ZebOS-XP PIM4 SMI Reference IP Infusion Inc.

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Chapter 1

File Index

1.1 File List

Here is a list of all documented files with brief descriptions:	
smi_pim4.h (The API functions documented in this chapter are called by the	
PIM IPv4 CLI commands)	

2 File Index

Chapter 2

File Documentation

2.1 smi_pim4.h File Reference

The API functions documented in this chapter are called by the PIM IPv4 CLI commands. #include "smi_client.h"

```
#include "smi_pim4_msg.h"
```

Functions

- int **smi_pim4_api_vif_mode_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int8_t mode)
- int **smi_pim4_api_vif_mode_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int8_t mode)
- int **smi_pim4_api_vif_passive_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_passive_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_hello_interval_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t helloInterval)
- int **smi_pim4_api_vif_hello_interval_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_hello_holdtime_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t helloHoldtimeInterval)
- int smi_pim4_api_vif_hello_holdtime_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_propagation_delay_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t propagationDelay)
- int smi_pim4_api_vif_propagation_delay_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int smi_pim4_api_vif_nbr_filter_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, char *neighborFilterName)

• int **smi_pim4_api_vif_nbr_filter_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, char *neighborFilterName)

- int smi_pim4_api_vif_state_refresh_originate_interval_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t stateRefreshO-riginateInterval)
- int smi_pim4_api_vif_state_refresh_originate_interval_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_dr_priority_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t designatedRouterPriority)
- int **smi_pim4_api_vif_dr_priority_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_exclude_genid_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_exclude_genid_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_bsr_border_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_bsr_border_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_unicast_bsm_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_api_vif_unicast_bsm_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)
- int **smi_pim4_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_pim4_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_pim4_api_static_rp_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr *rendezvousPointAddr, char *accessCtrlListOption, bool_t overrideFlag)
- int **smi_pim4_api_static_rp_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr *rendezvousPointAddr)
- int **smi_pim4_api_anycast_rp_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr anycastRendezvousPointAddr, struct pal_in4_addr memberRendezvousPointAddr)
- int smi_pim4_api_anycast_rp_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr anycastRendezvous-PointAddr, struct pal_in4_addr memberRendezvousPointAddr)
- int smi_pim4_api_anycast_rp_unset_sdkapi_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *anycastRendezvousPointAddr, char *memberRendezvousPointAddr)

This function validates unconfiguration of PIM anycast RP.

- int **smi_pim4_api_join_prune_timer_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int32_t joinPruneTime)
- int **smi_pim4_api_join_prune_timer_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

- int **smi_pim4_api_ignore_rp_set_priority_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim4_api_ignore_rp_set_priority_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int smi_pim4_api_spt_switch_threshold_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *groupAccessCtrlListName)
- int smi_pim4_api_spt_switch_threshold_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *groupAccessCtrlListName)
- int smi_pim4_api_register_source_address_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr *sourceAddr)
- int smi_pim4_api_register_source_interface_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim4_api_register_source_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim4_api_register_rate_limit_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerRateLimit)
- int **smi_pim4_api_register_rate_limit_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerRateLimit)
- int **smi_pim4_api_register_rp_reachability_check_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int smi_pim4_api_register_rp_reachability_check_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int smi_pim4_api_rp_register_keep_alive_timer_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t register-KeepAliveTime)
- int **smi_pim4_api_rp_register_keep_alive_timer_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim4_api_register_suppression_time_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerSuppressTime)
- int smi_pim4_api_register_suppression_time_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim4_api_rp_accept_register_filter_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int smi_pim4_api_rp_accept_register_filter_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int **smi_pim4_api_rp_checksum_filter_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int **smi_pim4_api_rp_checksum_filter_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int smi_pim4_api_bsr_interop_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim4_api_bsr_interop_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

• int **smi_pim4_api_bsr_candidate_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

- int **smi_pim4_api_bsr_candidate_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int smi_pim4_api_bsr_candidate_hash_mask_set_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u char hashMask)
- int **smi_pim4_api_bsr_candidate_priority_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char candidatePriority)
- int **smi_pim4_api_rp_candidate_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim4_api_rp_candidate_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim4_api_rp_candidate_priority_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, s_int32_t candidatePriority)
- int **smi_pim4_api_rp_candidate_priority_unset_validate** (struct smiclient_-globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim4_api_rp_candidate_group_acl_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, char *groupAccessCtrlListName)
- int smi_pim4_api_rp_candidate_group_acl_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim4_api_rp_candidate_adv_interval_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, s int32 t candidateAdvertiseInterval)
- int **smi_pim4_api_rp_candidate_adv_interval_unset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)
- int **smi_pim4_api_ssm_default_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)
- int **smi_pim4_api_ssm_default_unset_validate** (struct smiclient_globals *azg, u int32 t vrId, char *vrfName)
- int **smi_pim4_api_ssm_range_set_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int smi_pim4_api_ssm_range_unset_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)
- int **smi_pim4_api_ssm_range_custom_unset_validate** (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, char *acl_name)
- int **smi_pim4_api_clear_tib_validate** (struct smiclient_globals *azg, u_int32_t vrId, vrf_id_t vrfId, smi_pim_api_mode_t mode, struct pal_in4_addr *sourceAddr, struct pal_in4_addr *groupAddr, s_int16_t maskLength)
- int smi_pim4_api_clear_tib_sdkapi_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, smi_pim_api_mode_t mode, struct pal_in4_addr *sourceAddr, struct pal_in4_addr *groupAddr, s_int16_t maskLength)
- int **smi_pim4_api_clear_bsr_rpset_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

- int **smi_pim4_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_pim4_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_pim4_api_vif_hello_holdtime_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t helloHoldTimeInterval, bool_t vifHelloHoldFlag)
- int **smi_pim4_api_vif_propagation_delay_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t propagationDelay, bool_t vifPropDelayFlag)
- int **smi_pim4_api_vif_hello_interval_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t helloInterval, bool_t vifHelloIntervalFlag)
- int **smi_pim4_api_vif_nbr_filter_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, char *neighborFilterName, bool_t vifNeighborFilterFlag)
- int smi_pim4_api_vif_state_refresh_originate_interval_set_wrap_validate
 (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t
 stateRefreshOriginateInterval, bool t vifRefreshOriginateIntervalFlag)
- int smi_pim4_api_rp_register_keep_alive_timer_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t register-KeepAliveTime, bool_t registerKeepAliveTimerFlag)
- int smi_pim4_api_register_suppression_time_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerSuppressTime, bool_t registerSuppressTimeFlag)
- int smi_pim4_api_register_rp_reachability_check_set_wrap_validate
 (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, bool_t registerReachCheckFlag)
- int smi_pim4_api_vif_unicast_bsm_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifUnicastBootstrapMechanismFlag)
- int **smi_pim4_api_join_prune_timer_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int32_t joinPruneTime, bool_t joinPruneTimerFlag)
- int smi_pim4_api_rp_accept_register_filter_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption, bool t registerFilterFlag)
- int smi_pim4_api_rp_checksum_filter_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption, bool_t checksumFilterFlag)
- int **smi_pim4_api_bsr_interop_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int8_t bootstrapRouterInteropFlag)
- int **smi_pim4_api_vif_exclude_genid_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifExcludeGenIdFlag)
- int **smi_pim4_api_ignore_rp_set_priority_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int8_t ignor-eRendezvousPointPriorityFlag)

