

**ZebOS-XP PIM6 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\\_pim6.h](#) (Provides API for managing PIMv6 ) . . . . . 3





## Chapter 2

# File Documentation

### 2.1 smi\_pim6.h File Reference

Provides API for managing PIMv6. `#include "smi_client.h"`  
`#include "smi_pim6_msg.h"`

#### Functions

- `int smi_pim6_api_vif_mode_set_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int8\_t mode)
- `int smi_pim6_api_vif_mode_unset_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int8\_t mode)
- `int smi_pim6_api_vif_passive_set_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- `int smi_pim6_api_vif_passive_unset_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- `int smi_pim6_api_vif_hello_interval_set_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t helloInterval)
- `int smi_pim6_api_vif_hello_interval_unset_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- `int smi_pim6_api_vif_hello_holdtime_set_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t helloHoldTimeInterval)
- `int smi_pim6_api_vif_hello_holdtime_unset_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- `int smi_pim6_api_vif_propagation_delay_set_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t propagationDelay)
- `int smi_pim6_api_vif_propagation_delay_unset_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- `int smi_pim6_api_vif_nbr_filter_set_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, char \*neighborFilterName)
- `int smi_pim6_api_vif_nbr_filter_unset_validate` (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, char \*neighborFilterName)

- int **smi\_pim6\_api\_vif\_state\_refresh\_originate\_interval\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t stateRefreshOriginateInterval)
- int **smi\_pim6\_api\_vif\_state\_refresh\_originate\_interval\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vr\_id, char \*ifname)
- int **smi\_pim6\_api\_vif\_dr\_priority\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int32\_t designatedRouterPriority)
- int **smi\_pim6\_api\_vif\_dr\_priority\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- int **smi\_pim6\_api\_vif\_exclude\_genid\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- int **smi\_pim6\_api\_vif\_exclude\_genid\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- int **smi\_pim6\_api\_vif\_bsr\_border\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- int **smi\_pim6\_api\_vif\_bsr\_border\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- int **smi\_pim6\_api\_vif\_unicast\_bsm\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- int **smi\_pim6\_api\_vif\_unicast\_bsm\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)
- int **smi\_pim6\_api\_router\_id\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vr\_id, char \*vrf\_name, struct pal\_in4\_addr router\_id)
- int **smi\_pim6\_api\_router\_id\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vr\_id, char \*vrf\_name, bool\_t router\_id\_provided, struct pal\_in4\_addr router\_id)
- int **smi\_pim6\_api\_embed\_rp\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_embed\_rp\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_join\_prune\_timer\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, u\_int32\_t joinPruneTime)
- int **smi\_pim6\_api\_join\_prune\_timer\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_ignore\_rp\_set\_priority\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_ignore\_rp\_set\_priority\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_spt\_switch\_threshold\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*groupAccessCtrlListName)
- int **smi\_pim6\_api\_spt\_switch\_threshold\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*groupAccessCtrlListName)
- int **smi\_pim6\_api\_register\_source\_interface\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- int **smi\_pim6\_api\_register\_source\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)

- int **smi\_pim6\_api\_register\_rate\_limit\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, u\_int16\_t registerRateLimit)
- int **smi\_pim6\_api\_register\_rate\_limit\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_register\_rp\_reachability\_check\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_register\_rp\_reachability\_check\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_rp\_register\_keep\_alive\_timer\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, u\_int16\_t registerKeepAliveTime)
- int **smi\_pim6\_api\_rp\_register\_keep\_alive\_timer\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_register\_suppression\_time\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, u\_int16\_t registerSuppressTime)
- int **smi\_pim6\_api\_register\_suppression\_time\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_rp\_accept\_register\_filter\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*accessCtrlListOption)
- int **smi\_pim6\_api\_rp\_accept\_register\_filter\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*accessCtrlListOption)
- int **smi\_pim6\_api\_rp\_checksum\_filter\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*accessCtrlListOption)
- int **smi\_pim6\_api\_rp\_checksum\_filter\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*accessCtrlListOption)
- int **smi\_pim6\_api\_bsr\_interop\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_bsr\_interop\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- int **smi\_pim6\_api\_bsr\_candidate\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- int **smi\_pim6\_api\_bsr\_candidate\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- int **smi\_pim6\_api\_bsr\_candidate\_hash\_mask\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_char hashMask)
- int **smi\_pim6\_api\_bsr\_candidate\_hash\_mask\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- int **smi\_pim6\_api\_bsr\_candidate\_priority\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_char candidatePriority)
- int **smi\_pim6\_api\_bsr\_candidate\_priority\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- int **smi\_pim6\_api\_rp\_candidate\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)

