

ZebOS-XP LLDP SMI Reference
IP Infusion Inc.

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Contents

1	Data Structure Index	1
1.1	Data Structures	1
2	File Index	3
2.1	File List	3
3	Data Structure Documentation	5
3.1	smi_lldp_port Struct Reference	5
3.2	smi_msg_lldp Struct Reference	6
3.3	smi_port_lldp_statistics Struct Reference	7
3.4	smi_remote_lldp Struct Reference	8
4	File Documentation	9
4.1	smi_lldp.h File Reference	9
4.1.1	Detailed Description	12
4.1.2	Define Documentation	12
4.1.2.1	SMI_LLDP_LOGICAL_PORT	12
4.1.3	Function Documentation	13
4.1.3.1	smi_lldp_api_port_disable	13
4.1.3.2	smi_lldp_api_port_enable	13
4.1.3.3	smi_lldp_api_port_info	13
4.1.3.4	smi_lldp_debug_off	14
4.1.3.5	smi_lldp_debug_on	14
4.1.3.6	smi_lldp_get_all_port_statistics	14
4.1.3.7	smi_lldp_get_chassis_id_type	15
4.1.3.8	smi_lldp_get_chassis_ip_address	15

4.1.3.9	smi_lldp_get_hwaddr	15
4.1.3.10	smi_lldp_get_port	16
4.1.3.11	smi_lldp_get_port_admin_status	16
4.1.3.12	smi_lldp_get_port_basic_tlvs_enable	16
4.1.3.13	smi_lldp_get_port_msg_tx_hold	17
4.1.3.14	smi_lldp_get_port_msg_tx_interval	17
4.1.3.15	smi_lldp_get_port_reinit_delay	18
4.1.3.16	smi_lldp_get_port_statistics	18
4.1.3.17	smi_lldp_get_port_too_many_neighbors	18
4.1.3.18	smi_lldp_get_port_tx_delay	19
4.1.3.19	smi_lldp_get_rem_macs_on_port	19
4.1.3.20	smi_lldp_get_system_description	20
4.1.3.21	smi_lldp_get_system_name	20
4.1.3.22	smi_lldp_port_get_locally_assigned	20
4.1.3.23	smi_lldp_port_set_locally_assigned	21
4.1.3.24	smi_lldp_set_chassis_id_type	21
4.1.3.25	smi_lldp_set_chassis_ip_address	22
4.1.3.26	smi_lldp_set_hwaddr	22
4.1.3.27	smi_lldp_set_port_basic_tlvs_enable	22
4.1.3.28	smi_lldp_set_port_msg_tx_hold	23
4.1.3.29	smi_lldp_set_port_msg_tx_interval	23
4.1.3.30	smi_lldp_set_port_reinit_delay	23
4.1.3.31	smi_lldp_set_port_too_many_neighbors	24
4.1.3.32	smi_lldp_set_port_tx_delay	24
4.1.3.33	smi_lldp_set_system_description	25
4.1.3.34	smi_lldp_set_system_name	25
4.2	smi_lldp_msg.h File Reference	26
4.2.1	Detailed Description	29

Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

smi_lldp_port	5
smi_msg_lldp	6
smi_port_lldp_statistics	7
smi_remote_lldp	8

Chapter 2

File Index

2.1 File List

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

smi_lldp.h (Provides APIs for managing Link Layer Discovery Protocol (LLDP) in ZebOS)	9
smi_lldp_msg.h (Defines data structures used by LLDP SMI APIs)	26

Chapter 3

Data Structure Documentation

3.1 smi_lldp_port Struct Reference

Data Fields

- `bool_t dcbx_state`
- `u_int8_t admin_status`
- `u_int8_t hw_addr` [INTERFACE_HWADDR_MAX]

The documentation for this struct was generated from the following file:

- [smi_lldp_msg.h](#)

3.2 smi_msg_lldp Struct Reference

Data Fields

- smi_cindex_t **cindex**
- u_int32_t **lldp_debug**
- char **if_name** [INTERFACE_NAMSIZ]
- char **hwaddr** [SMI_ETHER_ADDR_LEN]
- u_int8_t **admin_status**
- u_char **sys_name** [LLDP_NAME_MAX_LEN]
- u_char **agt_ckt_id** [LLDP_NAME_MAX_LEN]
- u_char **descriptor** [LLDP_DESCR_MAX_LEN]
- u_char **name** [LLDP_LOCAL_MAX_LEN]
- u_char **mac** [SMI_ETHER_ADDR_LEN]
- u_char **remote_mac** [SMI_ETHER_ADDR_LEN]
- u_char **rem_mac_array** [SMI_NUM_REC][SMI_ETHER_ADDR_LEN]
- u_int16_t **tlv_flag**
- u_int32_t **tx_hold**
- u_int32_t **tx_interval**
- u_int32_t **delay**
- u_int32_t **limit**
- u_int32_t **interval**
- u_int32_t **credit**
- u_int32_t **fast_init**
- u_int8_t **type**
- u_int32_t **tx_delay**
- struct [smi_remote_lldp](#) **rlldp**
- struct [smi_port_lldp_statistics](#) **port_lldp_stat**
- enum smi_lldp_chassis_id_sub_type **chassis_id_type**
- char **ipaddress** [SMI_IPADDRESS_SIZE]
- int **first_call**
- int8_t **set_flag**
- struct [smi_lldp_port](#) **port_info**

The documentation for this struct was generated from the following file:

- [smi_lldp_msg.h](#)

