

BESS WG

Prague – IETF 104 – March 2019

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- 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)

Admin

- Blue Sheets

Website updates

BGP Enabled ServiceS (bess)

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WG Name BGP Enabled ServiceS
Acronym bess
Area Routing Area (rtg)
State Active
Charter [charter-ietf-bess-01](#) **Approved**
Status Update [Show update](#) (last changed 2018-11-15)
Dependencies [Document dependency graph \(SVG\)](#)
Additional URLs - [Implementation Requirement Policy](#)
- [Wiki](#)
- [Issue tracker](#)

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← → ↻ <https://trac.ietf.org/trac/bess/wiki> ☆

wiki: [WikiStart](#)

BESS WG detailed Status (DRAFT)

[Last update 03/12/19]

Critical items (RED FLAG)

- Consistency checks required between editors of BESS YANG models to ensure a similar way of configuring and operations VPN models.

On going polls

Document Name	Poll type	Chair in Charge	Start date	End date	Comment
draft-malhotra-bess-evpn-irb-extended-mobility	Adoption	Stephane	03/05/19	03/19/19	

Action items

This section lists actions other than document updates

Action	Owner	Start date	Expected date	Done
Republish errata for RFC7432	Ali	Nov'18	End of Feb 19	
Update milestones	Chairs	Nov'18	Nov'18	YES

Early allocations

Document Name	Request date (by authors)	Status	AD approval date	IANA first allocation date	Renewal date	Expiration date
draft-ietf-bess-mvpn-evpn-aggregation-label	12/11/18	Allocated	12/19/18	01/23/19		01/23/20
draft-ietf-bess-evpn-igmp-mld-proxy		Allocated		09/25/17	09/07/18	09/25/19
draft-ietf-bess-evpn-bum-procedure-updates		Allocated		02/17/17	02/13/19	02/17/20

Latest RFCs

- RFC8534: Explicit Tracking with Wildcard Routes in Multicast VPN (Feb 19)
- RFC8502: L2L3 VPN Multicast MIB (Dec 18)
- RFC8503: BGP/MPLS Layer 3 VPN Multicast MIB (Dec 18)
- RFC8388: EVPN usage (May 18)
- RFC8365: EVPN overlay (Mar 18)

Milestones

- Refreshed milestones, we are late...

Milestones

Date	↕ Milestone
Jun 2019	Submit a YANG datamodel for mVPN to IESG as PS draft-liu-bess-mvpn-yang
Mar 2019	Submit specification for BGP NSH controlplane to IESG as PS draft-ietf-bess-nsh-bgp-control-plane
Jan 2019	Submit a YANG datamodel for L2VPN to IESG as PS draft-ietf-bess-l2vpn-yang
Jan 2019	Submit a Yang or SMI datamodel for E-VPN to IESG as PS draft-ietf-bess-evpn-yang
Jan 2019	Submit a Yang or SMI datamodel for RFC4364 to IESG as PS draft-ietf-bess-l3vpn-yang
Dec 2018	Submit specifications for VPLS multi-homing to IESG as PS draft-ietf-bess-vpls-multihoming draft-ietf-l2vpn-vpls-multihoming
Dec 2015	Submit E-VPN OAM to IESG as PS

Status Update

- RFC Published since last IETF
 - [RFC 8534](#): Explicit Tracking with Wildcard Routes in MVPN
 - [RFC 8503](#): BGP/MPLS L3VPN mcast MIB
 - [RFC 8502](#): L2L3 mcast MIB
- Documents in RFC Ed Queue:
 - [draft-ietf-bess-dci-evpn-overlay](#) (MISSREF draft-ietf-idr-tunnel-encaps)
 - [draft-ietf-bess-evpn-prefix-advertisement](#) (MISSREF draft-ietf-bess-evpn-inter-subnet-forwarding)
 - [draft-ietf-bess-evpn-df-election-framework-09](#)
 - [draft-ietf-bess-evpn-vpls-seamless-integ-07](#)
- AD Review (Martin):
 - [draft-ietf-bess-evpn-optimized-ir-06](#)
 - [draft-ietf-bess-evpn-inter-subnet-forwarding-08](#)
- IESG Review:
 - [draft-ietf-bess-bgp-vpls-control-flags-07](#)

Status Update

- Documents ready for submission to IESG: None
- With document shepherd(post WG LC)
 - draft-ietf-bess-evpn-virtual-eth-segment
 - draft-ietf-bess-vpls-multihoming
 - draft-ietf-service-chaining: possible plan to split the document
 - draft-ietf-bess-bum-procedure-updates (no shepherd assigned yet, any volunteer ?)
 - draft-ietf-bess-nsh-bgp-controlplane: I-D update required
- Document that failed WGLC:
 - draft-ietf-bess-mvpn-fast-failover: new questions raised by Jeffrey
- Ready for WG LC:
 - draft-ietf-bess-evpn-irb-mcast
 - draft-ietf-bess-evpn-pref-df
 - draft-ietf-bess-mvpn-evpn-aggregation-label
 - draft-ietf-bess-mvpn-msdp-sa-interoperation
 - draft-ietf-bess-evpn-na-flags
 - draft-ietf-bess-evpn-proxy-arp-nd