- **int smi\_pim6\_api\_rp\_candidate\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- **int smi\_pim6\_api\_rp\_candidate\_priority\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_char candidatePriority)
- **int smi\_pim6\_api\_rp\_candidate\_priority\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- **int smi\_pim6\_api\_crp\_per\_grp\_chk\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, vrf\_id\_t vrfId, char \*ifName, char \*groupAccessCtrlListName)
- **int smi\_pim6\_api\_rp\_candidate\_group\_acl\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, char \*groupAccessCtrlListName)
- **int smi\_pim6\_api\_rp\_candidate\_group\_acl\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- **int smi\_pim6\_api\_rp\_candidate\_adv\_interval\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_int16\_t candidateAdvertiseInterval)
- **int smi\_pim6\_api\_rp\_candidate\_adv\_interval\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName)
- **int smi\_pim6\_api\_ssm\_default\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- **int smi\_pim6\_api\_ssm\_default\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- **int smi\_pim6\_api\_ssm\_range\_set\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*accessCtrlListOption)
- **int smi\_pim6\_api\_ssm\_range\_unset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*accessCtrlListOption)
- **int smi\_pim6\_api\_clear\_bsr\_rpset\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)
- **int smi\_pim\_debug\_ipv6\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, int debug)
- **int smi\_pim\_no\_debug\_ipv6\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, int debug)
- **int smi\_pim6\_api\_register\_source\_interface\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_int8\_t registerInterface)
- **int smi\_pim6\_api\_vif\_mode\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int8\_t mode, bool\_t vifModeFlag)
- **int smi\_pim6\_api\_vif\_hello\_interval\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t helloInterval, bool\_t vifHelloIntervalFlag)
- **int smi\_pim6\_api\_vif\_hello\_holdtime\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t helloHoldTimeInterval, bool\_t vifHelloHoldTimeFlag)
- **int smi\_pim6\_api\_vif\_propagation\_delay\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t propagationDelay, bool\_t vifPropagationDelayFlag)

- int **smi\_pim6\_api\_vif\_nbr\_filter\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, char \*neighborFilterName, bool\_t vifNeighborFilterFlag)
- int **smi\_pim6\_api\_vif\_dr\_priority\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int32\_t designatedRouterPriority, bool\_t vifDesignatedRouterPriorityFlag)
- int **smi\_pim6\_api\_vif\_bsr\_border\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, bool\_t vifBootstrapRouterBorderFlag)
- int **smi\_pim6\_api\_vif\_exclude\_genid\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, bool\_t vifExcludeGenIdFlag)
- int **smi\_pim6\_api\_vif\_unicast\_bsm\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, bool\_t vifUnicastBootstrapMechanismFlag)
- int **smi\_pim6\_api\_vif\_passive\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, bool\_t vifPassiveFlag)
- int **smi\_pim6\_api\_bsr\_candidate\_hash\_mask\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_char hashMask, bool\_t bootstrapCandidateHashMaskFlag)
- int **smi\_pim6\_api\_bsr\_candidate\_priority\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_char candidatePriority, bool\_t bootstrapRouterCandidatePriorityFlag)
- int **smi\_pim6\_api\_rp\_candidate\_priority\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_char candidatePriority, bool\_t rendezvousPointCandidatePriorityFlag)
- int **smi\_pim6\_api\_rp\_candidate\_group\_acl\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, char \*groupAccessCtrlListName, bool\_t rendezvousPointCandidateGroupFlag)
- int **smi\_pim6\_api\_rp\_candidate\_adv\_interval\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*ifName, u\_int16\_t candidateAdvertiseInterval, bool\_t rendezvousPointCandidateAdvertiseIntervalFlag)
- int **smi\_pim6\_api\_ssm\_range\_set\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, char \*accessCtrlListOption, u\_int8\_t ssmRangeFlag)
- int **smi\_pim6\_debug\_ip\_wrap\_validate** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, int debug, bool\_t debugFlag)
- int **smi\_pim6\_api\_vif\_mode\_set** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int8\_t mode)

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

- int **smi\_pim6\_api\_vif\_mode\_unset** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int8\_t mode)

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

- int **smi\_pim6\_api\_vif\_passive\_set** (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)

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

- int [smi\\_pim6\\_api\\_vif\\_passive\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)

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

- int [smi\\_pim6\\_api\\_vif\\_hello\\_interval\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t helloInterval)

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

- int [smi\\_pim6\\_api\\_vif\\_hello\\_interval\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)

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

- int [smi\\_pim6\\_api\\_vif\\_hello\\_holdtime\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t helloHoldTimeInterval)

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

- int [smi\\_pim6\\_api\\_vif\\_hello\\_holdtime\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)

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

- int [smi\\_pim6\\_api\\_vif\\_propagation\\_delay\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t propagationDelay)

*This function configures the PIM VIF propagation delay in millisecond.*

- int [smi\\_pim6\\_api\\_vif\\_propagation\\_delay\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)

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

- int [smi\\_pim6\\_api\\_vif\\_nbr\\_filter\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, char \*neighborFilterName)

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

- int [smi\\_pim6\\_api\\_vif\\_state\\_refresh\\_originate\\_interval\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int16\_t stateRefreshOriginateInterval)

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

- int [smi\\_pim6\\_api\\_vif\\_state\\_refresh\\_originate\\_interval\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vr\_id, char \*ifname)

