

EVPN Vendor Specific route type

draft-rabadan-bess-vendor-evpn-route-00

Jorge Rabadan

Martin Vigoureux

Mallika Gautam

Siddhesh Dindorkar

IETF 95, April 2016

Buenos Aires,
Argentina

Why an EVPN 'Vendor Specific' Route Type?

Because there is a need for a rapid design of new applications/prototypes without disrupting existing DC networks

EVPN is perceived as the de-facto standard control plane protocol in DCs.

Operators and vendors require the rapid design and deployment of new cloud applications without disturbing existing DC networks

(BGP peer reset is perceived as a major disruption)

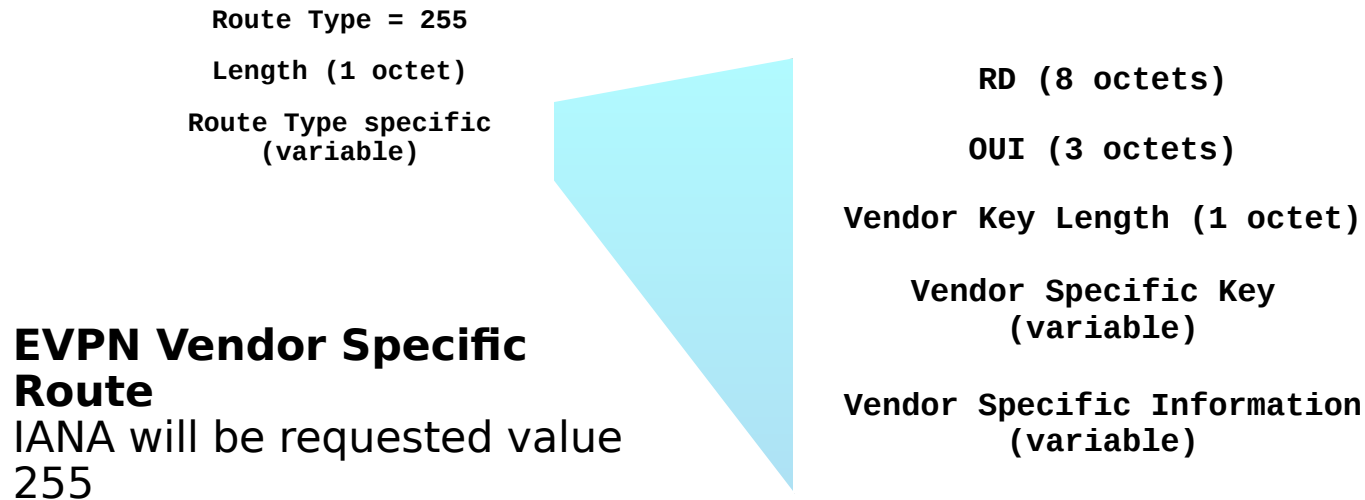
Because some vendors require the exchange of specific information in a multi-vendor network

Some information may be relevant only for a specific vendor, while other vendors in the same network don't need it or get it in a different way

Because EVPN can do it

EVPN's ability to support 'typed' NLRIs makes it extensible and flexible

EVPN Vendor Specific Route Type



- RD, OUI, Vendor Key Length and Vendor Specific Key are considered part of the route key for BGP processing
- OUI values owned and assigned by IEEE
- As per RFC7606, BGP EVPN speakers that DO NOT understand the route type will discard the route
- A BGP EVPN speaker supporting route type 255 MUST accept the route even if it does not recognize the OUI or Vendor information

Next steps

- The authors would like to solicit feedback from the WG

THANKS!