

**ZebOS-XP PTP SMI Reference**  
IP Infusion Inc.

Generated by Doxygen 1.6.1

Wed Dec 16 12:33:26 2015



# Contents

<b>1</b>	<b>File Index</b>	<b>1</b>
1.1	File List . . . . .	1
<b>2</b>	<b>File Documentation</b>	<b>3</b>
2.1	smi_ptp.h File Reference . . . . .	3
2.1.1	Detailed Description . . . . .	5
2.1.2	Function Documentation . . . . .	6
2.1.2.1	smi_ptp_api_clock_port_create . . . . .	6
2.1.2.2	smi_ptp_api_clock_slave_only_disable . . . . .	6
2.1.2.3	smi_ptp_api_clock_slave_only_enable . . . . .	6
2.1.2.4	smi_ptp_api_create_clock . . . . .	7
2.1.2.5	smi_ptp_api_disable_bridge_global . . . . .	7
2.1.2.6	smi_ptp_api_disable_syntonization . . . . .	7
2.1.2.7	smi_ptp_api_enable_bridge_global . . . . .	8
2.1.2.8	smi_ptp_api_enable_syntonization . . . . .	8
2.1.2.9	smi_ptp_api_fault_recover . . . . .	9
2.1.2.10	smi_ptp_api_set_announce_interval . . . . .	9
2.1.2.11	smi_ptp_api_set_clock_priority1 . . . . .	9
2.1.2.12	smi_ptp_api_set_clock_priority2 . . . . .	10
2.1.2.13	smi_ptp_api_set_delay_req_interval . . . . .	10
2.1.2.14	smi_ptp_api_set_qualification_timer . . . . .	10
2.1.2.15	smi_ptp_api_set_sync_interval . . . . .	11
2.1.2.16	smi_ptp_api_unicast_disable . . . . .	11
2.1.2.17	smi_ptp_api_unicast_enable . . . . .	11
2.1.2.18	smi_ptp_api_unicast_neighbor_add_ethernet . . . . .	12
2.1.2.19	smi_ptp_api_unicast_neighbor_add_udpV4 . . . . .	12

2.1.2.20	<a href="#">smi_ptp_api_unicast_neighbor_add_udpV6 . . . . .</a>	12
2.1.2.21	<a href="#">smi_ptp_api_unicast_neighbor_del_all . . . . .</a>	13
2.1.2.22	<a href="#">smi_ptp_api_unicast_neighbor_del_ethernet . . . . .</a>	13
2.1.2.23	<a href="#">smi_ptp_api_unicast_neighbor_del_udpV4 . . . . .</a>	13
2.1.2.24	<a href="#">smi_ptp_api_unicast_neighbor_del_udpV6 . . . . .</a>	14
2.1.2.25	<a href="#">smi_ptp_delete_port_sdkapi . . . . .</a>	14

# Chapter 1

## File Index

### 1.1 File List

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

[smi\\_ptp.h](#) (Provides APIs for the configuration and monitoring of Precision  
Time Protocol (PTP) implementation by ZebOS ) . . . . . 3



## Chapter 2

# File Documentation

### 2.1 smi\_ptp.h File Reference

Provides APIs for the configuration and monitoring of Precision Time Protocol (PTP) implementation by ZebOS. `#include "smi_client.h"`

`#include "smi_ptp_msg.h"`

#### Functions

- `s_int32_t smi_ptp_api_enable_bridge_global` (struct smiclient\_globals \*azg, char \*br\_name)  
*Enables PTP on a bridge.*
- `s_int32_t smi_ptp_api_disable_bridge_global` (struct smiclient\_globals \*azg, char \*br\_name)  
*Disables PTP on a bridge.*
- `int smi_ptp_api_create_clock` (struct smiclient\_globals \*azg, char \*br\_name, u\_int8\_t clk\_type, u\_int8\_t transport\_type, u\_int8\_t delay\_mechanism)  
*Creates a PTP clock and specify clock states.*
- `s_int32_t smi_ptp_api_clock_slave_only_enable` (struct smiclient\_globals \*azg, char \*ifname)  
*Enable slave-only mode for a clock.*
- `s_int32_t smi_ptp_api_clock_slave_only_disable` (struct smiclient\_globals \*azg, char \*ifname)  
*Disable slave-only mode for a clock.*
- `int smi_ptp_api_set_clock_priority1` (struct smiclient\_globals \*azg, char \*br\_name, char \*ifname, u\_int8\_t priority1)