- int [smi\\_pim6\\_api\\_vif\\_dr\\_priority\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName, u\_int32\_t designatedRouterPriority)  
*This function configures the PIM VIF designated router's priority value. When the interface is enabled, DR selection is also performed.*
- int [smi\\_pim6\\_api\\_vif\\_dr\\_priority\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)  
*This function removes configuration of the PIM VIF designated router's priority and return it to its default setting.*
- int [smi\\_pim6\\_api\\_vif\\_exclude\\_genid\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)  
*This function configures to exclude the GEN ID on the VIF.*
- int [smi\\_pim6\\_api\\_vif\\_exclude\\_genid\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)  
*This function removes configuration to exclude the GEN ID on the VIF.*
- int [smi\\_pim6\\_api\\_vif\\_bsr\\_border\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)  
*This function configures to BSR border on the VIF. It prevents bootstrap messages from being sent or received through an interface.*
- int [smi\\_pim6\\_api\\_vif\\_bsr\\_border\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)  
*This function removes configuration to BSR border on the VIF.*
- int [smi\\_pim6\\_api\\_vif\\_unicast\\_bsm\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)  
*This function configures to enable support for sending/receiving unicast Bootstrap Messages(BSM) on the specified interface.*
- int [smi\\_pim6\\_api\\_vif\\_unicast\\_bsm\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*ifName)  
*This function removes configuration to send the unicast BSM message on the interface.*
- int [smi\\_pim6\\_api\\_router\\_id\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vr\_id, char \*vrf\_name, struct pal\_in4\_addr router\_id)
- int [smi\\_pim6\\_api\\_router\\_id\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vr\_id, char \*vrf\_name, bool\_t router\_id\_provided, struct pal\_in4\_addr router\_id)
- int [smi\\_pim6\\_api\\_embed\\_rp\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)  
*This function configures embedded rendezvous point(RP).*
- int [smi\\_pim6\\_api\\_embed\\_rp\\_unset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)

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

- int [smi\\_pim6\\_api\\_clear\\_bsr\\_rpset](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName)

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

- int [smi\\_pim\\_debug\\_ipv6](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, int debug)

*Use this function to enable debugging in pim6.*

- int [smi\\_pim\\_no\\_debug\\_ipv6](#) (struct smiclient\_globals \*azg, u\_int32\_t vrId, char \*vrfName, int debug)

*Use this function to enable debugging in pim6.*

- int [smi\\_pim6\\_show\\_pim\\_if\\_brief](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_if\\_brief\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_if\\_detail](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_if\\_detail\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_if\\_brief](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_if\\_brief\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))



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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_if\\_detail](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_if\\_detail\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_nbr\\_brief](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_nbr\\_brief\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_custom\\_nbr\\_brief](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_custom\\_nbr\\_brief\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_nbr\\_detail](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_nbr\\_detail\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_custom\\_nbr\\_detail](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_custom\\_nbr\\_detail\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_nbr\\_brief](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_nbr\\_brief\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_custom\\_nbr\\_brief](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_custom\\_nbr\\_brief\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_nbr\\_detail](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_nbr\\_detail\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_custom\\_nbr\\_detail](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_custom\\_nbr\\_detail\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*nbrIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_local\\_members](#) (struct smiclient\_globals \*azg, char \*vrfName, char \*ifName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_local\\_members\\_all](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_nexthop](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_dm\\_nexthop](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_route\\_brief](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_route\\_detail](#) (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- `int smi_pim6_show_pim_dm_route` (struct smiclient\_globals \*azg, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the information in the IP PIM multicast routing table of DM mode .*
- `int smi_pim6_show_pim_route_group_brief` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*groupIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the information in the IP PIM multicast routing table for the given matched group address only.*
- `int smi_pim6_show_pim_route_group_detail` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*groupIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the information in the IP PIM multicast routing table for the given matched source address only.*
- `int smi_pim6_show_pim_route_source_brief` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*sourceIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the information in the IP PIM multicast routing table for the given matched source address only.*
- `int smi_pim6_show_pim_route_source_detail` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*sourceIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the information in the IP PIM multicast routing table for the given matched source address only.*
- `int smi_pim6_show_pim_route_source_group_brief` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*sourceIp, char \*groupIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the information in the IP PIM multicast routing table for the given matched group and source combination only.*
- `int smi_pim6_show_pim_route_source_group_detail` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*sourceIp, char \*groupIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the information in the IP PIM multicast routing table for the given matched group and source combination only.*
- `int smi_pim6_show_pim_group_rp_mapping` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*groupIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))  
*Shows the group to rendezvous point (RP) mappings of given group address.*
- `int smi_pim6_show_pim_rp_mapping` (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_group\\_rp\\_hash](#) (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, char \*groupIp, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

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

- int [smi\\_pim6\\_show\\_pim\\_bsr\\_router](#) (struct smiclient\_globals \*azg, u\_int32\_t inVrId, char \*vrfName, struct list \*pimOutList, u\_int32\_t(\*callbackFunc)(struct list \*pimOutList))

*Shows the bootstrap router's information.*

- int [smi\\_pim6\\_api\\_vif\\_nbr\\_filter\\_set](#) (struct smiclient\_globals \*azg, u\_int32\_t vr\_id, char \*ifname, char \*filter)

