ZebOS-XP PIM6 SMI Reference

IP Infusion Inc.

Generated by Doxygen 1.6.1

Wed Dec 16 12:34:03 2015

Contents

Chapter 1

File Index

1.1 File List

Here is a list of all documented files with brief descriptions:

Chapter 2

File Documentation

2.1 smi_pim6.h File Reference

Provides API for managing PIMv6. `#include "smi_client.h"`

`#include "smi_pim6_msg.h"`

Functions

- int **smi_pim6_api_vif_mode_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int8_t mode)
- int **smi_pim6_api_vif_mode_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int8_t mode)
- int **smi_pim6_api_vif_passive_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_passive_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_hello_interval_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int16_t helloInterval)
- int **smi_pim6_api_vif_hello_interval_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_hello_holdtime_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int16_t helloHoldTimeInterval)
- int **smi_pim6_api_vif_hello_holdtime_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_propagation_delay_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int16_t propagationDelay)
- int **smi_pim6_api_vif_propagation_delay_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_nbr_filter_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, char ∗neighborFilterName)
- int **smi_pim6_api_vif_nbr_filter_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, char ∗neighborFilterName)

- int **smi_pim6_api_vif_state_refresh_originate_interval_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int16_t stateRefreshOriginateInterval)
- int **smi_pim6_api_vif_state_refresh_originate_interval_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vr_id, char ∗ifname)
- int **smi_pim6_api_vif_dr_priority_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int32_t designatedRouterPriority)
- int **smi_pim6_api_vif_dr_priority_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_exclude_genid_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_exclude_genid_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_bsr_border_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_bsr_border_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_unicast_bsm_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_vif_unicast_bsm_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName)
- int **smi_pim6_api_router_id_set_validate** (struct smiclient_globals ∗azg, u_int32_t vr_id, char ∗vrf_name, struct pal_in4_addr router_id)
- int **smi_pim6_api_router_id_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vr_id, char ∗vrf_name, bool_t router_id_provided, struct pal_in4_addr router_id)
- int **smi_pim6_api_embed_rp_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim6_api_embed_rp_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim6_api_join_prune_timer_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, u_int32_t joinPruneTime)
- int **smi_pim6_api_join_prune_timer_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim6_api_ignore_rp_set_priority_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim6_api_ignore_rp_set_priority_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim6_api_spt_switch_threshold_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗groupAccessCtrlListName)
- int **smi_pim6_api_spt_switch_threshold_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗groupAccessCtrlListName)
- int **smi_pim6_api_register_source_interface_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName)
- int **smi_pim6_api_register_source_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)

- int **smi_pim6_api_register_rate_limit_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerRateLimit)
- int **smi_pim6_api_register_rate_limit_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim6_api_register_rp_reachability_check_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim6_api_register_rp_reachability_check_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim6_api_rp_register_keep_alive_timer_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerKeepAliveTime)
- int **smi_pim6_api_rp_register_keep_alive_timer_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim6_api_register_suppression_time_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerSuppressTime)
- int **smi_pim6_api_register_suppression_time_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim6_api_rp_accept_register_filter_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int **smi_pim6_api_rp_accept_register_filter_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int **smi_pim6_api_rp_checksum_filter_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int **smi_pim6_api_rp_checksum_filter_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int **smi_pim6_api_bsr_interop_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim6_api_bsr_interop_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim6_api_bsr_candidate_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim6_api_bsr_candidate_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim6_api_bsr_candidate_hash_mask_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char hashMask)
- int **smi_pim6_api_bsr_candidate_hash_mask_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim6_api_bsr_candidate_priority_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char candidatePriority)
- int **smi_pim6_api_bsr_candidate_priority_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim6_api_rp_candidate_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

- int **smi_pim6_api_rp_candidate_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName)
- int **smi_pim6_api_rp_candidate_priority_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName, u_char candidatePriority)
- int **smi_pim6_api_rp_candidate_priority_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName)
- int **smi_pim6_api_crp_per_grp_chk_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, vrf_id_t vrfId, char ∗ifName, char ∗groupAccessCtrlListName)
- int **smi_pim6_api_rp_candidate_group_acl_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName, char ∗groupAccessCtrlListName)
- int **smi_pim6_api_rp_candidate_group_acl_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName)
- int **smi_pim6_api_rp_candidate_adv_interval_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName, u_int16_t candidateAdvertiseInterval)
- int **smi_pim6_api_rp_candidate_adv_interval_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName)
- int **smi_pim6_api_ssm_default_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim6_api_ssm_default_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim6_api_ssm_range_set_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗accessCtrlListOption)
- int **smi_pim6_api_ssm_range_unset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗accessCtrlListOption)
- int **smi_pim6_api_clear_bsr_rpset_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName)
- int **smi_pim_debug_ipv6_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, int debug)
- int **smi_pim_no_debug_ipv6_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, int debug)
- int **smi_pim6_api_register_source_interface_set_wrap_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗vrfName, char ∗ifName, u_int8_t registerInterface)
- int **smi_pim6_api_vif_mode_set_wrap_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int8_t mode, bool_t vifModeFlag)
- int **smi_pim6_api_vif_hello_interval_set_wrap_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int16_t helloInterval, bool_t vifHelloIntervalFlag)
- int **smi_pim6_api_vif_hello_holdtime_set_wrap_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int16_t helloHoldTimeInterval, bool_t vifHelloHoldTimeFlag)
- int **smi_pim6_api_vif_propagation_delay_set_wrap_validate** (struct smiclient_globals ∗azg, u_int32_t vrId, char ∗ifName, u_int16_t propagationDelay, bool_t vifPropagationDelayFlag)

