/minutes

• Meet Echo:
  – http://ietf96.conf.meetecho.com

• Online Agenda and Slides at: http://tools.ietf.org/wg/mpls/agenda
# Agenda Bashing – Admin

## Monday Session

- **Agenda** ([https://datatracker.ietf.org/meeting/95/agenda/mpls](https://datatracker.ietf.org/meeting/95/agenda/mpls)):

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<td>Chairs</td>
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<tr>
<td>RFC 4379 bis. - Detecting Multi-Protocol Label Switched (MPLS) Data Plane Failures</td>
<td>Carlos</td>
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<td>draft-shen-mpls-egress-protection-framework.02 - MPLS Egress Protection Framework</td>
<td>Yimin Shen</td>
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<tr>
<td>draft-deshmukh-rsvp-rmr-extension-00 - RSVP Extensions for RMR</td>
<td>Kireeti Kompella</td>
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<td>draft-ietf-mpls-rmr-02 - Resilient MPLS Rings</td>
<td>Kireeti Kompella</td>
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<td>draft-gmsm-bess-evpn-bfd-00 - Fault Management for EVPN networks</td>
<td>Gregory Mirsky</td>
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<td>draft-bryant-mpls-sfl-framework - Synonymous Flow Label Framework</td>
<td>Stewart Bryant</td>
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<td>draft-bryant-mpls-rfc6374-over-udp-00 - RFC6374 over UDP</td>
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<td>draft-bryant-mpls-rfc6374-sfl-00 - RFC6374 Synonymous Flow Labels</td>
<td>Stewart Bryant</td>
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<td>draft-bryant-mpls-sfl-control-00 - A Control Protocol for Synonymous Flow Labels</td>
<td>Stewart Bryant</td>
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<td>draft-leipnitz-spring-pms-implementation-report-00.txt - A scalable and topology aware MPLS data plane monitoring system</td>
<td>Ruediger Geib</td>
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<tr>
<td>draft-xu-mpls-payload-protocol-identifier - MPLS Payload Protocol Identifier</td>
<td>Xiaohu</td>
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Agenda Bashing – Admin
Thursday MPLS/TEAS/PCE Session

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<td>YANG Data Model for TE Topologie</td>
<td>Xufeng Liu</td>
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<td>A YANG Data Model for Traffic Engineering Tunnels and Interfaces</td>
<td>Tarek Saad</td>
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<td>A YANG Data Model for MPLS Static LSPs</td>
<td>Tarek Saad</td>
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<td>TEAS Transport Service Model</td>
<td>Xian Zhang</td>
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<td>PCEP YANG - draft-pkd-pce-pcep-yang</td>
<td>Dhruv Dhody</td>
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<td>YANG Data Model for MPLS LDP and mLDP</td>
<td>Kamran Raza</td>
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<tr>
<td>draft-zheng-mpls-lsp-ping-yang-cfg</td>
<td>Guangying Zheng</td>
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Agenda Bashing - Admin

• Fill in the Blue Sheets, and it pass on.

• Return to WG Chairs
 WG Status (Errata)  
Since Last Meeting

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

<table>
<thead>
<tr>
<th>RFC Number (Errata ID) Submitted</th>
<th>Section</th>
<th>Type</th>
<th>Source of RFC</th>
<th>Submitted By</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFC3209 (4733)</td>
<td>4.3.2</td>
<td>Editorial</td>
<td>mpls (rtg)</td>
<td>Ramakrishna DTV</td>
<td>2016-07-06</td>
</tr>
</tbody>
</table>

"Held for Document Update by: Deborah Brungard  
Date Held: 2016-07-12"

Section 4.3.2 says:

To formalize the discussion, we call each group of nodes an abstract node. Thus, we say that an explicit route is a specification of a set of abstract nodes to be traversed. If an abstract node consists of only one node, we refer to it as a simple abstract node.

It should say:

To formalize the discussion, we call each group of nodes an abstract node. Thus, we say that an explicit route is a specification of a sequence of abstract nodes to be traversed. If an abstract node consists of only one node, we refer to it as a simple abstract node.

Notes:

s/set/sequence

A set implies ordering of abstract nodes is NOT important.  
A sequence implies ordering of abstract nodes IS important.  
In the rest of RFC 3209, this distinction is maintained, but not in this paragraph."
WG Status (Errata)
Since Last Meeting

Status: **Rejected** (1)

<table>
<thead>
<tr>
<th>RFC Number (Errata ID)</th>
<th>Section</th>
<th>Type</th>
<th>Submitted By</th>
<th>Date Submitted</th>
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<tr>
<td>RFC5443 (4686)</td>
<td>3</td>
<td>Technical</td>
<td>Alexander Okonnikov</td>
<td>2016-05-06</td>
</tr>
</tbody>
</table>

“Rejected by: Deborah Brungard
Date Rejected: 2016-07-13

Section 3 says:

It should say:
(At the end of the section)

In case of OSPF while router advertises maximum cost, virtual link(s) that cross link under question, could be broken. This is because virtual link, which underlying path has cost greater than 0xFFFF, considered as inoperational. As a result, virtually connected area(s) could be isolated from backbone.

Notes:

In case there are two or more links on path taken by virtual link, and one of them has max link cost, path metric will exceed value 0xffff. As a result virtual link will become inoperational.