*Sets the priority1 value of the clock. PTP uses priority1 and priority2 values to determine the best master clock in a domain.*

- int [smi\\_ptp\\_api\\_set\\_clock\\_priority2](#) (struct smiclient\_globals \*azg, char \*br\_name, char \*ifname, u\_int8\_t priority2)

*Sets the priority2 value of the clock. PTP uses priority1 and priority2 values to determine the best master clock in a domain.*

- int [smi\\_ptp\\_api\\_clock\\_port\\_create](#) (struct smiclient\_globals \*azg, char \*ifname, u\_int8\_t transport\_type)

*Use this API to enable PTP on an interface.*

- int [smi\\_ptp\\_api\\_fault\\_recover](#) (struct smiclient\_globals \*azg, char \*ifname)

*Change the port state from faulty to listening.*

- int [smi\\_ptp\\_api\\_set\\_delay\\_req\\_interval](#) (struct smiclient\_globals \*azg, char \*ifname, u\_int8\_t delay\_interval)

*Sets the propagation delay measuring interval.*

- int [smi\\_ptp\\_api\\_set\\_sync\\_interval](#) (struct smiclient\_globals \*azg, char \*ifname, s\_int8\_t sync\_interval)

*Sets the mean time in seconds between clock synchronization messages. Master clocks transmit synchronization messages to their slaves. This value is the logarithm to the base 2 of the mean time in seconds between successive clock synchronization messages.*

- int [smi\\_ptp\\_api\\_set\\_qualification\\_timer](#) (struct smiclient\_globals \*azg, char \*ifname, s\_int8\_t qual\_interval)

*Sets the number of announce intervals that a clock spends in the PRE\_MASTER state allowing changes to propagate from possible masters visible from the port.*

- int [smi\\_ptp\\_api\\_set\\_announce\\_interval](#) (struct smiclient\_globals \*azg, char \*ifname, s\_int8\_t announce\_interval)

*Sets the interval for announce messages with status and characterization information about the transmitting device. The receiver uses this information to determine the best master clock. This value is the logarithm to the base 2 of the mean time between successive announce messages.*

- int [smi\\_ptp\\_api\\_unicast\\_disable](#) (struct smiclient\_globals \*azg, char \*ifname)

*Disable PTP unicast on an interface.*

- int [smi\\_ptp\\_api\\_unicast\\_enable](#) (struct smiclient\_globals \*azg, char \*ifname, s\_int16\_t max\_table\_size)

*Enable PTP unicast on an interface.*

- int [smi\\_ptp\\_api\\_unicast\\_neighbor\\_add\\_ethernet](#) (struct smiclient\_globals \*azg, char \*ifname, char \*addr)

*Add a unicast neighbor.*



- int [smi\\_ptp\\_api\\_unicast\\_neighbor\\_add\\_udpV4](#) (struct smiclient\_globals \*azg, char \*ifname, char \*addr)  
*Add a unicast neighbor.*
- int [smi\\_ptp\\_api\\_unicast\\_neighbor\\_add\\_udpV6](#) (struct smiclient\_globals \*azg, char \*ifname, char \*addr)  
*Add a unicast neighbor.*
- int [smi\\_ptp\\_api\\_unicast\\_neighbor\\_del\\_ethernet](#) (struct smiclient\_globals \*azg, char \*ifname, char \*addr)  
*Removes a unicast neighbor.*
- int [smi\\_ptp\\_api\\_unicast\\_neighbor\\_del\\_udpV4](#) (struct smiclient\_globals \*azg, char \*ifname, char \*addr)  
*Removes a unicast neighbor.*
- int [smi\\_ptp\\_api\\_unicast\\_neighbor\\_del\\_udpV6](#) (struct smiclient\_globals \*azg, char \*ifname, char \*addr)  
*Removes a unicast neighbor.*
- int [smi\\_ptp\\_api\\_unicast\\_neighbor\\_del\\_all](#) (struct smiclient\_globals \*azg, char \*ifname)  
*Removes all unicast neighbor.*
- int [smi\\_ptp\\_delete\\_port\\_sdkapi](#) (struct smiclient\_globals \*azg, char \*ifname)  
*Delete PTP on a particular interface.*
- int [smi\\_ptp\\_api\\_enable\\_syntonization](#) (struct smiclient\_globals \*azg, u\_int32\_t sync\_msg\_count)  
*Syntonize the clock which adjusts the local clock's signal to match the frequency of the master clock. Two clock's are syntonized if the duration of the second is same on both, which means the time as measured by each advances at the same rate.*
- int [smi\\_ptp\\_api\\_disable\\_syntonization](#) (struct smiclient\_globals \*azg, u\_int32\_t sync\_msg\_coun)  
*Disable syntonization.*