- int **smi_pim6_api_vif_nbr_filter_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, char *neighborFilterName, bool_t vifNeighborFilterFlag)
- int **smi_pim6_api_vif_dr_priority_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t designatedRouterPriority, bool_t vifDesignatedRouterPriorityFlag)
- int **smi_pim6_api_vif_bsr_border_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifBootstrapRouterBorderFlag)
- int **smi_pim6_api_vif_exclude_genid_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifExcludeGenIdFlag)
- int **smi_pim6_api_vif_unicast_bsm_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifUnicastBootstrapMechanismFlag)
- int **smi_pim6_api_vif_passive_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifPassiveFlag)
- int **smi_pim6_api_bsr_candidate_hash_mask_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char hashMask, bool_t bootstrapCandidateHashMaskFlag)
- int **smi_pim6_api_bsr_candidate_priority_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char candidatePriority, bool_t bootstrapRouterCandidatePriorityFlag)
- int **smi_pim6_api_rp_candidate_priority_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char candidatePriority, bool_t rendezvousPointCandidatePriorityFlag)
- int **smi_pim6_api_rp_candidate_group_acl_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, char *groupAccessCtrlListName, bool_t rendezvousPointCandidateGroupFlag)
- int **smi_pim6_api_rp_candidate_adv_interval_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_int16_t candidateAdvertiseInterval, bool_t rendezvousPointCandidateAdvertiseIntervalFlag)
- int **smi_pim6_api_ssm_range_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption, u_int8_t ssmRangeFlag)
- int **smi_pim6_debug_ip_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, int debug, bool_t debugFlag)
- int smi_pim6_api_vif_mode_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int8_t mode)

  This function configures the PIM mode on the VIF interface ifName.

- int smi_pim6_api_vif_mode_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int8_t mode)

  This function removes the configured PIM mode from a VIF interface.

- int smi_pim6_api_vif_passive_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This function configures the PIM VIF interface as a passive interface which essentially stops PIM transactions on the interface ifName and allows only IGMP mechanism to be active.

- int smi_pim6_api_vif_passive_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes the configuration of a PIM VIF as a passive interface.

- int smi_pim6_api_vif_hello_interval_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t helloInterval)

  This function configures the PIM VIF hello interval value in seconds.

- int smi_pim6_api_vif_hello_interval_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes configuration of the PIM VIF hello interval seconds.

- int smi_pim6_api_vif_hello_holdtime_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t helloHoldTimeInterval)

  This function configures the PIM VIF hello holdtime seconds If value of sec is less than configured hello_interval , it will be refused.

- int smi_pim6_api_vif_hello_holdtime_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes configuration of the PIM VIF hello holdtime and return it to its default settings.

- int smi_pim6_api_vif_propagation_delay_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t propagationDelay)

  This function configures the PIM VIF propagation delay in millisecond.

- int smi_pim6_api_vif_propagation_delay_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes configuration of the PIM VIF propagation delay and return the value to its default settings.

- int smi_pim6_api_vif_nbr_filter_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, char *neighborFilterName)

  This function removes configuration of the PIM VIF neighbor filter access-list name.

- int smi_pim6_api_vif_state_refresh_originate_interval_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t stateRefreshOriginateInterval)

  This function configures the state refresh originate interval for PIM-DM.The origination interval is the number of seconds between PIM State Refresh control messages.

- int **smi_pim6_api_vif_state_refresh_originate_interval_unset** (struct smiclient_globals *azg, u_int32_t vr_id, char *ifname)

- int smi_pim6_api_vif_dr_priority_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t designatedRouterPriority)

  This function configures the PIM VIF designated router's priority value. When the interface is enabled, DR selection is also performed.

- int smi_pim6_api_vif_dr_priority_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes configuration of the PIM VIF designated router's priority and return it to its default setting.

