



BMP Loc-RIB: Peer address

draft-francois-grow-bmp-loc-peer-01

IETF 117

Pierre FRANCOIS, INSA-Lyon
Maxence YOUNSI, INSA-Lyon
Paolo LUCENTE, NTT



Agenda

- Reminder
- Feedback received
- Update
- Debate



Reminder

- BMP Loc RIB (RFC 9069) provides a view on Loc-RIB
 - Peer-address field in per-peer header is zero-filled
 - You don't know which peer gave you the paths you put in Loc-RIB
 - Requires effort when digging in the data, especially in multi-path/add-path scenarios
 - Unfortunate as BMP implementations may have the information
- We'd like to allow to provide this information



How

- Draft opens two options
- Allow the peer-address to be non zero-filled
 - Backward compatibility...
 - Default behaviour remains zero-filled, cfg to enable the behaviour
- Use draft-ietf-grow-bmp-tlv
 - TLV type "Peer-Address TLV" to be reserved
 - Ignored by collectors who can't recognize it by design



Feedback #1: Option 1 is messy

- Option 1: Allow the peer-address to be non zero-filled
- Nice on paper
- Maybe less so IRL
 - Implementations may suffer as update was not anticipated in the code and new flags may be improperly dealt with
 - Operator will have to pay attention and configure stuff selectively based on router and collector capability, maybe for things not to break



Feedback #2: VRF Imports

- “It’s nice to get to know the peer from which I received a loc-rib path, but if the path was imported from another VRF, you’re unable to figure out the right context for this peer address”
- True...



draft-francois-grow-bmp-loc-peer-01

- *Rx Peer Address TLV*
- Previous VRF Name TLV
- Origin VRF Name TLV
- VRF Name Sequence TLV



Previous VRF Name TLV

- Loc-RIB on VRF *V*
- A Path received in VRF *cust1* was imported into *global*, then into *V*
⇒
- Previous VRF Name TLV is: “global”
- (*V* is already identified through RFC9069)



Origin VRF Name TLV

- Loc-RIB on VRF *V*
- A Path received in VRF *cust1* was imported into *global*, then into *V*
⇒
- Origin VRF Name TLV is: “cust1”
- (*V* is already identified through RFC9069)



VRF Name Sequence TLV

- Loc-RIB on VRF V
- A Path received in VRF *cust1* was imported into *global*, then into V
⇒
- VRF Name Sequence TLV is:
[“global”, “cust1”]
- (V is already identified through RFC9069)
- Pro
 - Everything in one message, no need to work on collection-side
- Cons
 - Maybe difficult for some BMP implementations to obtain the sequence from the context where this was message was generated
 - Devs won't like it



Self originated prefixes

- Zero-filled RX Peer Address TLV means it was self originated in the corresponding VRF



Debates

- “Origin VRF TLV is the only one needed”
 - For the purpose of resolving the peer address, yes
 - Yet the VRF import information is a nice piece of information for monitoring purposes...
- Ok solution to deal with VRF imports?
- Cancel idea of updating RFC9069 Peer Address field?



WG Doc?