• int smi_pim4_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_pim4_api_static_rp_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption, bool_t overrideFlag, struct pal_in4_addr *rendezvousPointAddr, bool_t staticRendezvousPointFlag)
- int smi_pim4_api_spt_switch_threshold_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *groupAccessCtrlListName, bool_t systemPostureTokenSwitchThreshold-Flag)
- int **smi_pim4_api_vif_bsr_border_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifBootstrapRouterBorder-Flag)
- int smi_pim4_api_register_rate_limit_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerRateLimit, bool_t registerRateLimitFlag)
- int **smi_pim4_api_bsr_candidate_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, s_int32_t candidatePriority, s_int32_t hashMask, bool_t bootstrapRouterCandidateFlag)
- int smi_pim4_api_anycast_rp_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr anycastRendezvous-PointAddr, struct pal_in4_addr memberRendezvousPointAddr, bool_t anycastRendezvousPointFlag)
- int **smi_pim4_api_ssm_default_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int8_t ssmDefaultFlag)
- int smi_pim4_api_vif_passive_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, bool_t vifPassiveFlag)
- int smi_pim4_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_pim4_api_rp_candidate_adv_interval_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, s_int32_t candidateAdvertiseInterval, bool_t rendezvousPointCandidateAdvertiseIntervalFlag)
- int smi_pim4_api_ssm_range_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vr_id, char *vrfName, char *accessCtrlListOption, u_int8_t ssmRangeFlag)
- int **smi_pim4_api_rp_candidate_priority_set_wrap_validate** (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, s_int32_t candidatePriority, bool_t rendezvousPointCandidatePriorityFlag)
- int smi_pim4_api_rp_candidate_set_wrap_validate (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, bool_t bootStrapRouter-Flag, char *accessCtrlListOption, s_int32_t candidatePriority, s_int32_t rendezvousPointInterval, bool_t accessCtrlListFlag, bool_t rendezvousPointCandidateFlag)
- int smi_pim4_api_vif_mode_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int8_t mode)

This API configures the PIM mode on a virtual interface (VIF).

• int smi_pim4_api_vif_mode_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int8_t mode)

This API removes the PIM mode configuration from a VIF.

• int smi_pim4_api_vif_passive_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API configures a PIM virtual interface as passive.

int smi_pim4_api_vif_passive_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API removes the configuration for a passive PIM VIF.

• int smi_pim4_api_vif_hello_interval_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t helloInterval)

This API configures a PIM hello interval on a VIF.

• int smi_pim4_api_vif_hello_interval_unset (struct smiclient_globals *azg, u_int32 t vrId, char *ifName)

This API removes the configuration for a PIM hello interval on a VIF and resets the hello interval to its default value.

• int smi_pim4_api_vif_hello_holdtime_set (struct smiclient_globals *azg, u_int32 t vrId, char *ifName, u int32 t helloHoldtimeInterval)

This API configures a PIM hello holdtime, in seconds, for a VIF.

• int smi_pim4_api_vif_hello_holdtime_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API removes the configuration of the PIM hello holdtime from a VIF and resets it to its default value.

• int smi_pim4_api_vif_propagation_delay_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t propagationDelay)

This API configures the PIM propagation delay, in milliseconds, for a VIF.

• int smi_pim4_api_vif_propagation_delay_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API removes the PIM propagation delay from the VIF, and returns the value to its default setting.

• int smi_pim4_api_vif_nbr_filter_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, char *neighborFilterName)

This API configures a PIM neighbor filter access-list name for a VIF.

• int smi_pim4_api_vif_nbr_filter_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, char *neighborFilterName)

This API removes the configuration for a PIM VIF neighbor filter access-list name.

• int smi_pim4_api_vif_state_refresh_originate_interval_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int16_t stateRefreshOriginateInterval)

This API configures the state refresh that originates the interval for PIM-DM.

• int smi_pim4_api_vif_state_refresh_originate_interval_unset (struct smiclient_-globals *azg, u_int32_t vrId, char *ifName)

This API removes the configuration of the state-refresh interval for PIM-DM.

• int smi_pim4_api_vif_dr_priority_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName, u_int32_t designatedRouterPriority)

This API configures the priority for a PIM Designated Router (DR) on a VIF.

• int smi_pim4_api_vif_dr_priority_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API removes the PIM DR priority from the VIF and returns it to the default setting.

• int smi_pim4_api_vif_exclude_genid_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API configures PIM to exclude a generated ID on the VIF.

int smi_pim4_api_vif_exclude_genid_unset (struct smiclient_globals *azg, u_-int32_t vrId, char *ifName)

This API removes the configuration to exclude a generated ID on the VIF.

• int smi_pim4_api_vif_bsr_border_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API configures a BSR (bootstrap router) border on the VIF.

int smi_pim4_api_vif_bsr_border_unset (struct smiclient_globals *azg, u_-int32_t vrId, char *ifName)

This API removes configuration of a BSR border from the VIF.

• int smi_pim4_api_vif_unicast_bsm_set (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API removes the PIM configuration to send unicast BSM messages to the VIF.

• int smi_pim4_api_vif_unicast_bsm_unset (struct smiclient_globals *azg, u_int32_t vrId, char *ifName)

This API removes the PIM configuration to send unicast BSM messages to the VIF.

- int **smi_pim4_api_router_id_set** (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, struct pal_in4_addr router_id)
- int **smi_pim4_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_pim4_api_static_rp_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr *rendezvousPointAddr, char *accessCtrlListOption, bool_t overrideFlag, bool_t bidirFlag)

This API configures a static rendezvous point.

• int smi_pim4_api_static_rp_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr *rendezvousPointAddr)

This API removes configuration of a static rendezvous point.

int smi_pim4_api_anycast_rp_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr anycastRendezvousPointAddr, struct pal_in4_addr memberRendezvousPointAddr)

This API configures an anycast rendezvous point.

int smi_pim4_api_anycast_rp_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr anycastRendezvousPointAddr, struct pal_in4_addr memberRendezvousPointAddr)

This API removes configuration of an anycast RP.

• int smi_pim4_api_anycast_rp_unset_sdkapi (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *anycastRendezvousPointAddr, char *memberRendezvousPointAddr)

This API removes configuration of an anycast RP.

• int smi_pim4_api_join_prune_timer_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int32_t joinPruneTime)

This API configures a PIM join/prune timer and set its value.

• int smi_pim4_api_join_prune_timer_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API removes the configuration of a join/prune timer.

• int smi_pim4_api_ignore_rp_set_priority_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API configures PIM to ignore the RP priority while performing RP selection.

• int smi_pim4_api_ignore_rp_set_priority_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API removes the configuration for ignoring the RP priority with electing an RP.