- int smi_pim6_api_vif_exclude_genid_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function configures to exclude the GEN ID on the VIF.

- int smi_pim6_api_vif_exclude_genid_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes configuration to exclude the GEN ID on the VIF.

- int smi_pim6_api_vif_bsr_border_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function configures to BSR border on the VIF. It prevents bootstrap messages from being sent or received through an interface.

- int smi_pim6_api_vif_bsr_border_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes configuration to BSR border on the VIF.

- int smi_pim6_api_vif_unicast_bsm_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function configures to enable support for sending/receiving unicast Bootstrap Messages(BSM) on the specified interface.

- int smi_pim6_api_vif_unicast_bsm_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

  This function removes configuration to send the unicast BSM message on the interface.

- int **smi_pim6_api_router_id_set** (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, struct pal_in4_addr router_id)
- int **smi_pim6_api_router_id_unset** (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, bool_t router_id_provided, struct pal_in4_addr router_id)
- int smi_pim6_api_embed_rp_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

  This function configures embedded rendezvous point(RP).

- int smi_pim6_api_embed_rp_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This function removes configuration an embedded rendezvous point(RP).

- int smi_pim6_api_clear_bsr_rpset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

  This function clears the specified router as the candidate BSR rendezvous point(RP) set.

- int smi_pim_debug_ipv6 (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, int debug)

  Use this function to enable debugging in pim6.

- int smi_pim_no_debug_ipv6 (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, int debug)

  Use this function to enable debugging in pim6.

- int smi_pim6_show_pim_if_brief (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_if_brief_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_if_detail (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_if_detail_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_dm_if_brief (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_dm_if_brief_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

Shows the DM mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_dm_if_detail (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_dm_if_detail_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol.

- int smi_pim6_show_pim_nbr_brief (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_nbr_brief_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_custom_nbr_brief (struct smiclient_globals *azg, char *vrfName, char *ifName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_custom_nbr_brief_all (struct smiclient_globals *azg, char *vrfName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_nbr_detail (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_nbr_detail_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

Shows the ANY mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_custom_nbr_detail (struct smiclient_globals *azg, char *vrfName, char *ifName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_custom_nbr_detail_all (struct smiclient_globals *azg, char *vrfName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_nbr_brief (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_nbr_brief_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_custom_nbr_brief (struct smiclient_globals *azg, char *vrfName, char *ifName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_custom_nbr_brief_all (struct smiclient_globals *azg, char *vrfName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_nbr_detail (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_nbr_detail_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

Shows the DM mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_custom_nbr_detail (struct smiclient_globals *azg, char *vrfName, char *ifName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_dm_custom_nbr_detail_all (struct smiclient_globals *azg, char *vrfName, char *nbrIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the DM mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors.

- int smi_pim6_show_pim_local_members (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information about local membership for PIM interfaces, for the given interface of ANY mode.

- int smi_pim6_show_pim_local_members_all (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information about local membership for PIM interfaces, for all interfaces of ANY mode.

- int smi_pim6_show_pim_nexthop (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the nexthop information from NSM as used by PIM of ANY mode.

- int smi_pim6_show_pim_dm_nexthop (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the nexthop information from NSM as used by PIM of DM mode.

- int smi_pim6_show_pim_route_brief (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode information in the IP PIM multicast routing table, of ANY mode.

- int smi_pim6_show_pim_route_detail (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the ANY mode information in the IP PIM multicast routing table, of ANY mode.

- int smi_pim6_show_pim_dm_route (struct smiclient_globals *azg, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information in the IP PIM multicast routing table of DM mode .

- int smi_pim6_show_pim_route_group_brief (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *groupIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information in the IP PIM multicast routing table for the given matched group address only.

- int smi_pim6_show_pim_route_group_detail (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *groupIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information in the IP PIM multicast routing table for the given matched source address only.

- int smi_pim6_show_pim_route_source_brief (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *sourceIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information in the IP PIM multicast routing table for the given matched source address only.

- int smi_pim6_show_pim_route_source_detail (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *sourceIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information in the IP PIM multicast routing table for the given matched source address only.

- int smi_pim6_show_pim_route_source_group_brief (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *sourceIp, char *groupIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information in the IP PIM multicast routing table for the given matched group and source combination only.

- int smi_pim6_show_pim_route_source_group_detail (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *sourceIp, char *groupIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the information in the IP PIM multicast routing table for the given matched group and source combination only.

- int smi_pim6_show_pim_group_rp_mapping (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *groupIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the group to rendezvous point (RP) mappings of given group address.

- int smi_pim6_show_pim_rp_mapping (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

Shows the group to rendezvous point (RP) mappings of all group addresses, i.e all PIM route entries.

- int smi_pim6_show_pim_group_rp_hash (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, char *groupIp, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the rendezvous point (RP) to chose of given on group address.

