

PIM-SMv6 Module

SKU ZOS-PIMSM6

The ZebOS® Advanced Routing Suite (ARS) Protocol Independent Multicast-Sparse Mode (PIM-SM) IPv6 Module is a multicast routing protocol module that uses the underlying unicast Routing Information Base (RIB) to find out the best next-hop neighbor to reach the root of the multicast data distribution tree or the Rendezvous Point (RP) or the source. It builds unidirectional-shared trees per group and optionally creates shortest-path trees per source.

The ZebOS PIM-SM Module is written in the ANSI C programming language and fully integrated into the ZebOS Network Services Module (NSM) and the ZebOS IPv6 protocol modules.

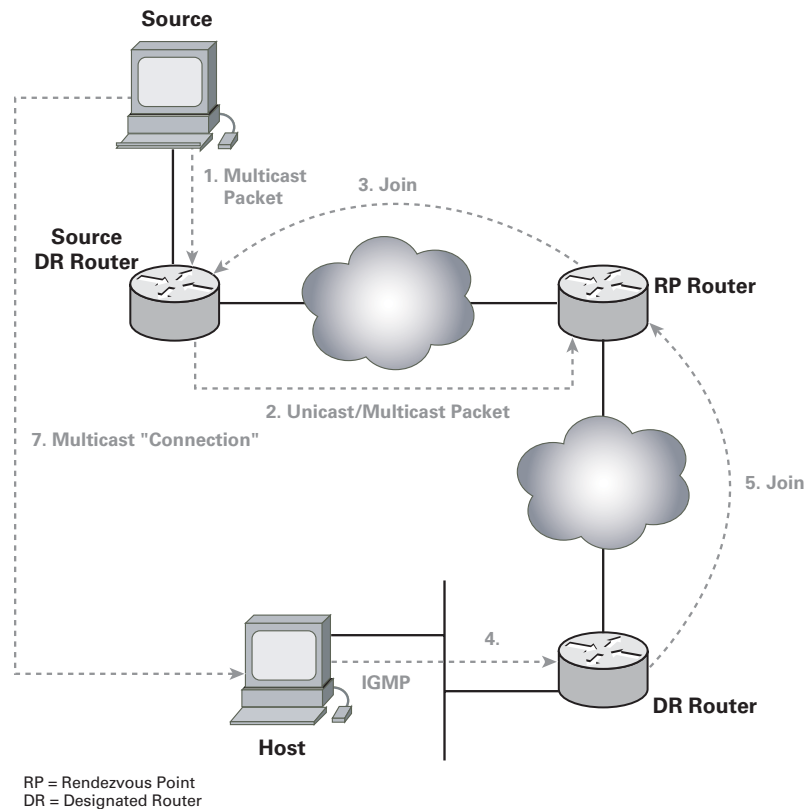


Figure 1 PIM-SMv6 Network Topology

Features

- Reverse Path Forwarding (RPF) algorithm Support
- Static Rendezvous Point (RP) Configuration Support
- Static RP for multiple group range
- Bootstrap Mechanism (BSM) Support
- Rooted shared trees and source specific trees (Multicast delivery trees) using periodic and triggered Join/Prune messages Support
- IGMPv2 Support via ZebOS NSM or protocol daemon
- Neighbor Discovery Support
- Industry Standard Command Line Interface
- Last hop binary switch over to Shortest Path Tree (SPT)
- Multicast Listener Discovery version 1 (MLDV1)

Benefits

- Stable, robust implementation of PIM-SM
- Interoperable with major router vendors
- Can be used in embedded equipment and on standard server platforms
- Delivers significant time-to-market advantages for customer
- Platform-independent implementation

Requirements

SKU	PRODUCT NAME
ZOS-NSM	ZebOS Network Services Module

Standards Support

STANDARD	FUNCTION
RFC2362	Protocol Independent Multicast-Sparse Mode (PIM-SM)
RFC2710	Multicast Listener Discovery(MLD) for IPv6
Draft-ietf-pim-sm-bsr-02	Bootstrap Router (BSR) Mechanism for PIM Sparse Mode
Draft-ietf-pim-sm-v2-new-08 (This draft is backward compatible with RFC2362)	Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)
Draft-ietf-pim-mib-v2.00	Protocol Independent Multicast MIB

Supported Operating Systems

- NetBSD*
- * Requires third party multicast forwarder patch.

Standard Deliverables

- Source Code (written in ANSI compliant C)
- PIM-SM Command References
- Developer Guides
- Installation and Configuration Guide



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