• int smi_pim4_api_spt_switch_threshold_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *groupAccessCtrlListName)

This API configures an SPT (system posture token) switchover threshold. The group list ACL filters groups for which SPT switchover is performed.

• int smi_pim4_api_spt_switch_threshold_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *groupAccessCtrlListName)

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This API removes the configuration of an SPT switchover threshold.

• int smi_pim4_api_register_source_address_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, struct pal_in4_addr *sourceAddr)

This API configures the source address of Register messages.

• int smi_pim4_api_register_source_interface_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

This API sets the source address of Register messages to the address of the given interface.

• int smi_pim4_api_register_source_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API removes configuration of a source address for Register messages.

int smi_pim4_api_register_rate_limit_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerRateLimit)

This API configures the maximum number of Registers to generate for an (S,G).

• int smi_pim4_api_register_rate_limit_unset (struct smiclient_globals *azg, u_int32 t vrId, char *vrfName)

This API removes the configuration of a maximum number of register messages allowed for an (S,G).

• int smi_pim4_api_register_rp_reachability_check_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API configures an RP unicast reachability check in the Register state machine.

• int smi_pim4_api_register_rp_reachability_check_unset (struct smiclient_-globals *azg, u_int32_t vrId, char *vrfName)

This API removes configuration of an RP unicast reachability check in the Register state machine.

• int smi_pim4_api_rp_register_keep_alive_timer_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerKeepAliveTime)

This API configures the keepalive timer (KAT) value of (S,G) created by the RP by register messages.

• int smi_pim4_api_rp_register_keep_alive_timer_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API removes configuration of the KAT value of (S,G) created at the RP by Register messages. The KAT value is then reset to (Register Suppression Time * 3) + Register Probe Interval.

• int smi_pim4_api_register_suppression_time_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, u_int16_t registerSuppressTime)

This API configures the Register Suppression interval.

• int smi_pim4_api_register_suppression_time_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API removes the configuration of a register suppression interval.

• int smi_pim4_api_rp_accept_register_filter_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)

This API configures an ACL to filter sources allowed to register with this RP.

• int smi_pim4_api_rp_accept_register_filter_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)

This API removes the configuration of an ACL to filter sources allowed to register with this RP.

• int smi_pim4_api_rp_checksum_filter_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)

This API configures a Cisco-style Register checksum. The filter ACL controls the groups to which the checksum calculation applies.

• int smi_pim4_api_rp_checksum_filter_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)

This API removes configuration of a Cisco-style Register checksum.

• int smi_pim4_api_bsr_interop_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API configures bootstrap router interoperability.

• int smi_pim4_api_bsr_interop_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API removes configuration of BSR interoperability.

• int smi_pim4_api_bsr_candidate_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

This API sets the specified router as candidate BSR using the interface name as its address.

• int smi_pim4_api_bsr_candidate_hash_mask_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char hashMask)

This API configures the hash-mask length for a candidate BSR.

• int smi_pim4_api_bsr_candidate_priority_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, u_char candidatePriority)

This API configures the priority value for a candidate BSR.

• int smi_pim4_api_rp_candidate_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

This API configures an RP candidate set and sets its priority.

• int smi_pim4_api_rp_candidate_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

This API configures an RP candidate set and sets its priority.

• int smi_pim4_api_rp_candidate_priority_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, s_int32_t candidatePriority)

This API configures the priority of an RP candidate set.

• int smi_pim4_api_rp_candidate_priority_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

This API removes the configuration of a priority for an RP candidate set.

• int smi_pim4_api_rp_candidate_group_acl_set (struct smiclient_-globals *azg, u_int32_t vrId, char *vrfName, char *ifName, char *groupAccessCtrlListName)

This API configures a group range using an access control list for a candidate RP set.

• int smi_pim4_api_rp_candidate_group_acl_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

This API removes configuration of a group range for a candidate RP set.

• int smi_pim4_api_rp_candidate_adv_interval_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName, s_int32_t candidateAdvertiseInterval)

This API configures a candidate RP advertisement interval.

• int smi_pim4_api_rp_candidate_adv_interval_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *ifName)

This API removes a candidate RP advertisement interval.

• int smi_pim4_api_ssm_default_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API configures PIM SSM operation.

• int smi_pim4_api_ssm_default_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API removes the configuration for PIM SSM operation.

• int smi_pim4_api_ssm_range_set (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)

This API configures an SSM range using an access control list.

• int smi_pim4_api_ssm_range_unset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, char *accessCtrlListOption)

This API removes configuration of an SSM range using an ACL.

- int **smi_pim4_api_ssm_range_custom_unset** (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, char *acl_name)
- int smi_pim4_api_clear_tib (struct smiclient_globals *azg, u_int32_t vrId, vrf_-id_t vrfId, smi_pim_api_mode_t mode, struct pal_in4_addr *sourceAddr, struct pal_in4_addr *groupAddr)

This API clears all TIB states and MFC cache entries.

- int smi_pim4_api_clear_tib_sdkapi (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, smi_pim_api_mode_t mode, struct pal_in4_addr *sourceAddr, struct pal_in4_addr *groupAddr, s_int16_t maskLength)
- int smi_pim4_api_clear_bsr_rpset (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName)

This API clears the specified router as the candidate BSR RP set.

• int smi_pim_debug_ip (struct smiclient_globals *azg, u_int32_t vrId, char *vrfName, int debug)

Use this function to enable debugging in pim4.

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

Use this function to disable debugging in pim4.

• int smi_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_show_pim_dm_nbr_detail (struct smiclient_globals *azg, char *vrfName, char *ifName, struct list *pimOutList, u_int32_-t(*callbackFunc)(struct list *pimOutList))

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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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_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_pim4_api_crp_per_grp_chk (struct smiclient_globals *azg, u_int32_t vrId, vrf_id_t vrfId, char *ifName, char *groupAclName)

This API configures a group range for CRP.

2.1.1 Detailed Description

The API functions documented in this chapter are called by the PIM IPv4 CLI commands. The API provided in this file forms the basis of ZebOS pimv4 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_pim4_api_anycast_rp_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, struct pal_in4_addr anycastRendezvousPointAddr, struct pal_in4_addr memberRendezvousPointAddr)

This API configures an anycast rendezvous point. smi_pim4_api_anycast_rp_set

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← vrfName VPN routing/forwarding instance name
- → anycastRendezvousPointAddr Address of the anycast RP
- ightarrow *memberRendezvousPointAddr* Communication IP address between the configured RPs in the RP set

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 PIM_API_SET_ERR_WRONG_VALUE PIM_API_SET_ERR_RP_ANYCAST_SHOULD_BE_UNICAST PIM_API_SET_ERR_OUT_OF_MEMORY

2.1.2.2 int smi_pim4_api_anycast_rp_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, struct pal_in4_addr anycastRendezvousPointAddr, struct pal_in4_addr memberRendezvousPointAddr)