- int smi_pim6_show_pim_bsr_router (struct smiclient_globals *azg, u_int32_t inVrId, char *vrfName, struct list *pimOutList, u_int32_t(*callbackFunc)(struct list *pimOutList))

  Shows the bootstrap router's information.

- int **smi_pim6_api_vif_nbr_filter_set** (struct smiclient_globals *azg, u_int32_t vr_id, char *ifname, char *filter)

2.1.1 Detailed Description

Provides API for managing PIMv6. The API provided in this file forms the basis of ZebOS PIMv6 management. These APIs are used by various north bound management interfaces like CLI, SNMP and SMI

2.1.2 Function Documentation

2.1.2.1 int smi_pim6_api_clear_bsr_rpset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *vrfName*)

This function clears the specified router as the candidate BSR rendezvous point(RP) set. smi_pim6_api_clear_bsr_rpset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***vrfName*** Name of the VPN routing/forwarding instance name

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VR
PIM_API_SET_ERR_WRONG_VRF PIM_API_SET_ERROR

2.1.2.2 int smi_pim6_api_embed_rp_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *vrfName*)

This function configures embedded rendezvous point(RP). smi_pim6_api_embed_rp_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***vrfId*** Name of the VPN routing/forwarding interfacen

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VR
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERROR

2.1.2.3 int smi_pim6_api_embed_rp_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *vrfName*)

This function removes configuration an embedded rendezvous point(RP). smi_pim6_-api_embed_rp_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***vrfId*** Name of the VPN routing/forwarding interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VR
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERROR

2.1.2.4 int smi_pim6_api_vif_bsr_border_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function configures to BSR border on the VIF. It prevents bootstrap messages from being sent or received through an interface. smi_pim6_api_vif_bsr_border_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF

2.1.2.5 int smi_pim6_api_vif_bsr_border_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes configuration to BSR border on the VIF. smi_pim6_api_vif_-bsr_border_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.6 int smi_pim6_api_vif_dr_priority_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, u_int32_t *designatedRouterPriority*)

This function configures the PIM VIF designated router's priority value. When the interface is enabled, DR selection is also performed. smi_pim6_api_vif_dr_priority_-set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

← ***designatedRouterPriority*** DR priority value numeric <0-4294967294> @return PIM_API_SET_SUCCESS on success, otherwise one of the following error codes

PIM_API_SET_ERR_WRONG_VALUE

PIM_API_SET_ERR_WRONG_VRF

2.1.2.7 int smi_pim6_api_vif_dr_priority_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes configuration of the PIM VIF designated router's priority and return it to its default setting. smi_pim6_api_vif_dr_priority_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.8 int smi_pim6_api_vif_exclude_genid_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function configures to exclude the GEN ID on the VIF. smi_pim6_api_vif_-exclude_genid_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF

2.1.2.9 int smi_pim6_api_vif_exclude_genid_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes configuration to exclude the GEN ID on the VIF. smi_pim6_-api_vif_exclude_genid_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.10 int smi_pim6_api_vif_hello_holdtime_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, u_int16_t *helloHoldTimeInterval*)

This function configures the PIM VIF hello holdtime seconds If value of sec is less than configured hello_interval , it will be refused. smi_pim6_api_vif_hello_holdtime_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

← ***helloHoldTimeInterval*** Hello hold time in second numeric <1-65535>

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF

2.1.2.11 int smi_pim6_api_vif_hello_holdtime_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes configuration of the PIM VIF hello holdtime and return it to its default settings. smi_pim6_api_vif_hello_holdtime_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.12 int smi_pim6_api_vif_hello_interval_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, u_int16_t *helloInterval*)

This function configures the PIM VIF hello interval value in seconds. smi_pim6_api_-vif_hello_interval_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router id <0-255>

← ***ifName*** Name of the interface

← ***helloInterval*** Hello interval is in seconds numeric <1-65535>

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_HELLO_HOLDTIME_EXCEED

2.1.2.13 int smi_pim6_api_vif_hello_interval_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes configuration of the PIM VIF hello interval seconds. smi_pim6_api_vif_hello_interval_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.14 int smi_pim6_api_vif_mode_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, u_int8_t *mode*)

This function configures the PIM mode on the VIF interface ifName. smi_pim6_api_vif_mode_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

← ***mode*** PIM mode <0-4>

0-PIM_API_MODE_INVALID, 1-PIM_API_MODE_DENSE -PIM_API_MODE_SPARSE, 3-PIM_API_MODE_ANY

4-PIM_API_MODE_MAX

Returns:

0 on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERROR

2.1.2.15 int smi_pim6_api_vif_mode_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, u_int8_t *mode*)

This function removes the configured PIM mode from a VIF interface. smi_pim6_-api_vif_mode_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