Status Update

- New WG documents
 - draft-ietf-bess-mvpn-evpn-aggregation-label: adopted on 11/26/18
 - draft-ietf-bess-mvpn-yang: adopted on 01/22/19
 - draft-salam-bess-evpn-oam-req-frmwk: adopted on 02/25/19
 - draft-rabadan-sajassi-bess-evpn-ipvpn-interworking adopted on 03/06/19

Status Update

- Documents ready for WG adoption:
 - draft-jain-bess-evpn-lsp-ping
 - draft-gmsm-bess-evpn-bfd
 - draft-keyupate-bess-evpn-virtual-hub
 - draft-brissette-bess-evpn-mh-pa
 - draft-www-bess-yang-vpn-service-pm
 - draft-rabadan-bess-vendor-evpn-route
 - draft-snr-bess-evpn-loop-protect
 - draft-snr-bess-pbb-evpn-isid-cmacflush
 - draft-boutros-bess-evpn-geneve
- On going adoption poll:
 - draft-malhotra-bess-evpn-irb-extended-mobility-04

WG Document status

- [draft-ietf-bess-datacenter-gateway](#) : Document ready to advance, authors are looking for feedback. Possibly no impetrations.
- [draft-ietf-bess-evpn-per-mcast-flow-df-election-01](#): Waiting for Proxy & DF framework to go ahead. WGLC expected in IETF105
- [draft-ietf-bess-evpn-unequal-lb](#): Draft update in progress.

WG Document status

- draft-ietf-bess-evpn-ipvpn-interworking: Some part of draft is being implemented. Document is progressing.
- draft-ietf-bess-evpn-yang: Being presented in IETF104 to move forward.
- draft-ietf-bess-l3vpn-yang: Reminder sent to authors.
- draft-ietf-bess-mvpn-yang : New version posted, seeking WG comment

WG Document status before IETF 105

- Any blockers, Authors to reach out WG / Chairs any time.
- Expected to get update mid of May 2019 (Before IETF 105)

Main action items from last IETF meeting

- Milestone refresh (chairs): DONE
- Send the inter-subnet-forwarding draft to IESG: DONE
- Consolidate LxVPN/EVPN yang models: status ??
- Republish ERRATA for RFC7432 (MPLS label encoding) (Ali): Details in next slide

Republish ERRATA for RFC7432

- Erratum for RFC 7432: should be done comprehensively – i.e., on not just ESI label of the EC but on all MPLS label values in section 7. Need to clearly state the bits – i.e., bits 8 to 24.
- MPLS Label of EAD route - section 7.1
- MPLS Label1 & Label2 of MAC/IP Adv route – section 7.2 (although this is discussed later in section 9.2.1 but it is better to be consistent and capture it up front)
- ESI Label of the EC that we have been discussing – section 7.5
- Review of Ethernet-Tag vs Ethernet Tag ID vs VLAN terminology and make sure is not confusing (as it sometime is for people in RFC7432)
- Make sure all the route label field descriptions say the label is encoded in the high-order 20 bits.
- Introduction of L2 attributes EC with CW, MTU and P/B bits. Describe CW signaling and backward compatibility: There are three possible scenarios that need to be covered.
- Update of the DF Election procedure, so that, for single-active, PEs elect not only a DF but also a BDF and signal P/B respectively
- Maybe make sure the use of the ESI activation timer is clear
- Support of DCB allocated labels for ESI-labels, which then adds support for MP2MP tunnels in EVPN
- Any editorial fixes
- Add RT-1 (EAD-ES) & RT-4 priority handling by BGP speakers over any other EVPN routes, followed by EAD-EVI and RT-3.

Agenda

1. Working Group Status	Chairs	20 min
2. draft-ietf-bess-evpn-yang-06	Patrice Brissette	
3. draft-brissette-bess-evpn-l2gw-proto-03	Patrice Brissette	
4. draft-brissette-bess-evpn-mh-pa-02	Patrice Brissette	10 min
5. draft-sajassi-bess-secure-evpn-01	Ali Sajassi	10 min
6. draft-zzhang-bess-bgp-multicast-02	Jeffrey Zhang	
7. draft-zzhang-bess-mvpn-evpn-segmented-forwarding-00	Jeffrey Zhang	
8. draft-zzhang-bess-mvpn-evpn-cmcast-enhancements-00	Jeffrey Zhang	25 min
9. draft-malhotra-bess-evpn-lsoe-00	Neeraj malhotra	10 min
10. draft-mohanty-bess-weighted-hrw-00	Satya mohanty	5 min
11. draft-dawra-bess-srv6-services-00	Gaurav Dawra	10 min
12. draft-wsv-bess-extended-evpn-optimized-ir-01	Wen Lin	
13. draft-rbickhart-evpn-ip-mac-proxy-adv-00	Wen Lin	10 min
14. draft-nr-bess-evpn-mh-split-horizon-00	Jorge Rabadan	
15. draft-zzhang-bess-mvpn-evpn-composite-tunnel-00	Jorge Rabadan	10 min
16. draft-liu-bess-evpn-mcast-bw-quantity-df-election-00	Michael McBride	5 min
17. draft-zwm-bess-es-failover-00	Sandy	5 min