This API removes configuration of an anycast RP. smi_pim4_api_anycast_rp_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- → anycastRendezvousPointAddr Address of the anycast RP
- \rightarrow *memberRendezvousPointAddr* Communication IP address between the configured RPs in the RP set

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 PIM_API_SET_ERR_WRONG_VALUE PIM_API_SET_ERR_RP_ANYCAST_SHOULD_BE_UNICAST PIM_API_SET_ERR_RP_ANYCAST_NO_RP

2.1.2.3 int smi_pim4_api_anycast_rp_unset_sdkapi (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * anycastRendezvousPointAddr, char * memberRendezvousPointAddr)

This API removes configuration of an anycast RP. smi_pim4_api_anycast_rp_unset_sdkapi

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>

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- ← *vrfId* VPN routing/forwarding instance ID
- → anycastRendezvousPointAddr Address of the anycast RP
- → memberRendezvousPointAddr Communication IP address between the configured RPs in the RP set

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
PIM_API_SET_ERR_WRONG_VALUE
PIM_API_SET_ERR_RP_ANYCAST_SHOULD_BE_UNICAST
PIM_API_SET_ERR_RP_ANYCAST_NO_RP
```

2.1.2.4 int smi_pim4_api_anycast_rp_unset_sdkapi_validate (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * anycastRendezvousPointAddr, char * memberRendezvousPointAddr)

This function validates unconfiguration of PIM anycast RP. smi_pim4_api_anycast_rp_unset_sdkapi_validate

Parameters:

- ← azg Pointer to the SMI client global structure
- ← vr_id Virtual router id
- ← *vrf_name* VPN routing/forwarding Name
- \leftarrow any cast_rp_addr Any cast RP address
- ← member_rp_addr Member RP address

Returns:

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

2.1.2.5 int smi_pim4_api_bsr_candidate_hash_mask_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName, u_char hashMask)

This API configures the hash-mask length for a candidate BSR. smi_pim4_api_bsr_candidate_hash_mask_set

- \leftarrow azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>

- ← vrfId VPN routing/forwarding instance ID
- ← *ifName* Name of the interface

in hashMask Hash mask length used to hash for RPs

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_ERR_BSR_IFNAME_IS_REQUIRED
```

2.1.2.6 int smi_pim4_api_bsr_candidate_priority_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName, u_char candidatePriority)

This API configures the priority value for a candidate BSR. smi_pim4_api_bsr_candidate_priority_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *ifName* Name of the interface
- ← candidatePriority Priority value assigned to the BSR

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_ERR_BSR_IFNAME_IS_REQUIRED
```

2.1.2.7 int smi_pim4_api_bsr_candidate_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName)

This API sets the specified router as candidate BSR using the interface name as its address. smi_pim4_api_bsr_candidate_set

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← *ifName* Name of the interface

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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_ERR_BSR_IFNAME_IS_REQUIRED
```

2.1.2.8 int smi_pim4_api_bsr_interop_set (struct smiclient_globals * azg, u int32 t vrId, char * vrfName)

This API configures bootstrap router interoperability. smi_pim4_api_bsr_interop_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID

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
```

2.1.2.9 int smi_pim4_api_bsr_interop_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes configuration of BSR interoperability. smi_pim4_api_bsr_interop_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- $\leftarrow \textit{vrfId}$ VPN routing/forwarding instance ID

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
```

2.1.2.10 int smi_pim4_api_clear_bsr_rpset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API clears the specified router as the candidate BSR RP set. smi_pim4_api_clear_bsr_rpset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← *vrfName* 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
```

2.1.2.11 int smi_pim4_api_clear_tib (struct smiclient_globals * azg, u_int32_t vrId, vrf_id_t vrfId, smi_pim_api_mode_t mode, struct pal_in4_addr * sourceAddr, struct pal_in4_addr * groupAddr)

This API clears all TIB states and MFC cache entries. smi_pim4_api_clear_tib

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *mode* Mode of operation
- → sourceAddr Source IP address
- \rightarrow *groupAddr* Group IP address
- → maskLength Masklen

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 PIM_API_SET_ERR_INVALID_SOURCE_ADDRESS PIM_API_SET_ERR_INVALID_GROUP_ADDRESS
```

2.1.2.12 int smi_pim4_api_crp_per_grp_chk (struct smiclient_globals * azg, u_int32_t vrId, vrf_id_t vrfId, char * ifName, char * groupAclName)

This API configures a group range for CRP. smi_pim4_api_crp_per_grp_chk

- ← azg Pointer to the SMI client global structure
- ← *vr_id* Virtual router ID <0-255>

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- ← vrf id VPN routing/forwarding instance ID
- ← *ifname* Name of the interface
- ← *group_acl_name* Name of the ACL to use a the group range (Word)

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_CHECK_ERR_CRP_IF_OR_GROUP_IN_USED
```

2.1.2.13 int smi_pim4_api_ignore_rp_set_priority_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API configures PIM to ignore the RP priority while performing RP selection. smi_pim4_api_ignore_rp_set_priority_set

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID

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
```

2.1.2.14 int smi_pim4_api_ignore_rp_set_priority_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes the configuration for ignoring the RP priority with electing an RP. smi_pim4_api_ignore_rp_set_priority_unset

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID

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
```

2.1.2.15 int smi_pim4_api_join_prune_timer_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, u_int32_t joinPruneTime)

This API configures a PIM join/prune timer and set its value. smi_pim4_api_join_-prune_timer_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *joinPruneTime* Join/prune timer value, in seconds

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
```

2.1.2.16 int smi_pim4_api_join_prune_timer_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes the configuration of a join/prune timer. smi_pim4_api_join_prune_timer_unset

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- $\leftarrow \textit{vrfId}$ VPN routing/forwarding instance ID
- ← *joinPruneTime* Join/prune timer value, in seconds

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
```

2.1.2.17 int smi_pim4_api_register_rate_limit_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, u_int16_t registerRateLimit)

This API configures the maximum number of Registers to generate for an (S,G). smi_pim4_api_register_rate_limit_set

Parameters:

← azg Pointer to the SMI client global structure

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- \leftarrow *vrId* Virtual router ID <0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← registerRateLimit Maximum number of Register messages allowed, in packets per second numeric <1-65535>

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
```

2.1.2.18 int smi_pim4_api_register_rate_limit_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes the configuration of a maximum number of register messages allowed for an (S,G). smi_pim4_api_register_rate_limit_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← registerRateLimit Maximum number of Register messages allowed, in packets per second numeric <1-65535>

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
```

2.1.2.19 int smi_pim4_api_register_rp_reachability_check_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API configures an RP unicast reachability check in the Register state machine. smi_pim4_api_register_rp_reachability_check_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← *vrfId* VPN routing/forwarding instance ID

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
```

2.1.2.20 int smi_pim4_api_register_rp_reachability_check_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes configuration of an RP unicast reachability check in the Register state machine. smi_pim4_api_register_rp_reachability_check_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID

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
```

2.1.2.21 int smi_pim4_api_register_source_address_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, struct pal_in4_addr * sourceAddr)

This API configures the source address of Register messages. smi_pim4_api_register_source_address_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← sourceAddr IP address to use as the source address for Registers

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
```