← ***mode*** PIM mode <0-4>
0-PIM_API_MODE_INVALID
1-PIM_API_MODE_DENSE
2-PIM_API_MODE_SPARSE
3-PIM_API_MODE_ANY
4-PIM_API_MODE_MAX

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST
PIM_API_SET_ERR_MODE_MIS_MATCH
PIM_API_SET_ERR_VIF_SOCKET_LEAVE_ERROR

2.1.2.16 int smi_pim6_api_vif_nbr_filter_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, char * *neighborFilterName*)

This function removes configuration of the PIM VIF neighbor filter access-list name. smi_pim6_api_vif_nbr_filter_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

← ***neighborFilterName*** Name of the Access-list to be used as a neighbor filter (numeric <1-99> | Word)

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST
PIM_API_SET_ERROR

2.1.2.17 int smi_pim6_api_vif_passive_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function configures the PIM VIF interface as a passive interface which essentially stops PIM transactions on the interface ifName and allows only IGMP mechanism to be active. smi_pim6_api_vif_passive_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_SOCKET_LEAVE_ERROR
PIM_API_SET_ERROR

2.1.2.18 int smi_pim6_api_vif_passive_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes the configuration of a PIM VIF as a passive interface. smi_pim6_api_vif_passive_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_SOCKET_LEAVE_ERROR

2.1.2.19 int smi_pim6_api_vif_propagation_delay_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, u_int16_t *propagationDelay*)

This function configures the PIM VIF propagation delay in millisecond. smi_pim6_-api_vif_propagation_delay_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router Id

← ***ifName*** Name of the interface

← ***propagationDelay*** Propogation delay in milliseconds numeric <1000-5000>

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF

2.1.2.20 int smi_pim6_api_vif_propagation_delay_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes configuration of the PIM VIF propagation delay and return the value to its default settings. smi_pim6_api_vif_propagation_delay_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.21 int smi_pim6_api_vif_state_refresh_originate_interval_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*, u_int16_t *stateRefreshOriginateInterval*)

This function configures the state refresh originate interval for PIM-DM.The origination interval is the number of seconds between PIM State Refresh control messages. smi_pim6_api_vif_state_refresh_originate_interval_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

← ***stateRefreshOriginateinterval*** State refresh interval in seconds numeric <1 - 100>

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF

2.1.2.22 int smi_pim6_api_vif_unicast_bsm_set (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function configures to enable support for sending/receiving unicast Bootstrap Messages(BSM) on the specified interface. smi_pim6_api_vif_unicast_bsm_set

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF

2.1.2.23 int smi_pim6_api_vif_unicast_bsm_unset (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *ifName*)

This function removes configuration to send the unicast BSM message on the interface. smi_pim6_api_vif_unicast_bsm_unset

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router ID numeric <0-255>

← ***ifName*** Name of the interface

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_WRONG_VRF
PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.24 int smi_pim6_show_pim_bsr_router (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the bootstrap router's information. smi_pim6_show_pim_bsr_router

Parameters:

← ***azg*** Pointer to the SMI client global structure
← ***vrId*** Virtual Router ID <0-255>
← ***[Optional]vrfName*** VRF name
→ ***pimOutList*** Pointer to linked list of structure pim6RpHashEntry
← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.25 int smi_pim6_show_pim_custom_nbr_brief (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, char * *nbrIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_custom_nbr_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure
← ***[Optional]vrfName*** VRF name {NAME|all|default}
← ***ifName*** Interface name
← ***nbrIp*** Nieghbor address in A.B.C.D format.
→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief
← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.26 int smi_pim6_show_pim_custom_nbr_brief_all (struct smiclient_globals * *azg*, char * *vrfName*, char * *nbrIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_custom_nbr_brief_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***nbrIp*** Nieghbor address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.27 int smi_pim6_show_pim_custom_nbr_detail (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, char * *nbrIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_custom_nbr_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

← ***nbrIp*** Nieghbor address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.28 int smi_pim6_show_pim_custom_nbr_detail_all (struct smiclient_globals * *azg*, char * *vrfName*, char * *nbrIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_custom_nbr_detail_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***nbrIp*** Nieghbor address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.29 int smi_pim6_show_pim_dm_custom_nbr_brief (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, char * *nbrIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_dm_custom_nbr_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

← ***nbrIp*** Nieghbor address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.30 int smi_pim6_show_pim_dm_custom_nbr_brief_all (struct smiclient_globals * *azg*, char * *vrfName*, char * *nbrIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_dm_custom_nbr_brief_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***nbrIp*** Nieghbor address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.31 int smi_pim6_show_pim_dm_custom_nbr_detail (struct smiclient_globals ∗ *azg*, char ∗ *vrfName*, char ∗ *ifName*, char ∗ *nbrIp*, struct list ∗ *pimOutList*, u_int32_t(∗)(struct list ∗pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_dm_custom_nbr_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