### 2.1.1 Detailed Description

Provides APIs for the configuration and moniroting of Precision Time Protocol (PTP) implementation by ZebOS. Precision Time Protocol(PTP), as specified in IEEE standard 1588-2008, is a distributed protocol that specifies how real time clocks in the system synchronize with each other. PTP operates within a logical scope called a domain. The clocks are organized in a master-slave synchronization hierarchy. The grandmaster clock is at the top of the heirarchy and determines the reference time for the entire

system. Slaves use the timing information to adjust their clocks to match the time of their master in the heirarchy. Clocks are synchronized by exchanging messages.

## 2.1.2 Function Documentation

### 2.1.2.1 `int smi_ptp_api_clock_port_create (struct smiclient_globals * azg, char * ifname, u_int8_t transport_type)`

Use this API to enable PTP on an interface. `smi_ptp_api_clock_port_create`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *transport\_type* Transport Type, can be one of the following
  - 0 - PTP\_ETHER
  - 1 - PTP\_UDP\_V4
  - 2 - PTP\_UDP\_V6

#### Returns:

0 on success, -1 on error

### 2.1.2.2 `s_int32_t smi_ptp_api_clock_slave_only_disable (struct smiclient_globals * azg, char * ifname)`

Disable salve-only mode for a clock. `smi_ptp_api_clock_slave_only_disable`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name

#### Returns:

0 on success, -1 on error

### 2.1.2.3 `s_int32_t smi_ptp_api_clock_slave_only_enable (struct smiclient_globals * azg, char * ifname)`

Enable salve-only mode for a clock. `smi_ptp_api_clock_slave_only_enable`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name

#### Returns:

0 on success, -1 on error

**2.1.2.4** `int smi_ptp_api_create_clock (struct smiclient_globals * azg, char * br_name, u_int8_t clk_type, u_int8_t transport_type, u_int8_t delay_mechanism)`

Creates a PTP clock and specify clock states. `smi_ptp_api_create_clock`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *br\_name* Bridge name
- ← *clk\_type* Clock Type, can be one of the following
  - 0 - PTP\_ORDINARY\_CLOCK
  - 1 - PTP\_BOUNDARY\_CLOCK
  - 2 - PTP\_TRANSPARENT\_CLOCK
- ← *transport\_type* Transport Type, can be one of the following
  - 0 - PTP\_ETHER
  - 1 - PTP\_UDP\_V4
  - 2 - PTP\_UDP\_V6
- ← *delay\_mechanism* Propagation delay measuring option
  - 1 - E2E
  - 2 - P2P

**Returns:**

0 on success, -1 on error

**2.1.2.5** `s_int32_t smi_ptp_api_disable_bridge_global (struct smiclient_globals * azg, char * br_name)`

Disables PTP on a bridge. `smi_ptp_api_disable_bridge_global`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *br\_name* Bridge name on which PTP needs to be disabled

**Returns:**

0 on success, otherwise one of the following error codes  
 PTP\_ERR\_GENERIC  
 PTP\_ERR\_BRIDGE\_NOT\_FOUND PTP\_ERR\_PTP\_NOT\_ENABLED

**2.1.2.6** `int smi_ptp_api_disable_syntonization (struct smiclient_globals * azg, u_int32_t sync_msg_coun)`

Disable syntonization. `smi_ptp_api_disable_syntonization`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *sync\_msg\_count* Number of sync messages after which syntonization is done.  
<50-500>