--VERIFIER NOTES--
This update requires consensus by the Working Group.”
**WG Status (Liaisons)**

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

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<tr>
<td></td>
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<td></td>
<td></td>
<td><strong>Response was received on July 14th</strong></td>
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<tr>
<td>2016-05-17</td>
<td>mpls, pals</td>
<td>ITU-T-SG-15</td>
<td></td>
<td>Update on MPLS-TP protection work in MPLS and PALS working groups</td>
</tr>
<tr>
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<td>2016-05-06</td>
<td>ippm, l3sm, mpls, OPS</td>
<td>MEF</td>
<td></td>
<td>Response to Liaison Statement on IP Service Attributes 2016-02-26</td>
</tr>
<tr>
<td></td>
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<td><strong>Response was received on May 6th</strong></td>
</tr>
</tbody>
</table>
**WG Status (Liaisons)**

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

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<th>Date</th>
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“ITU-T Q9/15 wishes to inform the IETF MPLS WG of our intent to initiate the approval process for Amendment 2 to Recommendation ITU-T G.8131/Y.1382 (2014) at the September 2016 meeting of Study Group 15. This amendment adds material on linear protection switching for pseudowires based on RFC 7771. The current draft of the amendment is attached. We would appreciate any comments you may have on this document in advance of our next meeting, which will be held in Geneva, 19-30 September 2016.

We also thank the MPLS WG and PALS WG for the updates you provided concerning your work on MPLS-TP shared protection rings, resilient MPLS rings, and dual homed pseudowire protection, and have encouraged those SG15 participants who are interested in this work to participate on the relevant IETF mailing lists.”
Document Status
Since IETF95

*** New WG-Docs:

- draft-ietf-mpls-spring-lsp-ping-00
  ['WG Document']
- draft-ietf-mpls-base-yang-01
  ['WG Document']
- draft-ietf-mpls-static-yang-01
  ['WG Document']
Document Status
Since IETF95

*** Updated WG-Docs:
- draft-ietf-mpls-entropy-lsp-ping-03 ['Publication Requested']
- draft-ietf-mpls-ldp-mrt-03 ['WG Document']
- draft-ietf-mpls-tp-linear-protection-mib-08 ['WG Document']
- draft-ietf-mpls-tp-temporal-hitless-psm-10 ['AD is watching', 'WG Document']
- draft-ietf-mpls-app-aware-tldp-05 ['WG Consensus: Waiting for Write-Up']
- draft-ietf-mpls-flow-ident-01 ['WG Document']
- draft-ietf-mpls-tp-shared-ring-protection-02 ['WG Document']
Document Status
Since IETF95

*** Updated WG-Docs:
- draft-ietf-mpls-rfc4379bis-06 ['WG Document']
- draft-ietf-mpls-residence-time-10 ['Waiting for Write Up']
- draft-ietf-mpls-rmr-02 ['WG Document']
- draft-ietf-mpls-spring-entropy-label-04 ['WG Document']
Document Status
Since IETF95

*** Existing WG-Docs:
- draft-ietf-mpls-tp-mfp-use-case-and-requirements-00  ['WG Document']
- draft-ietf-mpls-bfd-directed-02  ['WG Document', 'Proposed Standard']
- draft-ietf-mpls-opportunistic-encrypt-01  ['Experimental']
- draft-ietf-mpls-tp-aps-updates-00  ['WG Document']
- draft-ietf-mpls-rfc6374-udp-return-path-05  [in AUTH48]
**Document Status**

Since IETF95

*** New IDs
- draft-shao-mpls-ping-ttl-00
  ['I-D Exists']

*** Updated IDs
- draft-chandra-mpls-ri-rsvp-frr-04
  [Candidate for WG Adoption]
- draft-esale-mpls-ldp-node-frr-03
  ['I-D Exists']
- draft-rosen-mpls-rfc3107bis-01
  [Candidate for WG Adoption]
- draft-bryant-mpls-sfl-framework-01
  ['I-D Exists']
- draft-xu-mpls-payload-protocol-identifier-01
  ['I-D Exists']
- draft-shen-mpls-egress-protection-framework-02
  ['I-D Exists']
- draft-raza-mpls-ldp-mldp-yang-04
  ['I-D Exists']
*** Existing IDs

- draft-fang-mpls-hsdn-for-hsdc-05  ['I-D Exists']
- draft-zhang-mpls-tp-yang-oam-02   ['I-D Exists']
- draft-kompella-mpls-larp-05       [Candidate for WG Adoption]
- draft-turaga-mpls-test-labels-00  ['I-D Exists']
- draft-mtaillon-mpls-summary-frr-rsvpte-04  ['I-D Exists']
- draft-zheng-mpls-lsp-ping-yang-cfg-03  ['I-D Exists']
- draft-ijln-mpls-rfc5036bis-02      [Candidate for WG Adoption]
I-D Progress Update(s)

I-D: `<draft-ietf-mpls-tp-linear-protection-mib>`

- **Current status:**
  - The authors received MIB Doctor's comments from Joan two weeks ago, and they are working on resolution.

- **Next steps:**
  - The authors will upload a revision.

I-D: `<draft-ietf-mpls-tp-aps-updates>`

- **Current status:**
  - No activities since the last upload in March.

- **Next steps:**
  - The authors want to add new text for clarifying actions related to state transition table lookup.
  - They will bring the proposal to the MPLS WG email list soon.
I-D Progress Update(s)

I-D: <draft-mtaillon-mpls-summary-frr-rsvpte>

• Current status:
  – Responded to comments on WG alias
  – No open issues from last update

• Next steps:
  – Asking for document WG adoption