← ***nbrIp*** Nieghbor address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.32 int smi_pim6_show_pim_dm_custom_nbr_detail_all (struct smiclient_globals ∗ *azg*, char ∗ *vrfName*, char ∗ *nbrIp*, struct list ∗ *pimOutList*, u_int32_t(∗)(struct list ∗pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. smi_pim6_show_-pim_dm_custom_nbr_detail_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***nbrIp*** Nieghbor address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.33 int smi_pim6_show_pim_dm_if_brief (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_dm_if_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6DmIfEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.34 int smi_pim6_show_pim_dm_if_brief_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_dm_if_brief_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6DmIfEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.35 int smi_pim6_show_pim_dm_if_detail (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_dm_if_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6DmIfEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.36 int smi_pim6_show_pim_dm_if_detail_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_dm_if_detail_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6IDmfEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.37 int smi_pim6_show_pim_dm_nbr_brief (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_dm_nbr_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.38 int smi_pim6_show_pim_dm_nbr_brief_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_dm_nbr_brief_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.39 int smi_pim6_show_pim_dm_nbr_detail (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_dm_nbr_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.40 int smi_pim6_show_pim_dm_nbr_detail_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the DM mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_dm_nbr_detail_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.41 int smi_pim6_show_pim_dm_nexthop (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the nexthop information from NSM as used by PIM of DM mode. smi_pim6_-show_pim_dm_nexthop

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6NexthopEntry

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.42 int smi_pim6_show_pim_dm_route (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information in the IP PIM multicast routing table of DM mode . smi_pim6_-show_pim_dm_route

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.43 int smi_pim6_show_pim_group_rp_hash (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, char * *groupIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the rendezvous point (RP) to chose of given on group address. smi_pim6_-show_pim_group_rp_hash

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID <0-255>

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***groupIp*** Group address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6RpHashEntry

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.44 int smi_pim6_show_pim_group_rp_mapping (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, char * *groupIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the group to rendezvous point (RP) mappings of given group address. smi_-pim6_show_pim_group_rp_mapping

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID <0-255>

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***groupIp*** Group address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6GroupRpMapping

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.45 int smi_pim6_show_pim_if_brief (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_if_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6IfEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.46 int smi_pim6_show_pim_if_brief_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_if_brief_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6IfEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.47 int smi_pim6_show_pim_if_detail (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_if_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6IfEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.48 int smi_pim6_show_pim_if_detail_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol. smi_pim6_show_pim_if_detail_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6IfEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.49 int smi_pim6_show_pim_local_members (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information about local membership for PIM interfaces, for the given interface of ANY mode. smi_pim6_show_pim_local_members

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name.

→ ***pimOutList*** Pointer to linked list of structure pim6LocalMembersEntry

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.50 int smi_pim6_show_pim_local_members_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information about local membership for PIM interfaces, for all interfaces of ANY mode. smi_pim6_show_pim_local_members_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6LocalMembersEntry

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.51 int smi_pim6_show_pim_nbr_brief (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_nbr_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.52 int smi_pim6_show_pim_nbr_brief_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_nbr_brief_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.53 int smi_pim6_show_pim_nbr_detail (struct smiclient_globals * *azg*, char * *vrfName*, char * *ifName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_nbr_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.54 int smi_pim6_show_pim_nbr_detail_all (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors. smi_pim6_show_pim_nbr_detail_all

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***ifName*** Interface name

→ ***pimOutList*** Pointer to linked list of structure pim6NbrEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.55 int smi_pim6_show_pim_nexthop (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the nexthop information from NSM as used by PIM of ANY mode. smi_pim6_-show_pim_nexthop

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6NexthopEntry

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.56 int smi_pim6_show_pim_route_brief (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode information in the IP PIM multicast routing table, of ANY mode. smi_pim6_show_pim_route_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.57 int smi_pim6_show_pim_route_detail (struct smiclient_globals * *azg*, char * *vrfName*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the ANY mode information in the IP PIM multicast routing table, of ANY mode. smi_pim6_show_pim_route_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***[Optional]vrfName*** VRF name {NAME|all|default}

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.58 int smi_pim6_show_pim_route_group_brief (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, char * *groupIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information in the IP PIM multicast routing table for the given matched group address only. smi_pim6_show_pim_route_group_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID <0-255>

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***groupIp*** Group address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.59 int smi_pim6_show_pim_route_group_detail (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, char * *groupIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information in the IP PIM multicast routing table for the given matched source address only. smi_pim6_show_pim_route_group_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID <0-255>

