

BGP Extended Community for Identifying the Target Nodes

draft-dong-idr-node-target-ext-comm-05

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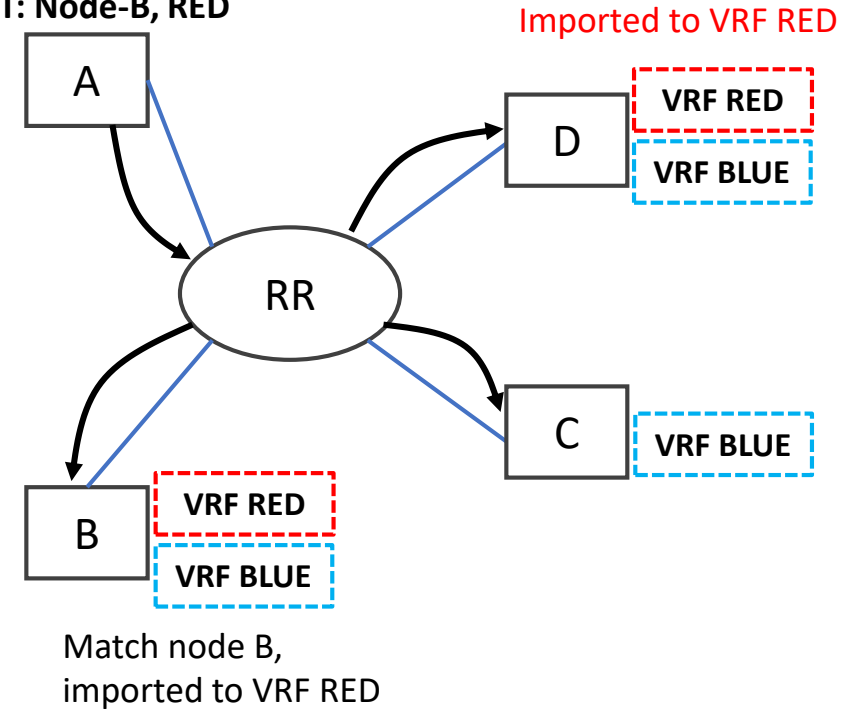
History and Updates

- Presented at IETF#101/109 and got good feedback from WG
 - Thanks people below for their comments and suggestions
 - Zhenbin Li, Ercin Torun, Jeff Haas, Robert Raszuk, John Scudder and Ignas Bagdonas etc.
 - All of the received comments have been addressed
- Enable RR to configure local-policy to reflect the Updates to the matched BGP peers.
- Added texts on security considerations
 - Thanks to John Scudder for the useful comment

An example to show the problem – Why Not Use RT

- Node A advertises a VPN FlowSpec route targeted at VRF RED on node B
- If RT is used to designate the target node B
 - Both RT *Node-B* and RT *RED* are carried in BGP Update
 - Both node B and node D would import the VPN route to VRF RED - The purpose of the user is to prevent node D from importing such route.
- This document proposes a generic mechanism to designate the target nodes for information advertised using BGP
 - Independent from the use of RT

Advertise VPN FlowSpec with RT: Node-B, RED

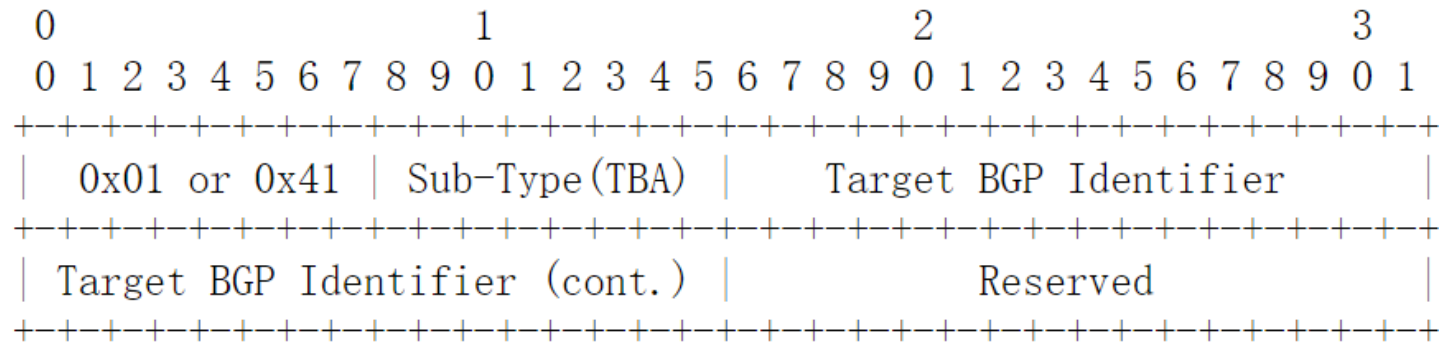


How to prevent node D from importing routes that do not belong to it?

Proposed Solution

➤ A new BGP extended community to carry the target node information

- Node Target extended community (NT)



- Target BGP Identifier: 4-octet unsigned, non-zero integer to identify a BGP node

➤ One or more Node Target extended communities may be carried in BGP

Update

Next Steps

- Comments and feedbacks are welcomed
- Request for WG Adoption

Thank You