2.1.2.22 int smi_pim4_api_register_source_interface_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName)

This API sets the source address of Register messages to the address of the given interface. smi_pim4_api_register_source_interface_set

Parameters:

← azg Pointer to the SMI client global structure

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- $\leftarrow vrId$ Virtual router ID <0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← *ifName* Register source interface 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

2.1.2.23 int smi_pim4_api_register_source_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes configuration of a source address for Register messages. smi_pim4_api_register_source_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *vrfName* VPN routing/forwarding instance name
- ← sourceAddr IP address to use as the source address for Registers
- ← *ifName* Register source interface 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
```

2.1.2.24 int smi_pim4_api_register_suppression_time_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, u_int16_t registerSuppressTime)

This API configures the Register Suppression interval. smi_pim4_api_register_suppression time set

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- \leftarrow registerSuppressTime Suppression timer value, in seconds numeric <1-65535>

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_ERR_REGISTER_SUPPRESSION_INVALID_TIME
```

2.1.2.25 int smi_pim4_api_register_suppression_time_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes the configuration of a register suppression interval. smi_pim4_api_register_suppression_time_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID

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
```

2.1.2.26 int smi_pim4_api_rp_accept_register_filter_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * accessCtrlListOption)

This API configures an ACL to filter sources allowed to register with this RP. smi_pim4_api_rp_accept_register_filter_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← accessCtrlListOption Access control list name (numeric <1-99> | Word)

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
```

2.1.2.27 int smi_pim4_api_rp_accept_register_filter_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * accessCtrlListOption)

This API removes the configuration of an ACL to filter sources allowed to register with this RP. smi_pim4_api_rp_accept_register_filter_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← accessCtrlListOption Access control list name (numeric <1-99> | Word)

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
```

2.1.2.28 int smi_pim4_api_rp_candidate_adv_interval_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName, s_int32_t candidateAdvertiseInterval)

This API configures a candidate RP advertisement interval. smi_pim4_api_rp_candidate_adv_interval_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *ifName* Name of the interface
- ← candidateAdvertiseInterval The C-RP advertisement interval, in seconds

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
```

2.1.2.29 int smi_pim4_api_rp_candidate_adv_interval_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName)

This API removes a candidate RP advertisement interval. smi_pim4_api_rp_-candidate_adv_interval_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *ifName* Name of the 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
```

2.1.2.30 int smi_pim4_api_rp_candidate_group_acl_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName, char * groupAccessCtrlListName)

This API configures a group range using an access control list for a candidate RP set. smi_pim4_api_rp_candidate_group_acl_set

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *ifName* Name of the interface
- ← groupAccessCtrlListName Name of the ACL to use a the group range (Word)

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
```

2.1.2.31 int smi_pim4_api_rp_candidate_group_acl_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName)

This API removes configuration of a group range for a candidate RP set. smi_pim4_-api_rp_candidate_group_acl_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- ← vrfId VPN routing/forwarding instance ID

← *ifName* Name of the 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

2.1.2.32 int smi_pim4_api_rp_candidate_priority_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName, s_int32_t candidatePriority)

This API configures the priority of an RP candidate set. smi_pim4_api_rp_candidate_-priority_set

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← *ifName* Name of the interface
- ← candidatePriority Priority value of the RP candidate set

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
```

2.1.2.33 int smi_pim4_api_rp_candidate_priority_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName)

This API removes the configuration of a priority for an RP candidate set. smi_pim4_-api_rp_candidate_priority_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *ifName* Name of the 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
```

2.1.2.34 int smi_pim4_api_rp_candidate_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName)

This API configures an RP candidate set and sets its priority. smi_pim4_api_rp_candidate_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← *ifName* Name of the interface
- ← bootStrapRouterFlag Boolean for bsr option in CLIs

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
```

2.1.2.35 int smi_pim4_api_rp_candidate_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * ifName)

This API configures an RP candidate set and sets its priority. smi_pim4_api_rp_candidate_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- *← ifName* Name of the interface
- ← accessCtrlListOption Name of the acess list
- \leftarrow *candidatePriority* Priority value of the rp-candidate
- ← rendezvousPointInterval Interval value of the rp-candidate
- \leftarrow access CtrlListFlag Access list flag for determining is prefix/access-list

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
```

2.1.2.36 int smi_pim4_api_rp_checksum_filter_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * accessCtrlListOption)

This API configures a Cisco-style Register checksum. The filter ACL controls the groups to which the checksum calculation applies. smi_pim4_api_rp_checksum_filter set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← *accessCtrlListOption* Access control list name(numeric <1-99> | numeric <1300-1999> | Word)

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
```

2.1.2.37 int smi_pim4_api_rp_checksum_filter_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * accessCtrlListOption)

This API removes configuration of a Cisco-style Register checksum. smi_pim4_api_rp_checksum_filter_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← *accessCtrlListOption* Access control list name (numeric <1-99> | numeric <1300-1999> | Word)

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_ERR_REGISTER_CHECKSUM_FILTER_INVALID_NAME
```

2.1.2.38 int smi_pim4_api_rp_register_keep_alive_timer_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, u_int16_t registerKeepAliveTime)

This API configures the keepalive timer (KAT) value of (S,G) created by the RP by register messages. smi_pim4_api_rp_register_keep_alive_timer_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← registerKeepAliveTime Keepalive-timer value, in seconds

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
```

2.1.2.39 int smi_pim4_api_rp_register_keep_alive_timer_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes configuration of the KAT value of (S,G) created at the RP by Register messages. The KAT value is then reset to (Register Suppression Time * 3) + Register Probe Interval. smi_pim4_api_rp_register_keep_alive_timer_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← vrfId VPN routing/forwarding instance ID

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
```

2.1.2.40 int smi_pim4_api_spt_switch_threshold_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * groupAccessCtrlListName)

This API configures an SPT (system posture token) switchover threshold. The group list ACL filters groups for which SPT switchover is performed. smi_pim4_api_spt_switch_threshold_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← groupAccessCtrlListName Name of the ACL to use as the group range (Word)

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
```

2.1.2.41 int smi_pim4_api_spt_switch_threshold_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * groupAccessCtrlListName)

This API removes the configuration of an SPT switchover threshold. smi_pim4_api_spt_switch_threshold_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- ← groupAccessCtrlListName Name of the ACL to use as the group range (Word)

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
```

2.1.2.42 int smi_pim4_api_ssm_default_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API configures PIM SSM operation. smi_pim4_api_ssm_default_set

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID

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
```

2.1.2.43 int smi_pim4_api_ssm_default_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName)

This API removes the configuration for PIM SSM operation. smi_pim4_api_ssm_-default_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID

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
```

2.1.2.44 int smi_pim4_api_ssm_range_set (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * accessCtrlListOption)

This API configures an SSM range using an access control list. smi_pim4_api_ssm_range_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← accessCtrlListOption Access control list name (numeric <1-99> | Word)