### 2.1.1 Detailed Description

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

### 2.1.2 Function Documentation

#### 2.1.2.1 int [smi\\_pim6\\_api\\_clear\\_bsr\\_rpset](#) (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* vrfName)

This function clears the specified router as the candidate BSR rendezvous point(RP) set. [smi\\_pim6\\_api\\_clear\\_bsr\\_rpset](#)

##### Parameters:

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

##### Returns:

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VR  
 PIM\_API\_SET\_ERR\_WRONG\_VRF PIM\_API\_SET\_ERROR

#### 2.1.2.2 int [smi\\_pim6\\_api\\_embed\\_rp\\_set](#) (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* vrfName)

This function configures embedded rendezvous point(RP). [smi\\_pim6\\_api\\_embed\\_rp\\_set](#)

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual router ID numeric <0-255>
- ← *vrflId* Name of the VPN routing/forwarding interfacen

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VR  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERROR

### 2.1.2.3 **int smi\_pim6\_api\_embed\_rp\_unset (struct smiclient\_globals \* *azg*, u\_int32\_t *vrId*, char \* *vrflName*)**

This function removes configuration an embedded rendezvous point(RP). smi\_pim6\_api\_embed\_rp\_unset

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual router ID numeric <0-255>
- ← *vrflId* Name of the VPN routing/forwarding interface

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VR  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERROR

### 2.1.2.4 **int smi\_pim6\_api\_vif\_bsr\_border\_set (struct smiclient\_globals \* *azg*, u\_int32\_t *vrId*, char \* *ifName*)**

This function configures to BSR border on the VIF. It prevents bootstrap messages from being sent or received through an interface. smi\_pim6\_api\_vif\_bsr\_border\_set

**Parameters:**

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

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF

### 2.1.2.5 int smi\_pim6\_api\_vif\_bsr\_border\_unset (struct smiclient\_globals \* *azg*, u\_int32\_t *vrId*, char \* *ifName*)

This function removes configuration to BSR border on the VIF. smi\_pim6\_api\_vif\_bsr\_border\_unset

#### Parameters:

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

#### Returns:

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
PIM\_API\_SET\_ERR\_WRONG\_VALUE  
PIM\_API\_SET\_ERR\_WRONG\_VRF  
PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST

### 2.1.2.6 int smi\_pim6\_api\_vif\_dr\_priority\_set (struct smiclient\_globals \* *azg*, u\_int32\_t *vrId*, char \* *ifName*, u\_int32\_t *designatedRouterPriority*)

This function configures the PIM VIF designated router's priority value. When the interface is enabled, DR selection is also performed. smi\_pim6\_api\_vif\_dr\_priority\_set

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual router ID numeric <0-255>
- ← *ifName* Name of the interface
- ← *designatedRouterPriority* DR priority value numeric <0-4294967294> @return PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
PIM\_API\_SET\_ERR\_WRONG\_VALUE  
PIM\_API\_SET\_ERR\_WRONG\_VRF

### 2.1.2.7 int smi\_pim6\_api\_vif\_dr\_priority\_unset (struct smiclient\_globals \* *azg*, u\_int32\_t *vrId*, char \* *ifName*)

This function removes configuration of the PIM VIF designated router's priority and return it to its default setting. smi\_pim6\_api\_vif\_dr\_priority\_unset

#### Parameters:

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

← *vrId* Virtual router ID numeric <0-255>  
 ← *ifName* Name of the interface

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST

### 2.1.2.8 int smi\_pim6\_api\_vif\_exclude\_genid\_set (struct smiclient\_globals \* *azg*, u\_int32\_t *vrId*, char \* *ifName*)

This function configures to exclude the GEN ID on the VIF. smi\_pim6\_api\_vif\_exclude\_genid\_set

**Parameters:**

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

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF

### 2.1.2.9 int smi\_pim6\_api\_vif\_exclude\_genid\_unset (struct smiclient\_globals \* *azg*, u\_int32\_t *vrId*, char \* *ifName*)

This function removes configuration to exclude the GEN ID on the VIF. smi\_pim6\_api\_vif\_exclude\_genid\_unset

**Parameters:**

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

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST



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

This function configures the PIM VIF hello holdtime seconds. If value of sec is less than configured hello\_interval, it will be refused. smi\_pim6\_api\_vif\_hello\_holdtime\_set

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual router ID numeric <0-255>
- ← *ifName* Name of the interface
- ← *helloHoldTimeInterval* Hello hold time in second numeric <1-65535>

#### Returns:

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
PIM\_API\_SET\_ERR\_WRONG\_VALUE  
PIM\_API\_SET\_ERR\_WRONG\_VRF

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

This function removes configuration of the PIM VIF hello holdtime and return it to its default settings. smi\_pim6\_api\_vif\_hello\_holdtime\_unset

#### Parameters:

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

#### Returns:

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
PIM\_API\_SET\_ERR\_WRONG\_VALUE  
PIM\_API\_SET\_ERR\_WRONG\_VRF  
PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST

