

# Network Configuration Example

## Configuring MBGP Multicast VPNs



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# Table of Contents

<b>Chapter 1</b>	<b>Configuring MBGP Multicast VPNs . . . . .</b>	<b>5</b>
	About This Network Configuration Example . . . . .	5
	Multiprotocol BGP-based Multicast VPNs . . . . .	5
	MBGP Multicast VPN Applications . . . . .	6



## CHAPTER 1

# Configuring MBGP Multicast VPNs

- [About This Network Configuration Example on page 5](#)
- [Multiprotocol BGP-based Multicast VPNs on page 5](#)
- [MBGP Multicast VPN Applications on page 6](#)

### About This Network Configuration Example

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This document provides a step-by-step procedure to configure multicast services across a multiprotocol BGP Layer 3 virtual private network.

### Multiprotocol BGP-based Multicast VPNs

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Multiprotocol BGP-based multicast VPNs (also referred to as next-generation Layer 3 VPN multicast) constitute the next evolution after dual multicast VPNs (draft-rosen) and provide a simpler solution for administrators who want to configure multicast over Layer 3 VPNs.

The main characteristics of multiprotocol BGP-based multicast VPNs are:

- They extend Layer 3 VPN service (RFC 2547) to support IP multicast for Layer 3 VPN service providers.
- They follow the same architecture as specified by RFC 2547 for unicast VPNs. Specifically, BGP is used as the control plane.
- They eliminate the requirement for the virtual router (VR) model, which is specified in Internet draft draft-rosen-vpn-mcast, *Multicast in MPLS/BGP VPNs*, for multicast VPNs.
- They rely on RFC-based unicast with extensions for intra-AS and inter-AS communication.

#### Related Documentation

- [MBGP Multicast VPN Applications on page 6](#)
- *Example: Configuring MBGP Multicast VPNs*

## MBGP Multicast VPN Applications

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There are several multicast applications driving the deployment of next-generation Layer 3 MVPNs. Some of the key emerging applications include the following:

- Layer 3 VPN multicast service offered by service providers to enterprise customers.
- Video transport applications for wholesale IPTV and multiple content providers attached to the same network.
- Distribution of media-rich financial services or enterprise multicast services.
- Multicast backhaul over a metro network.

**Related  
Documentation**

- *Example: Configuring MBGP Multicast VPNs*
- [Multiprotocol BGP-based Multicast VPNs on page 5](#)