SRv6 based BGP services
draft-ietf-bess-srv6-services-02

Author(s):
Gaurav Dawra, LinkedIn
Clarence Filsfils, Cisco Systems
Robert Raszuk, Bloomberg LP
Bruno Decraene, Orange
S. Zhuang, Huawei Technologies
J. Rabadan, Nokia

Presenter:
Gaurav Dawra, LinkedIn
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Interim Meeting
Overview

The draft specifies the BGP extensions for signaling of services over SRv6

- L3VPN for IPv4 and IPv6
- Global IPv4 and IPv6
- EVPN
First presented SRv6 based L3VPN services in IDR at IETF98
- Further introduction of SRv6 based EVPN and Global services in IDR at IETF101
- Presented SRv6 Services Draft in BESS at IETF104
- Presented update packing optimizations in BESS at IETF105
- Adopted as WG document just before IETF106
Clarifications on Encoding & Signaling

• Handling of multiple SID signaling for the same route
• Clarifications for the Transposition Scheme
• Clarifications on next-hop and SID reachability
• Treat-as-withdraw error handling for TLV errors is clarified
EVPN Signaling Updates

• Clarifications on EVPN route type 3 signaling

• Inclusion of local-bias method support for SRv6
Editorial Changes

• Editorial changes and re-ordering of some sections and content for improving the document flow
• TLV encoding is now described before the services signaling section
• Updated reference from RFC5549 to draft-ietf-bess-rfc5549revision
• Removed redundant text and updated with references to appropriate base specifications
IANA Early Allocation

• Authors requested WG for early allocations on 03 Mar, 2020
• Approved IANA Allocation by DE on April 27, 2020.
• Multiple implementations using the following codepoints

Allocations to be made from BGP Prefix SID TLV types as below

<table>
<thead>
<tr>
<th>Value</th>
<th>Type</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Deprecated</td>
<td>&lt;this document&gt;</td>
</tr>
<tr>
<td>5 (suggested)</td>
<td>SRv6 L3 Service TLV</td>
<td>&lt;this document&gt;</td>
</tr>
<tr>
<td>6 (suggested)</td>
<td>SRv6 L2 Service TLV</td>
<td>&lt;this document&gt;</td>
</tr>
</tbody>
</table>

• Request for the formalization of allocations at the earliest
Implementation & Deployment Status

- Implementations shipping & in production from Cisco, Huawei and other vendors
- Open source implementations in Linux kernel, fd.io
- Deployments in production at Softbank, China Telecom, Iliad, LINE Corp, China Unicom, MTN Uganda, etc.
- Multi-vendor interop at EANTC since 2018

- More details in: draft-matsushima-spring-srv6-deployment-status
Next Steps

• Given the implementations and deployments, authors are preparing the document for WGLC around IETF108

• Request WG for review and comments