**Returns:**

0 on success, -1 on error

### 2.1.2.7 `s_int32_t smi_ptp_api_enable_bridge_global (struct smiclient_globals * azg, char * br_name)`

Enables PTP on a bridge. `smi_ptp_api_enable_bridge_global`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- br\_name* Bridge name on which PTP needs to be enabled

**Returns:**

0 on success, otherwise one of the following error codes  
 PTP\_BRIDGE\_NOT\_FOUND  
 PTP\_INTERFACE\_NOT\_FOUND  
 PTP\_INTERFACE\_ENABELED\_NO\_PORT\_DATA  
 PTP\_MEMORY\_ALLOC  
 PTP\_PORT\_NOT\_FOUND  
 PTP\_CLOCK\_NOT\_FOUND

### 2.1.2.8 `int smi_ptp_api_enable_syntonization (struct smiclient_globals * azg, u_int32_t sync_msg_count)`

Syntonize the clock which adjusts the local clock's signal to match the frequency of the master clock. Two clock's are syntonized if the duration of the second is same on both, which means the time as measured by each advances at the same rate. `smi_ptp_api_enable_syntonization`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *sync\_msg\_count* Number of sync messages after which syntonization is done.  
<50-500>

**Returns:**

0 on success, -1 on error

### 2.1.2.9 int smi\_ptp\_api\_fault\_recover (struct smiclient\_globals \* *azg*, char \* *ifname*)

Change the port state from faulty to listening. smi\_ptp\_api\_fault\_recover

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *br\_name* Bridge name
- ← *ifname* Interface name

#### Returns:

0 on success, -1 on error

### 2.1.2.10 int smi\_ptp\_api\_set\_announce\_interval (struct smiclient\_globals \* *azg*, char \* *ifname*, s\_int8\_t *announce\_interval*)

Sets the interval for announce messages with status and characterization information about the transmitting device. The receiver uses this information to determine the best master clock. This value is the logarithm to the base 2 of the mean time between successive announce messages. smi\_ptp\_api\_set\_announce\_interval

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *announce\_interval* the value of announce interval to be set

#### Returns:

0 on success, -1 on error

### 2.1.2.11 int smi\_ptp\_api\_set\_clock\_priority1 (struct smiclient\_globals \* *azg*, char \* *br\_name*, char \* *ifname*, u\_int8\_t *priority1*)

Sets the priority1 value of the clock. PTP uses priority1 and priority2 values to determine the best master clock in a domain. smi\_ptp\_api\_set\_clock\_priority1

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *br\_name* Bridge name
- ← *ifname* Interface name
- ← *priority1* Priority1 value, <0-255>. Lower the value, higher the priority

#### Returns:

0 on success, -1 on error

### 2.1.2.12 `int smi_ptp_api_set_clock_priority2 (struct smiclient_globals * azg, char * br_name, char * ifname, u_int8_t priority2)`

Sets the priority2 value of the clock. PTP uses priority1 and priority2 values to determine the best master clock in a domain. `smi_ptp_api_set_clock_priority2`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *br\_name* Bridge name
- ← *ifname* Interface name
- ← *priority2* Priority2 value, <0-255>. Lower the value, higher the priority.

#### Returns:

0 on success, -1 on error

### 2.1.2.13 `int smi_ptp_api_set_delay_req_interval (struct smiclient_globals * azg, char * ifname, u_int8_t delay_interval)`

Sets the propagation delay measuring interval. `smi_ptp_api_set_delay_req_interval`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *delay\_interval* Delay request interval in seconds, log base 2 <0-5>

#### Returns:

0 on success, -1 on error

### 2.1.2.14 `int smi_ptp_api_set_qualification_timer (struct smiclient_globals * azg, char * ifname, s_int8_t qual_interval)`

Sets the number of announce intervals that a clock spends in the PRE\_MASTER state allowing changes to propagate from possible masters visible from the port. `smi_ptp_api_set_qualification_timer`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *qual\_interval* The value of qualification\_interval to be set

#### Returns:

0 on success, -1 on error

**2.1.2.15** `int smi_ptp_api_set_sync_interval (struct smiclient_globals * azg, char * ifname, s_int8_t sync_interval)`

Sets the mean time in seconds between clock synchronization messages. Master clocks transmit synchronization messages to their slaves. This value is the logarithm to the base 2 of the mean time in seconds between successive clock synchronization messages. `smi_ptp_api_set_sync_interval`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *sync\_interval* The value of synchronization interval in seconds to be set