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

This function configures the PIM VIF hello interval value in seconds. smi\_pim6\_api\_vif\_hello\_interval\_set

#### Parameters:

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

- ← *vrId* Virtual router id <0-255>
- ← *ifName* Name of the interface
- ← *helloInterval* Hello interval is in seconds numeric <1-65535>

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_HELLO\_HOLDTIME\_EXCEED

### 2.1.2.13 int smi\_pim6\_api\_vif\_hello\_interval\_unset (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* ifName)

This function removes configuration of the PIM VIF hello interval seconds. smi\_pim6\_api\_vif\_hello\_interval\_unset

**Parameters:**

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

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST

### 2.1.2.14 int smi\_pim6\_api\_vif\_mode\_set (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* ifName, u\_int8\_t mode)

This function configures the PIM mode on the VIF interface ifName. smi\_pim6\_api\_vif\_mode\_set

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual router ID numeric <0-255>
- ← *ifName* Name of the interface
- ← *mode* PIM mode <0-4>
  - 0-PIM\_API\_MODE\_INVALID, 1-PIM\_API\_MODE\_DENSE -PIM\_API\_MODE\_SPARSE, 3-PIM\_API\_MODE\_ANY
  - 4-PIM\_API\_MODE\_MAX

**Returns:**

0 on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERROR

**2.1.2.15 int smi\_pim6\_api\_vif\_mode\_unset (struct smiclient\_globals \* azg,  
 u\_int32\_t vrId, char \* ifName, u\_int8\_t mode)**

This function removes the configured PIM mode from a VIF interface. smi\_pim6\_api\_vif\_mode\_unset

**Parameters:**

← **azg** Pointer to the SMI client global structure  
 ← **vrId** Virtual router ID numeric <0-255>  
 ← **ifName** Name of the interface  
 ← **mode** PIM mode <0-4>  
     0-PIM\_API\_MODE\_INVALID  
     1-PIM\_API\_MODE\_DENSE  
     2-PIM\_API\_MODE\_SPARSE  
     3-PIM\_API\_MODE\_ANY  
     4-PIM\_API\_MODE\_MAX

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST  
 PIM\_API\_SET\_ERR\_MODE\_MIS\_MATCH  
 PIM\_API\_SET\_ERR\_VIF\_SOCKET\_LEAVE\_ERROR

**2.1.2.16 int smi\_pim6\_api\_vif\_nbr\_filter\_unset (struct smiclient\_globals \* azg,  
 u\_int32\_t vrId, char \* ifName, char \* neighborFilterName)**

This function removes configuration of the PIM VIF neighbor filter access-list name. smi\_pim6\_api\_vif\_nbr\_filter\_unset

**Parameters:**

← **azg** Pointer to the SMI client global structure  
 ← **vrId** Virtual router ID numeric <0-255>  
 ← **ifName** Name of the interface  
 ← **neighborFilterName** Name of the Access-list to be used as a neighbor filter  
     (numeric <1-99> | Word )

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST  
 PIM\_API\_SET\_ERROR

### 2.1.2.17 int smi\_pim6\_api\_vif\_passive\_set (struct smiclient\_globals \* azg, u\_int32\_t vrid, char \* ifName)

This function configures the PIM VIF interface as a passive interface which essentially stops PIM transactions on the interface ifName and allows only IGMP mechanism to be active. smi\_pim6\_api\_vif\_passive\_set

**Parameters:**

← *azg* Pointer to the SMI client global structure  
 ← *vrid* Virtual Router ID numeric <0-255>  
 ← *ifName* Name of the interface

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_SOCKET\_LEAVE\_ERROR  
 PIM\_API\_SET\_ERROR

### 2.1.2.18 int smi\_pim6\_api\_vif\_passive\_unset (struct smiclient\_globals \* azg, u\_int32\_t vrid, char \* ifName)

This function removes the configuration of a PIM VIF as a passive interface. smi\_pim6\_api\_vif\_passive\_unset

**Parameters:**

← *azg* Pointer to the SMI client global structure  
 ← *vrid* Virtual router ID numeric <0-255>  
 ← *ifName* Name of the interface

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_SOCKET\_LEAVE\_ERROR

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

This function configures the PIM VIF propagation delay in millisecond. `smi_pim6_api_vif_propagation_delay_set`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual Router Id
- ← *ifName* Name of the interface
- ← *propagationDelay* Propogation delay in milliseconds numeric <1000-5000>

#### Returns:

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF

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

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

#### Parameters:

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

#### Returns:

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual router ID numeric <0-255>
- ← *ifName* Name of the interface
- ← *stateRefreshOriginateinterval* State refresh interval in seconds numeric <1 - 100>

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF

#### 2.1.2.22 **int smi\_pim6\_api\_vif\_unicast\_bsm\_set (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* ifName)**

This function configures to enable support for sending/receiving unicast Bootstrap Messages(BSM) on the specified interface. smi\_pim6\_api\_vif\_unicast\_bsm\_set

**Parameters:**

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

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF

#### 2.1.2.23 **int smi\_pim6\_api\_vif\_unicast\_bsm\_unset (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* ifName)**