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
```

2.1.2.45 int smi_pim4_api_ssm_range_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, char * accessCtrlListOption)

This API removes configuration of an SSM range using an ACL. smi_pim4_api_ssm_range_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- $\leftarrow \textit{vrfId}$ VPN routing/forwarding instance ID
- ← accessCtrlListOption Access control list name (numeric <1-99> | Word)

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
```

2.1.2.46 int smi_pim4_api_static_rp_set (struct smiclient_globals * azg, u_int32_t vrld, char * vrfName, struct pal_in4_addr * rendezvousPointAddr, char * accessCtrlListOption, bool_t overrideFlag, bool_t bidirFlag)

This API configures a static rendezvous point. smi_pim4_api_static_rp_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- ← *vrfId* VPN routing/forwarding instance ID
- ← rendezvousPoint Addr Rendezvous point address
- ← accessCtrlListOption Name of ACL (access control list) to use
- ← overrideFlag Override flag
- ← *prefixCheckFlag* Group Prefix flag
- ← *bidir_flag* Mark the rp as bidir

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

2.1.2.47 int smi_pim4_api_static_rp_unset (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, struct pal_in4_addr * rendezvousPointAddr)

This API removes configuration of a static rendezvous point. smi_pim4_api_static_-rp_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 0-255>
- ← vrfId VPN routing/forwarding instance ID
- → rendezvousPointAddr Rendezvous point address

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 PIM_API_SET_ERR_RP_WRONG_ADDRESS

2.1.2.48 int smi_pim4_api_vif_bsr_border_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API configures a BSR (bootstrap router) border on the VIF. smi_pim4_api_vif_bsr_border_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 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
```

2.1.2.49 int smi_pim4_api_vif_bsr_border_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes configuration of a BSR border from the VIF. smi_pim4_api_vif_bsr_border_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 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
```

2.1.2.50 int smi_pim4_api_vif_dr_priority_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, u_int32_t designatedRouterPriority)

This API configures the priority for a PIM Designated Router (DR) on a VIF. smi_pim4_api_vif_dr_priority_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *ifName* Name of the interface

— designatedPriority The priority of the Designated Router value numeric <0-4294967294>

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

2.1.2.51 int smi_pim4_api_vif_dr_priority_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the PIM DR priority from the VIF and returns it to the default setting. smi_pim4_api_vif_dr_priority_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *ifName* Name of the interface
- ← designatedRouterPriority The priority of the Designated Router value numeric <0-4294967294>

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

2.1.2.52 int smi_pim4_api_vif_exclude_genid_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API configures PIM to exclude a generated ID on the VIF. smi_pim4_api_vif_exclude_genid_set

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- \leftarrow *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

2.1.2.53 int smi_pim4_api_vif_exclude_genid_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the configuration to exclude a generated ID on the VIF. smi_pim4_-api_vif_exclude_genid_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <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
```

2.1.2.54 int smi_pim4_api_vif_hello_holdtime_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, u_int32_t helloHoldtimeInterval)

This API configures a PIM hello holdtime, in seconds, for a VIF. smi_pim4_api_vif_hello holdtime set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *ifName* Name of the interface
- ← *helloHoldTimeInterval* Hello-holdtime interval in milliseconds <1000-65535001>

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_LESS
```

2.1.2.55 int smi_pim4_api_vif_hello_holdtime_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the configuration of the PIM hello holdtime from a VIF and resets it to its default value. smi_pim4_api_vif_hello_holdtime_unset

Parameters:

← azg Pointer to the SMI client global structure

- $\leftarrow vrId$ Virtual router ID <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
```

2.1.2.56 int smi_pim4_api_vif_hello_interval_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, u_int32_t helloInterval)

This API configures a PIM hello interval on a VIF. smi_pim4_api_vif_hello_interval_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- ← *ifName* Name of the interface
- ← *helloInterval* Hello intervals in milliseconds <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
```

2.1.2.57 int smi_pim4_api_vif_hello_interval_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the configuration for a PIM hello interval on a VIF and resets the hello interval to its default value. smi_pim4_api_vif_hello_interval_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *ifName* Name of the interface
- ← *helloInterval* Value of hello interval

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_COMMAND_NOT_CONFIGURED PIM_API_SET_ERR__NO_MATCH_FOR_CONFIGURED_VALUE PIM_API_SET_ERR_VIF_NOT_EXIST

2.1.2.58 int smi_pim4_api_vif_mode_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, u_int8_t mode)

This API configures the PIM mode on a virtual interface (VIF). smi_pim4_api_vif_mode set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vr \ Id \ Virtual router ID < 0-255 >$
- ← *ifName* Name of the interface
- ← *mode* PIM mode <0-4> enum(PIM_API_MODE_INVALID | PIM_API_MODE_DENSE | PIM_API_MODE_SPARSE | PIM_API_MODE_ANY | 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_ERROR

2.1.2.59 int smi_pim4_api_vif_mode_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, u_int8_t mode)

This API removes the PIM mode configuration from a VIF. smi_pim4_api_vif_mode_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <0-255>
- ← *ifName* Name of the interface
- ← *mode* PIM mode <0-4> enum(PIM_API_MODE_INVALID | PIM_API_MODE_DENSE | PIM_API_MODE_SPARSE | PIM_API_MODE_ANY | 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_ERROR

2.1.2.60 int smi_pim4_api_vif_nbr_filter_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, char * neighborFilterName)

This API configures a PIM neighbor filter access-list name for a VIF. smi_pim4_api_vif_nbr_filter_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <0-255>
- ← *ifName* Name of the interface
- ← *neighborFilterName* Name of the neighbor filter

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
```

2.1.2.61 int smi_pim4_api_vif_nbr_filter_unset (struct smiclient_globals * azg, u int32 t vrId, char * ifName, char * neighborFilterName)

This API removes the configuration for a PIM VIF neighbor filter access-list name. smi_pim4_api_vif_nbr_filter_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <0-255>
- ← *ifName* Name of the interface
- ← *neighborFilterName* Name of the neighbor filter (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
```

2.1.2.62 int smi_pim4_api_vif_passive_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API configures a PIM virtual interface as passive. smi_pim4_api_vif_passive_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID < 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
```

2.1.2.63 int smi_pim4_api_vif_passive_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the configuration for a passive PIM VIF. smi_pim4_api_vif_passive_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrId* Virtual router ID <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
```

2.1.2.64 int smi_pim4_api_vif_propagation_delay_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, u_int16_t propagationDelay)

This API configures the PIM propagation delay, in milliseconds, for a VIF. smi_pim4_-api_vif_propagation_delay_set

Parameters:

← azg Pointer to the SMI client global structure

- \leftarrow *vrId* Virtual router ID < 0-255>
- ← *ifName* Name of the interface
- ← propagationDelay Propagation delay in miliseconds 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
```

2.1.2.65 int smi_pim4_api_vif_propagation_delay_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the PIM propagation delay from the VIF, and returns the value to its default setting. smi_pim4_api_vif_propagation_delay_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- ← vrId Virtual router ID <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
```

