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

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

- L3VPN for IPv4 and IPv6
- Global IPv4 and IPv6
- EVPN

# Draft Progress

- 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-bessrfc5549revision
- 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

Value		Туре	Reference
4		Deprecated	<this document=""></this>
5	(suggested)	SRv6 L3 Service TLV	<this document=""></this>
6	(suggested)	SRv6 L2 Service TLV	<this document=""></this>

· 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-deploymentstatus



- Given the implementations and deployments, authors are preparing the document for WGLC around IETF108
- Request WG for review and comments