This function removes configuration to send the unicast BSM message on the interface. smi\_pim6\_api\_vif\_unicast\_bsm\_unset

**Parameters:**

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

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes  
 PIM\_API\_SET\_ERR\_WRONG\_VALUE  
 PIM\_API\_SET\_ERR\_WRONG\_VRF  
 PIM\_API\_SET\_ERR\_VIF\_NOT\_EXIST

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

Shows the bootstrap router's information. smi\_pim6\_show\_pim\_bsr\_router

**Parameters:**

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

**Returns:**

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

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

Shows the ANY mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. smi\_pim6\_show\_pim\_custom\_nbr\_brief

**Parameters:**

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

**Returns:**

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

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

Shows the ANY mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. smi\_pim6\_show\_pim\_custom\_nbr\_brief\_all

**Parameters:**

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

**Returns:**

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

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

Shows the ANY mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. `smi_pim6_show_pim_custom_nbr_detail`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- ← *nbrIp* Neighbor address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6NbrEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the ANY mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. `smi_pim6_show_pim_custom_nbr_detail_all`

**Parameters:**

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



- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *nbrIp* Neighbor address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6NbrEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the DM mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. `smi_pim6_show_pim_dm_custom_nbr_brief`

**Parameters:**

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

**Returns:**

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

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

Shows the DM mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. `smi_pim6_show_pim_dm_custom_nbr_brief_all`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}

- ← *nbrIp* Neighbor address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6NbrEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the DM mode PIM Neighbor Table for the given interface and given neighbor, which contains one row for each of the router's PIM neighbors. `smi_pim6_show_pim_dm_custom_nbr_detail`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- ← *nbrIp* Neighbor address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6NbrEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the DM mode PIM Neighbor Table for the given neighbor, on all interfaces which contains one row for each of the router's PIM neighbors. `smi_pim6_show_pim_dm_custom_nbr_detail_all`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *nbrIp* Neighbor address in A.B.C.D format.

- *pimOutList* Pointer to linked list of structure pim6NbrEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the DM mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol. smi\_pim6\_show\_pim\_dm\_if\_brief

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6DmIfEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the DM mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol. smi\_pim6\_show\_pim\_dm\_if\_brief\_all

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure pim6DmIfEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure `pim6DmIfEntryDetail`
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure `pim6IDmIfEntryDetail`
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← [*Optional*]*vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6NbrEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the DM mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors. smi\_pim6\_show\_pim\_dm\_nbr\_brief\_all

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← [*Optional*]*vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6NbrEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the DM mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors. smi\_pim6\_show\_pim\_dm\_nbr\_detail

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← [*Optional*]*vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6NbrEntryDetail

← *callbackFunc* Callback func pointer

#### Returns:

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

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

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

#### Parameters:

← *azg* Pointer to the SMI client global structure  
 ← *[Optional]vrfName* VRF name {NAME|all|default}  
 ← *ifName* Interface name  
 → *pimOutList* Pointer to linked list of structure `pim6NbrEntryDetail`  
 ← *callbackFunc* Callback func pointer

#### Returns:

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

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

Shows the nexthop information from NSM as used by PIM of DM mode. `smi_pim6_show_pim_dm_nexthop`

#### Parameters:

← *azg* Pointer to the SMI client global structure  
 ← *[Optional]vrfName* VRF name {NAME|all|default}  
 → *pimOutList* Pointer to linked list of structure `pim6NexthopEntry`  
 ← *callbackFunc* Callback func pointer

#### Returns:

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

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

Shows the information in the IP PIM multicast routing table of DM mode . smi\_pim6\_show\_pim\_dm\_route

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure pim6RouteEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the rendezvous point (RP) to chose of given on group address. smi\_pim6\_show\_pim\_group\_rp\_hash

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual Router ID <0-255>
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *groupIp* Group address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6RpHashEntry
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the group to rendezvous point (RP) mappings of given group address. smi\_pim6\_show\_pim\_group\_rp\_mapping

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual Router ID <0-255>
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *groupIp* Group address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6GroupRpMapping
- ← *callbackFunc* Callback func pointer

**Returns:**

- 0 on success, otherwise one of the following error codes
- RESULT\_ERROR

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6IfEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

- 0 on success, otherwise one of the following error codes
- RESULT\_ERROR

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

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

**Parameters:**

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



- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure pim6IfEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the ANY mode PIM Interface Table for the given interface, which contains one row per IP version for each interface of the router which is running PIM protocol.  
smi\_pim6\_show\_pim\_if\_detail

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6IfEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the ANY mode PIM Interface Table for all interfaces, which contains one row per IP version for each interface of the router which is running PIM protocol. smi\_pim6\_show\_pim\_if\_detail\_all

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure pim6IfEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name.
- *pimOutList* Pointer to linked list of structure `pim6LocalMembersEntry`
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure `pim6LocalMembersEntry`
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

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

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← [*Optional*]*vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6NbrEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the ANY mode PIM Neighbor Table for all interfaces, which contains one row for each of the router's PIM neighbors. smi\_pim6\_show\_pim\_nbr\_brief\_all