2.1.2.66 int smi_pim4_api_vif_state_refresh_originate_interval_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName, u_int16_t stateRefreshOriginateInterval)

This API configures the state refresh that originates the interval for PIM-DM. smi_pim4_api_vif_state_refresh_originate_interval_set

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID < 0-255>
- ← *ifName* Name of the interface
- \leftarrow stateRefreshOriginateInterval State refresh original interval in seconds <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
```

2.1.2.67 int smi_pim4_api_vif_state_refresh_originate_interval_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the configuration of the state-refresh interval for PIM-DM. smi_pim4_api_vif_state_refresh_originate_interval_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <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
```

2.1.2.68 int smi_pim4_api_vif_unicast_bsm_set (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the PIM configuration to send unicast BSM messages to the VIF. smi_pim4_api_vif_unicast_bsm_set

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *vrId* Virtual router ID <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
```

2.1.2.69 int smi_pim4_api_vif_unicast_bsm_unset (struct smiclient_globals * azg, u_int32_t vrId, char * ifName)

This API removes the PIM configuration to send unicast BSM messages to the VIF. smi_pim4_api_vif_unicast_bsm_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ Virtual router ID <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

2.1.2.70 int smi_pim4_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_pim4_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 pim4RpHashEntry
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.71 int smi_pim4_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_pim4_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 pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

2.1.2.72 int smi_pim4_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_pim4_show_pim_custom_nbr_brief_all

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow [Optional]vrfName VRF name {NAME|all|default}
- ← *nbrIp* Nieghbor address in A.B.C.D format.
- → pimOutList Pointer to linked list of structure pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.73 int smi_pim4_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_pim4_show_pim_custom_nbr_detail

Parameters:

- \leftarrow 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 pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

2.1.2.74 int smi_pim4_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_pim4_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 pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

 $\boldsymbol{0}$ on success, otherwise one of the following error codes RESULT_ERROR

2.1.2.75 int smi_pim4_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_pim4_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 pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

 $\boldsymbol{0}$ on success, otherwise one of the following error codes RESULT_ERROR

2.1.2.76 int smi_pim4_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_pim4_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 pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.77 int smi_pim4_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_pim4_show_pim_dm_custom_nbr_detail

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow \textit{[Optional]vrfName} \ \ VRF \ name \ \{NAME|all|default\}$
- ← *ifName* Interface name
- \leftarrow *nbrIp* Nieghbor address in A.B.C.D format.
- → *pimOutList* Pointer to linked list of structure pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

2.1.2.78 int smi_pim4_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_pim4_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 pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.79 int smi_pim4_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_pim4_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 pim4DmIfEntryBrief
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.80 int smi_pim4_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_pim4_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 pim4DmIfEntryBrief
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.81 int smi_pim4_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_pim4_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 pim4DmIfEntryDetail
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.82 int smi_pim4_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_pim4_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 pim4IDmfEntryDetail

← *callbackFunc* Callback func pointer

Returns:

 $\boldsymbol{0}$ on success, otherwise one of the following error codes RESULT_ERROR

2.1.2.83 int smi_pim4_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_pim4_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 pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.84 int smi_pim4_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_pim4_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 pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

2.1.2.85 int smi_pim4_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_pim4_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 pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.86 int smi_pim4_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_pim4_show_pim_dm_nbr_detail_all

Parameters:

- ← azg Pointer to the SMI client global structure
- ← [Optional]vrfName VRF name {NAME|all|default}
- \leftarrow *ifName* Interface name
- → pimOutList Pointer to linked list of structure pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.87 int smi_pim4_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_pim4_-show_pim_dm_nexthop

Parameters:

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- ← azg Pointer to the SMI client global structure
- ← [Optional]vrfName VRF name {NAME|all|default}
- → pimOutList Pointer to linked list of structure pim4NexthopEntry
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.88 int smi_pim4_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 . $smi_pim4_-show_pim_dm_-route$

Parameters:

- ← azg Pointer to the SMI client global structure
- ← [Optional]vrfName VRF name {NAME|all|default}
- → pimOutList Pointer to linked list of structure pim4RouteEntryDetail
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.89 int smi_pim4_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_pim4_-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 pim4RpHashEntry
- \leftarrow callbackFunc Callback func pointer

Returns:

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

2.1.2.90 int smi_pim4_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_pim4_show_pim_group_rp_mapping

Parameters:

- ← azg Pointer to the SMI client global structure
- $\leftarrow vrId$ 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 pim4GroupRpMapping
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.91 int smi_pim4_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_pim4_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 pim4IfEntryBrief
- ← callbackFunc Callback func pointer

Returns:

2.1.2.92 int smi_pim4_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_pim4 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 pim4IfEntryBrief
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.93 int smi_pim4_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_pim4_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 pim4IfEntryDetail
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.94 int smi_pim4_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_pim4_show_pim_if_detail_all

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- ← [Optional]vrfName VRF name {NAME|all|default}
- → pimOutList Pointer to linked list of structure pim4IfEntryDetail
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.95 int smi_pim4_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_pim4_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 pim4LocalMembersEntry
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.96 int smi_pim4_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_pim4_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 pim4LocalMembersEntry
