Note Well

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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)
Admin

• Blue Sheets
# Website updates

## BGP Enabled ServiceS (bess)

### 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

### Personnel
- Chairs: Matthew Bocci, Stephane Litkowski  
- Area Director: Martin Vigoureux  
- Secretary: mankamana mishra

### Mailing list
- Address: bess@ietf.org  
- To subscribe: https://www.ietf.org/mailman/listinfo/bess

## BESS WG detailed Status (DRAFT)

[Last update 03/12/19]

### Critical Item (RED FLAG)
- Consistency checks required between editors of BESS YANG models to ensure a similar way of configuring and operating VPN models.

### On going polls
- [Action](#)  
- [Owner](#)  
- [Start date](#)  
- [Expected date](#)  
- [Done](#)

### Action items
- This section lists actions other than document updates

### Early allocations
- Document Name
- Request date (by authors)
- Status
- AD approval date
- Data first allocation date
- Renewal date
- Expiration date

### Latest RFCs
- RFC8534: Explicit Tracking with Wildpath Routes in Multicast VPN (Feb 19)  
- RFC8502: L2L3 VPN Multicast MIB (Dec 18)  
- RFC8503: BGP/MPRLS Layer 3 VPN Multicast MIB (Dec 18)  
- RFC8532: EVPNI usage (May 18)  
- RFC8533: EVPNI (Dec 18)  
- RFC8565: EVPNI overlay (Mar 18)
## Milestones

- Refreshed milestones, we are late...

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

• `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
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
2. draft-ietf-bess-evpn-yang-06
   Chairs                 20 min
3. draft-brissette-bess-evpn-l2gw-proto-03
4. draft-brissette-bess-evpn-mh-pa-02
5. draft-sajassi-bess-secure-evpn-01
6. draft-zzhang-bess-bgp-multicast-02
7. draft-zzhang-bess-mvpn-evpn-segmented-forwarding-00
8. draft-zzhang-bess-mvpn-evpn-cmcast-enhancements-00
9. draft-malhotra-bess-evpn-lsoe-00
10. draft-mohanty-bess-weighted-hrw-00
11. draft-dawra-bess-srv6-services-00
12. draft-wsv-bess-extended-evpn-optimized-ir-01
13. draft-rbickhart-evpn-ip-mac-proxy-adv-00
14. draft-nr-bess-evpn-mh-split-horizon-00
15. draft-zzhang-bess-mvpn-evpn-composite-tunnel-00
16. draft-liu-bess-evpn-mcast-bw-quantity-df-election-00
17. draft-zwm-bess-es-failover-00

Patrice Brissette
Patrice Brissette
Patrice Brissette
Ali Sajassi
Jeffrey Zhang
Jeffrey Zhang
Jeffrey Zhang
Neeraj malhotra
Satya mohanty
Gaurav Dawra
Wen Lin
Wen Lin
Jorge Rabadan
Jorge Rabadan
Michael McBride
Sandy