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***groupIp*** Group address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.60 int smi_pim6_show_pim_route_source_brief (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, char * *sourceIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information in the IP PIM multicast routing table for the given matched source address only. smi_pim6_show_pim_route_source_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID <0-255>

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***sourceIp*** Source address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.61 int smi_pim6_show_pim_route_source_detail (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, char * *sourceIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information in the IP PIM multicast routing table for the given matched source address only. smi_pim6_show_pim_route_source_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID <0-255>

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***sourceIp*** Source address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryDetail

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.62 int smi_pim6_show_pim_route_source_group_brief (struct smiclient_globals * *azg*, u_int32_t *inVrId*, char * *vrfName*, char * *sourceIp*, char * *groupIp*, struct list * *pimOutList*, u_int32_t(*)(struct list *pimOutList) *callbackFunc*)

Shows the information in the IP PIM multicast routing table for the given matched group and source combination only. smi_pim6_show_pim_route_source_group_brief

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual Router ID <0-255>

← ***[Optional]vrfName*** VRF name {NAME|all|default}

← ***sourceIp*** Source address in A.B.C.D format.

← ***groupIp*** Group address in A.B.C.D format.

→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryBrief

← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.63 int smi_pim6_show_pim_route_source_group_detail (struct smiclient_globals ∗ *azg*, u_int32_t *inVrId*, char ∗ *vrfName*, char ∗ *sourceIp*, char ∗ *groupIp*, struct list ∗ *pimOutList*, u_int32_t(∗)(struct list ∗pimOutList) *callbackFunc*)

Shows the information in the IP PIM multicast routing table for the given matched group and source combination only. smi_pim6_show_pim_route_source_group_detail

Parameters:

← ***azg*** Pointer to the SMI client global structure
← ***vrId*** Virtual Router ID <0-255>
← ***[Optional]vrfName*** VRF name {NAME|all|default}
← ***sourceIp*** Source address in A.B.C.D format.
← ***groupIp*** Group address in A.B.C.D format.
→ ***pimOutList*** Pointer to linked list of structure pim6RouteEntryDetail
← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.64 int smi_pim6_show_pim_rp_mapping (struct smiclient_globals ∗ *azg*, u_int32_t *inVrId*, char ∗ *vrfName*, struct list ∗ *pimOutList*, u_int32_t(∗)(struct list ∗pimOutList) *callbackFunc*)

Shows the group to rendezvous point (RP) mappings of all group addresses, i.e all PIM route entries. smi_pim6_show_pim_rp_mapping

Parameters:

← ***azg*** Pointer to the SMI client global structure
← ***vrId*** Virtual Router ID <0-255>
← ***[Optional]vrfName*** VRF name {NAME|all|default}
→ ***pimOutList*** Pointer to linked list of structure pim6GroupRpMapping
← ***callbackFunc*** Callback func pointer

Returns:

0 on success, otherwise one of the following error codes
RESULT_ERROR

2.1.2.65 int smi_pim_debug_ipv6 (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *vrfName*, int *debug*)

Use this function to enable debugging in pim6. smi_pim_debug_ipv6

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router id

← ***vrfName*** VRF NAME. Pass Null in case of default VRF

← ***debug*** Pass debug flag as following:

SMI_PIM6_DEBUG_ALL - All PIM events

SMI_PIM6_DEBUG_NSM - All NSM events

SMI_PIM6_DEBUG_STATE - Debugging of PIM state

SMI_PIM6_DEBUG_EVENTS - Debugging of PIM event

SMI_PIM6_DEBUG_PACKET - Debugging of all PIM packets

SMI_PIM6_DEBUG_PACKET_IN - Debugging of incoming PIM packets

SMI_PIM6_DEBUG_PACKET_OUT - Debugging of outgoing PIM packets

SMI_PIM6_DEBUG_NEXTHOP - Debugging of Reverse Path Forwarding nexthop cache handing

SMI_PIM6_DEBUG_MFC - Debugging for MFC updates

SMI_PIM6_DEBUG_MIB - Debugging of MIB entries

SMI_PIM6_DEBUG_MTRACE - Debugging of MTRACE messages

SMI_PIM6_DEBUG_TIMER - Debugging of timers

SMI_PIM6_DEBUG_TIMER_HELLO - Debugging of the hello timers

SMI_PIM6_DEBUG_TIMER_HELLO_HT - Debugging of hello timers

SMI_PIM6_DEBUG_TIMER_HELLO_NLT - Debugging of neighbor_-liveliness hello timer

SMI_PIM6_DEBUG_TIMER_HELLO_THT - Debugging of triggered hello timer

SMI_PIM6_DEBUG_TIMER_JOINPRUNE - Debugging of all join/prune timers

SMI_PIM6_DEBUG_TIMER_JOINPRUNE_JT - Debugging of the join/prune timers

SMI_PIM6_DEBUG_TIMER_JOINPRUNE_ET - Debugging of the join/prune expiration timer

SMI_PIM6_DEBUG_TIMER_JOINPRUNE_PPT - Debugging of the join/prune pending set

SMI_PIM6_DEBUG_TIMER_JOINPRUNE_KAT - Debugging of the join/prune keepalive timer

SMI_PIM6_DEBUG_TIMER_JOINPRUNE_OT - Debugging of the join/prune upstream override timer