- ← callbackFunc Callback func pointer

Returns:

2.1.2.97 int smi_pim4_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_pim4_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 pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.98 int smi_pim4_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_pim4_show_pim_nbr_brief_all

Parameters:

- ← azg Pointer to the SMI client global structure
- ← [Optional]vrfName VRF name {NAME|all|default}
- \leftarrow *ifName* Interface name
- → pimOutList Pointer to linked list of structure pim4NbrEntryBrief
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.99 int smi_pim4_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_pim4_show_pim_nbr_detail

Parameters:

- \leftarrow 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 pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.100 int smi_pim4_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_pim4_show_pim_nbr_detail_all

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow [Optional]vrfName VRF name {NAME|all|default}
- ← *ifName* Interface name
- → *pimOutList* Pointer to linked list of structure pim4NbrEntryDetail
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.101 int smi_pim4_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_pim4_-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 pim4NexthopEntry
- ← callbackFunc Callback func pointer

Returns:

 $\boldsymbol{0}$ on success, otherwise one of the following error codes RESULT_ERROR

2.1.2.102 int smi_pim4_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_pim4_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 pim4RouteEntryBrief
- ← callbackFunc Callback func pointer

Returns:

 $\boldsymbol{0}$ on success, otherwise one of the following error codes RESULT_ERROR

2.1.2.103 int smi_pim4_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. $smi_pim4_show_pim_route_detail$

Parameters:

- ← azg Pointer to the SMI client global structure
- ← [Optional]vrfName VRF name {NAME|all|default}
- → pimOutList Pointer to linked list of structure pim4RouteEntryDetail
- ← callbackFunc Callback func pointer

Returns:

 $\boldsymbol{0}$ on success, otherwise one of the following error codes RESULT_ERROR

2.1.2.104 int smi_pim4_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_pim4_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 pim4RouteEntryBrief
- ← callbackFunc Callback func pointer

Returns:

0 on success, otherwise one of the following error codes RESULT ERROR

2.1.2.105 int smi_pim4_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_pim4_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 pim4RouteEntryDetail
- ← *callbackFunc* Callback func pointer

Returns:

2.1.2.106 int smi_pim4_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_pim4_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 pim4RouteEntryBrief
- ← *callbackFunc* Callback func pointer

Returns:

 $\boldsymbol{0}$ on success, otherwise one of the following error codes RESULT_ERROR

2.1.2.107 int smi_pim4_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_pim4_show_pim_route_source_detail

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *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 pim4RouteEntryDetail
- ← callbackFunc Callback func pointer

Returns:

2.1.2.108 int smi_pim4_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_pim4_show_pim_route_source_group_brief

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- $\leftarrow vrId$ 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 pim4RouteEntryBrief
- ← callbackFunc Callback func pointer

Returns:

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

2.1.2.109 int smi_pim4_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_pim4_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 pim4RouteEntryDetail
- ← callbackFunc Callback func pointer

Returns:

2.1.2.110 int smi_pim4_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_pim4_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 pim4GroupRpMapping
- \leftarrow callbackFunc Callback func pointer

Returns:

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

2.1.2.111 int smi_pim_debug_ip (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, int debug)

Use this function to enable debugging in pim4. smi_pim_debug_ip

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_PIM4_DEBUG_ALL All PIM events
 - SMI_PIM4_DEBUG_NSM All NSM events
 - SMI_PIM4_DEBUG_STATE Debugging of PIM state
 - SMI_PIM4_DEBUG_EVENTS Debugging of PIM event
 - SMI_PIM4_DEBUG_PACKET Debugging of all PIM packets
 - SMI_PIM4_DEBUG_PACKET_IN Debugging of incoming PIM packets
 - SMI_PIM4_DEBUG_PACKET_OUT Debugging of outgoing PIM packets
 - SMI_PIM4_DEBUG_NEXTHOP Debugging of Reverse Path Forwarding nexthop cache handing
 - SMI_PIM4_DEBUG_MFC Debugging for MFC updates
 - SMI_PIM4_DEBUG_MIB Debugging of MIB entries
 - SMI_PIM4_DEBUG_MTRACE Debugging of MTRACE messages
 - SMI_PIM4_DEBUG_TIMER Debugging of timers
 - SMI_PIM4_DEBUG_TIMER_HELLO Debugging of the hello timers

SMI_PIM4_DEBUG_TIMER_HELLO_HT - Debugging of hello timers

SMI_PIM4_DEBUG_TIMER_HELLO_NLT - Debugging of neighbor_liveliness hello timer

 $SMI_PIM4_DEBUG_TIMER_HELLO_THT - Debugging \ of \ triggered \ hellotimer$

SMI_PIM4_DEBUG_TIMER_JOINPRUNE - Debugging of all join/prune timers

SMI_PIM4_DEBUG_TIMER_JOINPRUNE_JT - Debugging of the join/prune timers

SMI_PIM4_DEBUG_TIMER_JOINPRUNE_ET - Debugging of the join/prune expiration timer

SMI_PIM4_DEBUG_TIMER_JOINPRUNE_PPT - Debugging of the join/prune pending set

SMI_PIM4_DEBUG_TIMER_JOINPRUNE_KAT - Debugging of the join/prune keepalive timer

SMI_PIM4_DEBUG_TIMER_JOINPRUNE_OT - Debugging of the join/prune upstream override timer

SMI_PIM4_DEBUG_TIMER_ASSERT - Debugging of all assert timers

SMI_PIM4_DEBUG_TIMER_ASSERT_AT - Debugging of PIM assert timer

SMI_PIM4_DEBUG_TIMER_REGISTER - Debugging of the Register timers

 $SMI_PIM4_DEBUG_TIMER_REGISTER_RST$ - Debugging of the Register stop timer

 $SMI_PIM4_DEBUG_TIMER_BSR$ - Debugging of the Bootstrap Router timers

SMI_PIM4_DEBUG_TIMER_BSR_BST - Debugging of the BSR timer SMI_PIM4_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

2.1.2.112 int smi_pim_no_debug_ip (struct smiclient_globals * azg, u_int32_t vrId, char * vrfName, int debug)

Use this function to disable debugging in pim4. smi_pim_no_debug_ip

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 PIM4 DEBUG ALL - All PIM events

SMI_PIM4_DEBUG_NSM - All NSM events

SMI_PIM4_DEBUG_STATE - Debugging of PIM state

SMI_PIM4_DEBUG_EVENTS - Debugging of PIM event

SMI_PIM4_DEBUG_PACKET - Debugging of all PIM packets

SMI_PIM4_DEBUG_PACKET_IN - Debugging of incoming PIM packets

SMI_PIM4_DEBUG_PACKET_OUT - Debugging of outgoing PIM packets

 $SMI_PIM4_DEBUG_NEXTHOP$ - Debugging of Reverse Path Forwarding nexthop cache handing

SMI_PIM4_DEBUG_MFC - Debugging for MFC updates

SMI_PIM4_DEBUG_MIB - Debugging of MIB entries

SMI_PIM4_DEBUG_MTRACE - Debugging of MTRACE messages

SMI_PIM4_DEBUG_TIMER - Debugging of timers

SMI PIM4 DEBUG TIMER HELLO - Debugging of the hello timers

SMI_PIM4_DEBUG_TIMER_HELLO_HT - Debugging of hello timers

SMI_PIM4_DEBUG_TIMER_HELLO_NLT - Debugging of neighbor_-liveliness hello timer

SMI_PIM4_DEBUG_TIMER_HELLO_THT - Debugging of triggered hello timer

SMI_PIM4_DEBUG_TIMER_JOINPRUNE - Debugging of all join/prune timers

 $SMI_PIM4_DEBUG_TIMER_JOINPRUNE_JT - Debugging \ of \ the \ join/prune timers$

 $SMI_PIM4_DEBUG_TIMER_JOINPRUNE_ET$ - Debugging of the join/prune expiration timer

 $SMI_PIM4_DEBUG_TIMER_JOINPRUNE_PPT$ - Debugging of the join/prune pending set

 $SMI_PIM4_DEBUG_TIMER_JOINPRUNE_KAT$ - Debugging of the join/prune keepalive timer

 $SMI_PIM4_DEBUG_TIMER_JOINPRUNE_OT$ - Debugging of the join/prune upstream override timer

SMI_PIM4_DEBUG_TIMER_ASSERT - Debugging of all assert timers

 $SMI_PIM4_DEBUG_TIMER_ASSERT_AT$ - Debugging of PIM assert timer

SMI_PIM4_DEBUG_TIMER_REGISTER - Debugging of the Register timers

 $SMI_PIM4_DEBUG_TIMER_REGISTER_RST$ - Debugging of the Register stop timer

 $SMI_PIM4_DEBUG_TIMER_BSR$ - Debugging of the Bootstrap Router timers

SMI_PIM4_DEBUG_TIMER_BSR_BST - Debugging of the BSR timer SMI_PIM4_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

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