**Returns:**

0 on success, -1 on error

**2.1.2.16** `int smi_ptp_api_unicast_disable (struct smiclient_globals * azg, char * ifname)`

Disable PTP unicast on an interface. `smi_ptp_api_unicast_disable`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name

**Returns:**

0 on success, -1 on error

**2.1.2.17** `int smi_ptp_api_unicast_enable (struct smiclient_globals * azg, char * ifname, s_int16_t max_table_size)`

Enable PTP unicast on an interface. `smi_ptp_api_unicast_enable`

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *max\_table\_size* Maximum size of the unicast neighbor table

**Returns:**

0 on success, -1 on error

### 2.1.2.18 `int smi_ptp_api_unicast_neighbor_add_ethernet (struct smiclient_globals * azg, char * ifname, char * addr)`

Add a unicast neighbor. `smi_ptp_api_unicast_neighbor_add_ethernet`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *addr* Neighbor address to be added

#### Returns:

0 on success, -1 on error

### 2.1.2.19 `int smi_ptp_api_unicast_neighbor_add_udpV4 (struct smiclient_globals * azg, char * ifname, char * addr)`

Add a unicast neighbor. `smi_ptp_api_unicast_neighbor_add_udpV4`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *addr* Neighbor address to be added

#### Returns:

0 on success, -1 on error

### 2.1.2.20 `int smi_ptp_api_unicast_neighbor_add_udpV6 (struct smiclient_globals * azg, char * ifname, char * addr)`

Add a unicast neighbor. `smi_ptp_api_unicast_neighbor_add_udpV6`

#### Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *addr* Neighbor address to be added

#### Returns:

0 on success, -1 on error



**2.1.2.21** `int smi_ptp_api_unicast_neighbor_del_all (struct smiclient_globals *  
azg, char * ifname)`

Removes all unicast neighbor. smi\_ptp\_api\_unicast\_neighbor\_del\_all

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *addr* Neighbor address to be removed

**Returns:**

0 on success, -1 on error

**2.1.2.22** `int smi_ptp_api_unicast_neighbor_del_ethernet (struct  
smiclient_globals * azg, char * ifname, char * addr)`

Removes a unicast neighbor. smi\_ptp\_api\_unicast\_neighbor\_del\_ethernet

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *addr* Neighbor address to be removed

**Returns:**

0 on success, -1 on error

**2.1.2.23** `int smi_ptp_api_unicast_neighbor_del_udpV4 (struct  
smiclient_globals * azg, char * ifname, char * addr)`

Removes a unicast neighbor. smi\_ptp\_api\_unicast\_neighbor\_del\_udpV4

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *addr* Neighbor address to be removed

**Returns:**

0 on success, -1 on error

**2.1.2.24 int smi\_ptp\_api\_unicast\_neighbor\_del\_udpV6 (struct smiclient\_globals \* *azg*, char \* *ifname*, char \* *addr*)**

Removes a unicast neighbor. smi\_ptp\_api\_unicast\_neighbor\_del\_udpV6

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name
- ← *addr* Neighbor address to be removed

