

NG MVPN BGP ROUTE TYPES AND ENCODINGS

Examples for Easy Reference

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Introduction

NG MVPNs use seven types of BGP MVPN routes, five of which are used for autodiscovery and two for C-multicast protocol information exchange between provider edge (PE) routers. This application note identifies and gives examples of NG MVPN route types and their encodings.

Scope

This document is for use in the field when configuring and verifying NG MVPNs.

Design Considerations

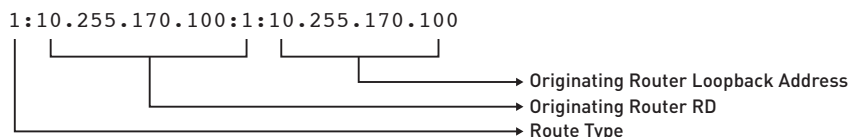
These examples apply to NG MVPN using the BGP control plane.

NG MVPN BGP Route Types and Encodings

Key			
AD	autodiscovery	MVPN	multicast VPN
AS	autonomous system	NG	next generation
ASBR	AS border router	PE	provider edge
C-G	customer multicast group address	PMSI	provider multicast service interface
C-S	customer multicast source address	RD	route distinguisher
C-multicast	customer multicast	RP	rendezvous point
I-PMSI	inclusive PMSI	S-PMSI	selective PMSI

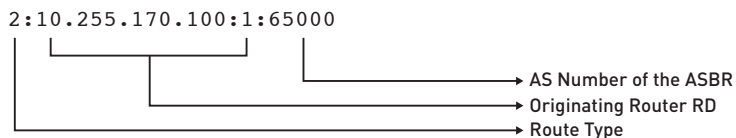
Type 1 Example: Intra-AS I-PMSI AD Route

Originated by all PE routers participating in NG MVPN.



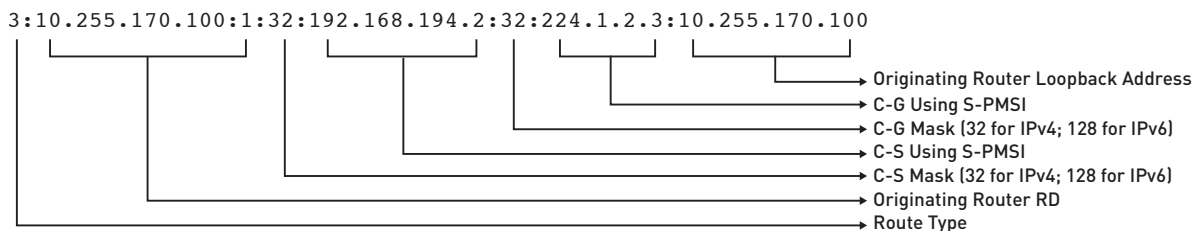
Type 2 Example: Inter-AS I-PMSI AD Route

Originated by all ASBR PE routers.



Type 3 Example: S-PMSI AD Route

Originated by the sender PE router (the sender PE that initiates the S-PMSI).



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