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← [*Optional*]*vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6NbrEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the ANY mode PIM Neighbor Table for the given interface, which contains one row for each of the router's PIM neighbors. smi\_pim6\_show\_pim\_nbr\_detail

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← [*Optional*]*vrfName* VRF name {NAME|all|default}
- ← *ifName* Interface name
- *pimOutList* Pointer to linked list of structure pim6NbrEntryDetail

← *callbackFunc* Callback func pointer

#### Returns:

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

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

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

#### Parameters:

← *azg* Pointer to the SMI client global structure  
 ← *[Optional]vrfName* VRF name {NAME|all|default}  
 ← *ifName* Interface name  
 → *pimOutList* Pointer to linked list of structure `pim6NbrEntryDetail`  
 ← *callbackFunc* Callback func pointer

#### Returns:

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

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

Shows the nexthop information from NSM as used by PIM of ANY mode. `smi_pim6_show_pim_nexthop`

#### Parameters:

← *azg* Pointer to the SMI client global structure  
 ← *[Optional]vrfName* VRF name {NAME|all|default}  
 → *pimOutList* Pointer to linked list of structure `pim6NexthopEntry`  
 ← *callbackFunc* Callback func pointer

#### Returns:

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

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

Shows the ANY mode information in the IP PIM multicast routing table, of ANY mode. smi\_pim6\_show\_pim\_route\_brief

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure pim6RouteEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the ANY mode information in the IP PIM multicast routing table, of ANY mode. smi\_pim6\_show\_pim\_route\_detail

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- *pimOutList* Pointer to linked list of structure pim6RouteEntryDetail
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the information in the IP PIM multicast routing table for the given matched group address only. smi\_pim6\_show\_pim\_route\_group\_brief

**Parameters:**

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

- ← *vrId* Virtual Router ID <0-255>
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *groupIp* Group address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6RouteEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the information in the IP PIM multicast routing table for the given matched source address only. smi\_pim6\_show\_pim\_route\_group\_detail

**Parameters:**

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

**Returns:**

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

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

Shows the information in the IP PIM multicast routing table for the given matched source address only. smi\_pim6\_show\_pim\_route\_source\_brief

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual Router ID <0-255>
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *sourceIp* Source address in A.B.C.D format.

- *pimOutList* Pointer to linked list of structure pim6RouteEntryBrief
- ← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the information in the IP PIM multicast routing table for the given matched source address only. smi\_pim6\_show\_pim\_route\_source\_detail

**Parameters:**

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

**Returns:**

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

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

Shows the information in the IP PIM multicast routing table for the given matched group and source combination only. smi\_pim6\_show\_pim\_route\_source\_group\_brief

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual Router ID <0-255>
- ← *[Optional]vrfName* VRF name {NAME|all|default}
- ← *sourceIp* Source address in A.B.C.D format.
- ← *groupIp* Group address in A.B.C.D format.
- *pimOutList* Pointer to linked list of structure pim6RouteEntryBrief

← *callbackFunc* Callback func pointer

**Returns:**

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

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

Shows the information in the IP PIM multicast routing table for the given matched group and source combination only. smi\_pim6\_show\_pim\_route\_source\_group\_detail

**Parameters:**

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

**Returns:**

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

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

Shows the group to rendezvous point (RP) mappings of all group addresses, i.e all PIM route entries. smi\_pim6\_show\_pim\_rp\_mapping

**Parameters:**

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

**Returns:**

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



### 2.1.2.65 int smi\_pim\_debug\_ipv6 (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* vrfName, int debug)

Use this function to enable debugging in pim6. smi\_pim\_debug\_ipv6

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *vrId* Virtual router id
- ← *vrfName* VRF NAME. Pass Null in case of default VRF
- ← *debug* Pass debug flag as following:
  - SMI\_PIM6\_DEBUG\_ALL - All PIM events
  - SMI\_PIM6\_DEBUG\_NSM - All NSM events
  - SMI\_PIM6\_DEBUG\_STATE - Debugging of PIM state
  - SMI\_PIM6\_DEBUG\_EVENTS - Debugging of PIM event
  - SMI\_PIM6\_DEBUG\_PACKET - Debugging of all PIM packets
  - SMI\_PIM6\_DEBUG\_PACKET\_IN - Debugging of incoming PIM packets
  - SMI\_PIM6\_DEBUG\_PACKET\_OUT - Debugging of outgoing PIM packets
  - SMI\_PIM6\_DEBUG\_NEXTHOP - Debugging of Reverse Path Forwarding nexthop cache handing
  - SMI\_PIM6\_DEBUG\_MFC - Debugging for MFC updates
  - SMI\_PIM6\_DEBUG\_MIB - Debugging of MIB entries
  - SMI\_PIM6\_DEBUG\_MTRACE - Debugging of MTRACE messages
  - SMI\_PIM6\_DEBUG\_TIMER - Debugging of timers
  - SMI\_PIM6\_DEBUG\_TIMER\_HELLO - Debugging of the hello timers
  - SMI\_PIM6\_DEBUG\_TIMER\_HELLO\_HT - Debugging of hello timers
  - SMI\_PIM6\_DEBUG\_TIMER\_HELLO\_NLT - Debugging of neighbor\_liveliness hello timer
  - SMI\_PIM6\_DEBUG\_TIMER\_HELLO\_THT - Debugging of triggered hello timer
  - SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE - Debugging of all join/prune timers
  - SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_JT - Debugging of the join/prune timers
  - SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_ET - Debugging of the join/prune expiration timer
  - SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_PPT - Debugging of the join/prune pending set
  - SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_KAT - Debugging of the join/prune keepalive timer
  - SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_OT - Debugging of the join/prune upstream override timer
  - SMI\_PIM6\_DEBUG\_TIMER\_ASSERT - Debugging of all assert timers
  - SMI\_PIM6\_DEBUG\_TIMER\_ASSERT\_AT - Debugging of PIM assert timer