**Returns:**

0 on success, -1 on error

**2.1.2.25 int smi\_ptp\_delete\_port\_sdkapi (struct smiclient\_globals \* *azg*, char \* *ifname*)**

Delete PTP on a particular interface. smi\_ptp\_delete\_port\_sdkapi

**Parameters:**

- ← *azg* Pointer to the SMI client global structure
- ← *ifname* Interface name

**Returns:**

0 on success, -1 on error

# Index

- smi\_ptp.h, [3](#)
  - smi\_ptp\_api\_clock\_port\_create, [6](#)
  - smi\_ptp\_api\_clock\_slave\_only\_-  
disable, [6](#)
  - smi\_ptp\_api\_clock\_slave\_only\_-  
enable, [6](#)
  - smi\_ptp\_api\_create\_clock, [6](#)
  - smi\_ptp\_api\_disable\_bridge\_global,  
[7](#)
  - smi\_ptp\_api\_disable\_syntonization,  
[7](#)
  - smi\_ptp\_api\_enable\_bridge\_global,  
[8](#)
  - smi\_ptp\_api\_enable\_syntonization,  
[8](#)
  - smi\_ptp\_api\_fault\_recover, [8](#)
  - smi\_ptp\_api\_set\_announce\_interval,  
[9](#)
  - smi\_ptp\_api\_set\_clock\_priority1, [9](#)
  - smi\_ptp\_api\_set\_clock\_priority2, [9](#)
  - smi\_ptp\_api\_set\_delay\_req\_-  
interval, [10](#)
  - smi\_ptp\_api\_set\_qualification\_-  
timer, [10](#)
  - smi\_ptp\_api\_set\_sync\_interval, [10](#)
  - smi\_ptp\_api\_unicast\_disable, [11](#)
  - smi\_ptp\_api\_unicast\_enable, [11](#)
  - smi\_ptp\_api\_unicast\_neighbor\_-  
add\_ethernet, [11](#)
  - smi\_ptp\_api\_unicast\_neighbor\_-  
add\_udpV4, [12](#)
  - smi\_ptp\_api\_unicast\_neighbor\_-  
add\_udpV6, [12](#)
  - smi\_ptp\_api\_unicast\_neighbor\_-  
del\_all, [12](#)
  - smi\_ptp\_api\_unicast\_neighbor\_-  
del\_ethernet, [13](#)
  - smi\_ptp\_api\_unicast\_neighbor\_-  
del\_udpV4, [13](#)
  - smi\_ptp\_api\_unicast\_neighbor\_-  
del\_udpV6, [13](#)
  - smi\_ptp\_delete\_port\_sdkapi, [14](#)
- smi\_ptp\_api\_clock\_port\_create  
smi\_ptp.h, [6](#)
- smi\_ptp\_api\_clock\_slave\_only\_disable  
smi\_ptp.h, [6](#)
- smi\_ptp\_api\_clock\_slave\_only\_enable  
smi\_ptp.h, [6](#)
- smi\_ptp\_api\_create\_clock  
smi\_ptp.h, [6](#)
- smi\_ptp\_api\_disable\_bridge\_global  
smi\_ptp.h, [7](#)
- smi\_ptp\_api\_disable\_syntonization  
smi\_ptp.h, [7](#)
- smi\_ptp\_api\_enable\_bridge\_global  
smi\_ptp.h, [8](#)
- smi\_ptp\_api\_enable\_syntonization  
smi\_ptp.h, [8](#)
- smi\_ptp\_api\_fault\_recover  
smi\_ptp.h, [8](#)
- smi\_ptp\_api\_set\_announce\_interval  
smi\_ptp.h, [9](#)
- smi\_ptp\_api\_set\_clock\_priority1  
smi\_ptp.h, [9](#)
- smi\_ptp\_api\_set\_clock\_priority2  
smi\_ptp.h, [9](#)
- smi\_ptp\_api\_set\_delay\_req\_interval  
smi\_ptp.h, [10](#)
- smi\_ptp\_api\_set\_qualification\_timer  
smi\_ptp.h, [10](#)
- smi\_ptp\_api\_set\_sync\_interval  
smi\_ptp.h, [10](#)
- smi\_ptp\_api\_unicast\_disable  
smi\_ptp.h, [11](#)
- smi\_ptp\_api\_unicast\_enable  
smi\_ptp.h, [11](#)
- smi\_ptp\_api\_unicast\_neighbor\_add\_-  
ethernet  
smi\_ptp.h, [11](#)
- smi\_ptp\_api\_unicast\_neighbor\_add\_-  
udpV4  
smi\_ptp.h, [12](#)

smi\_ptp\_api\_unicast\_neighbor\_add\_-  
    udpV6  
    smi\_ptp.h, [12](#)  
smi\_ptp\_api\_unicast\_neighbor\_del\_all  
    smi\_ptp.h, [12](#)  
smi\_ptp\_api\_unicast\_neighbor\_del\_-  
    ethernet  
    smi\_ptp.h, [13](#)  
smi\_ptp\_api\_unicast\_neighbor\_del\_-  
    udpV4  
    smi\_ptp.h, [13](#)  
smi\_ptp\_api\_unicast\_neighbor\_del\_-  
    udpV6  
    smi\_ptp.h, [13](#)  
smi\_ptp\_delete\_port\_sdkapi  
    smi\_ptp.h, [14](#)