SMI_PIM6_DEBUG_TIMER_ASSERT - Debugging of all assert timers

SMI_PIM6_DEBUG_TIMER_ASSERT_AT - Debugging of PIM assert timer

SMI_PIM6_DEBUG_TIMER_REGISTER - Debugging of the Register timers
SMI_PIM6_DEBUG_TIMER_REGISTER_RST - Debugging of the Register stop timer
SMI_PIM6_DEBUG_TIMER_BSR - Debugging of the Bootstrap Router timers
SMI_PIM6_DEBUG_TIMER_BSR_BST - Debugging of the BSR timer
SMI_PIM6_DEBUG_TIMER_BSR_CRP - Debugging of the BSR candidate-RP timer

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VR
PIM_API_SET_ERR_WRONG_VRF

2.1.2.66 int smi_pim_no_debug_ipv6 (struct smiclient_globals * *azg*, u_int32_t *vrId*, char * *vrfName*, int *debug*)

Use this function to enable debugging in pim6. smi_pim_no_debug_ipv6

Parameters:

← ***azg*** Pointer to the SMI client global structure

← ***vrId*** Virtual router id

← ***vrfName*** VRF NAME. Pass Null in case of default VRF

← ***debug*** Pass debug flag as following:
SMI_PIM6_DEBUG_ALL - All PIM events
SMI_PIM6_DEBUG_NSM - All NSM events
SMI_PIM6_DEBUG_STATE - Debugging of PIM state
SMI_PIM6_DEBUG_EVENTS - Debugging of PIM event
SMI_PIM6_DEBUG_PACKET - Debugging of all PIM packets
SMI_PIM6_DEBUG_PACKET_IN - Debugging of incoming PIM packets
SMI_PIM6_DEBUG_PACKET_OUT - Debugging of outgoing PIM packets
SMI_PIM6_DEBUG_NEXTHOP - Debugging of Reverse Path Forwarding nexthop cache handing
SMI_PIM6_DEBUG_MFC - Debugging for MFC updates
SMI_PIM6_DEBUG_MIB - Debugging of MIB entries
SMI_PIM6_DEBUG_MTRACE - Debugging of MTRACE messages
SMI_PIM6_DEBUG_TIMER - Debugging of timers
SMI_PIM6_DEBUG_TIMER_HELLO - Debugging of the hello timers
SMI_PIM6_DEBUG_TIMER_HELLO_HT - Debugging of hello timers
SMI_PIM6_DEBUG_TIMER_HELLO_NLT - Debugging of neighbor_-liveliness hello timer
SMI_PIM6_DEBUG_TIMER_HELLO_THT - Debugging of triggered hello timer

SMI_PIM6_DEBUG_TIMER_JOINPRUNE - Debugging of all join/prune timers
SMI_PIM6_DEBUG_TIMER_JOINPRUNE_JT - Debugging of the join/prune timers
SMI_PIM6_DEBUG_TIMER_JOINPRUNE_ET - Debugging of the join/prune expiration timer
SMI_PIM6_DEBUG_TIMER_JOINPRUNE_PPT - Debugging of the join/prune pending set
SMI_PIM6_DEBUG_TIMER_JOINPRUNE_KAT - Debugging of the join/prune keepalive timer
SMI_PIM6_DEBUG_TIMER_JOINPRUNE_OT - Debugging of the join/prune upstream override timer
SMI_PIM6_DEBUG_TIMER_ASSERT - Debugging of all assert timers
SMI_PIM6_DEBUG_TIMER_ASSERT_AT - Debugging of PIM assert timer
SMI_PIM6_DEBUG_TIMER_REGISTER - Debugging of the Register timers
SMI_PIM6_DEBUG_TIMER_REGISTER_RST - Debugging of the Register stop timer
SMI_PIM6_DEBUG_TIMER_BSR - Debugging of the Bootstrap Router timers
SMI_PIM6_DEBUG_TIMER_BSR_BST - Debugging of the BSR timer
SMI_PIM6_DEBUG_TIMER_BSR_CRP - Debugging of the BSR candidate-RP timer

Returns:

PIM_API_SET_SUCCESS on success, otherwise one of the following error codes
PIM_API_SET_ERR_WRONG_VR
PIM_API_SET_ERR_WRONG_VRF

Index