SMI\_PIM6\_DEBUG\_TIMER\_REGISTER - Debugging of the Register timers

SMI\_PIM6\_DEBUG\_TIMER\_REGISTER\_RST - Debugging of the Register stop timer

SMI\_PIM6\_DEBUG\_TIMER\_BSR - Debugging of the Bootstrap Router timers

SMI\_PIM6\_DEBUG\_TIMER\_BSR\_BST - Debugging of the BSR timer

SMI\_PIM6\_DEBUG\_TIMER\_BSR\_CRP - Debugging of the BSR candidate-RP timer

#### Returns:

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes

PIM\_API\_SET\_ERR\_WRONG\_VR

PIM\_API\_SET\_ERR\_WRONG\_VRF

#### 2.1.2.66 int smi\_pim\_no\_debug\_ipv6 (struct smiclient\_globals \* azg, u\_int32\_t vrId, char \* vrfName, int debug)

Use this function to enable debugging in pim6. smi\_pim\_no\_debug\_ipv6

#### Parameters:

← *azg* Pointer to the SMI client global structure

← *vrId* Virtual router id

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

← *debug* Pass debug flag as following:

SMI\_PIM6\_DEBUG\_ALL - All PIM events

SMI\_PIM6\_DEBUG\_NSM - All NSM events

SMI\_PIM6\_DEBUG\_STATE - Debugging of PIM state

SMI\_PIM6\_DEBUG\_EVENTS - Debugging of PIM event

SMI\_PIM6\_DEBUG\_PACKET - Debugging of all PIM packets

SMI\_PIM6\_DEBUG\_PACKET\_IN - Debugging of incoming PIM packets

SMI\_PIM6\_DEBUG\_PACKET\_OUT - Debugging of outgoing PIM packets

SMI\_PIM6\_DEBUG\_NEXTHOP - Debugging of Reverse Path Forwarding nexthop cache handing

SMI\_PIM6\_DEBUG\_MFC - Debugging for MFC updates

SMI\_PIM6\_DEBUG\_MIB - Debugging of MIB entries

SMI\_PIM6\_DEBUG\_MTRACE - Debugging of MTRACE messages

SMI\_PIM6\_DEBUG\_TIMER - Debugging of timers

SMI\_PIM6\_DEBUG\_TIMER\_HELLO - Debugging of the hello timers

SMI\_PIM6\_DEBUG\_TIMER\_HELLO\_HT - Debugging of hello timers

SMI\_PIM6\_DEBUG\_TIMER\_HELLO\_NLT - Debugging of neighbor-liveliness hello timer

SMI\_PIM6\_DEBUG\_TIMER\_HELLO\_THT - Debugging of triggered hello timer

SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE - Debugging of all join/prune timers

SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_JT - Debugging of the join/prune timers

SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_ET - Debugging of the join/prune expiration timer

SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_PPT - Debugging of the join/prune pending set

SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_KAT - Debugging of the join/prune keepalive timer

SMI\_PIM6\_DEBUG\_TIMER\_JOINPRUNE\_OT - Debugging of the join/prune upstream override timer

SMI\_PIM6\_DEBUG\_TIMER\_ASSERT - Debugging of all assert timers

SMI\_PIM6\_DEBUG\_TIMER\_ASSERT\_AT - Debugging of PIM assert timer

SMI\_PIM6\_DEBUG\_TIMER\_REGISTER - Debugging of the Register timers

SMI\_PIM6\_DEBUG\_TIMER\_REGISTER\_RST - Debugging of the Register stop timer

SMI\_PIM6\_DEBUG\_TIMER\_BSR - Debugging of the Bootstrap Router timers

SMI\_PIM6\_DEBUG\_TIMER\_BSR\_BST - Debugging of the BSR timer

SMI\_PIM6\_DEBUG\_TIMER\_BSR\_CRP - Debugging of the BSR candidate-RP timer

**Returns:**

PIM\_API\_SET\_SUCCESS on success, otherwise one of the following error codes

PIM\_API\_SET\_ERR\_WRONG\_VR

PIM\_API\_SET\_ERR\_WRONG\_VRF

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