3.3 smi_port_lddp_statistics Struct Reference

Data Fields

- u_int32_t frames_out_total
- u_int32_t ageouts_total
- u_int32_t frames_discarded_total
- u_int32_t frames_in_errors_total
- u_int32_t frames_in_total
- u_int32_t tlvs_discarded_total
- u_int32_t tlvs_unrecognized_total

The documentation for this struct was generated from the following file:

- [smi_lddp_msg.h](#)

3.4 smi_remote_lldp Struct Reference

Data Fields

- `u_int8_t remote_chassic_comp`
- `u_int8_t remote_port_comp`
- `u_char remote_mac_addr [SMI_ETHER_ADDR_LEN]`
- `u_int16_t rx_ttl`
- `u_int32_t rxinfo_ttl_rem_secs`
- `u_char remote_nw_addr [SMI_NETWORK_ADDR_LENGTH]`
- `u_char remote_ifname [INTERFACE_NAMSIZ+1]`
- `u_char remote_local [LLDP_LOCAL_MAX_LEN+1]`
- `u_char remote_descr [LLDP_DESCR_MAX_LEN+1]`
- `u_int8_t remote_if_numbering`
- `u_int32_t remote_if_number`
- `u_int16_t remote_port_vlan_id`
- `u_int8_t remote_ppvid_flag`
- `u_int16_t remote_pp_vlan_id`
- `struct smi_vlan_bmp remote_vlanbmap`
- `u_int16_t remote_protocol`
- `u_int8_t remote_autonego_support`
- `u_int16_t remote_autonego_cap`
- `u_int16_t remote_oper_mau_type`
- `u_int8_t remote_link_aggr_status`
- `u_int32_t remote_link_aggr_id`
- `u_int16_t remote_max_frame_size`
- `u_char remote_sys_name [LLDP_NAME_MAX_LEN+1]`
- `u_char remote_sys_descr [LLDP_DESCR_MAX_LEN+1]`
- `u_int16_t remote_sys_cap`
- `u_int16_t remote_sys_cap_enabled`
- `u_char remote_mgmt_addr [SMI_MGMT_ADDR_LENGTH]`
- `u_char remote_oid [SMI_OID_LEN_MAX]`
- `smi_time_t time_mark [SMI_TIME_MARK_INDEX_MAX]`
- `u_char time_mark_index`
- `u_int32_t remote_index`
- `u_int32_t remote_unknown_tlv_type`
- `u_char * remote_unknown_tlv_info`
- `u_int32_t remote_org_def_type`
- `u_char * remote_org_def_info`

The documentation for this struct was generated from the following file:

- [smi_lldp_msg.h](#)

Chapter 4

File Documentation

4.1 smi_lldp.h File Reference

Provides APIs for managing Link Layer Discovery Protocol (LLDP) in ZebOS.

```
#include "smi_client.h"
```

Defines

- `#define SMI_LLDP_LOGICAL_PORT(ifname)`

Functions

- int [smi_lldp_api_port_disable](#) (struct smiclient_globals *azg, char *ifname)
Disables LLDP on specified port.
- int [smi_lldp_api_port_enable](#) (struct smiclient_globals *azg, char *ifname, u_int8_t admin_status)
Enables LLDP on specified port.
- int [smi_lldp_port_set_locally_assigned](#) (struct smiclient_globals *azg, char *ifname, u_char *name)
Sets the port name to a locally assigned alphanumeric string.
- int [smi_lldp_port_get_locally_assigned](#) (struct smiclient_globals *azg, char *ifname, u_char *name)
Gets the locally assigned alphanumeric name of a given port.
- int [smi_lldp_set_port_basic_tlvs_enable](#) (struct smiclient_globals *azg, char *ifname, u_int16_t tlv_flag)
Sets the TLVs to be enabled for transmission on a port.

- `int smi_lldp_get_port_basic_tlvs_enable` (struct smiclient_globals *azg, char *ifname, u_int16_t *tlv_flag)
Gets the TLVs enabled for transmission on a given port.
- `int smi_lldp_set_port_msg_tx_hold` (struct smiclient_globals *azg, char *ifname, u_int32_t tx_hold)
Sets the message transmit hold parameter that determines the TTL value for LLDP PDU to be transmitted by the port.
- `int smi_lldp_get_port_msg_tx_hold` (struct smiclient_globals *azg, char *ifname, u_int32_t *tx_hold)
Gets the message transmit hold parameter that determines the TTL value for LLDP PDU to be transmitted by the port.
- `int smi_lldp_set_port_msg_tx_interval` (struct smiclient_globals *azg, char *ifname, u_int32_t tx_interval)
Sets the interval at which LLDP frames are transmitted.
- `int smi_lldp_get_port_msg_tx_interval` (struct smiclient_globals *azg, char *ifname, u_int32_t *tx_interval)
Gets the interval at which LLDP frames are transmitted.
- `int smi_lldp_set_port_reinit_delay` (struct smiclient_globals *azg, char *ifname, u_int32_t reinit_delay)
Sets the delay time between when LLDP is disabled on a port and an attempt is made to reinitialize it.
- `int smi_lldp_get_port_reinit_delay` (struct smiclient_globals *azg, char *ifname, u_int32_t *reinit_delay)
Gets the delay time between when LLDP is disabled on a port and an attempt is made to reinitialize it.
- `int smi_lldp_set_port_too_many_neighbors` (struct smiclient_globals *azg, char *ifname, u_int32_t limit, u_int8_t type, u_char *mac, u_int32_t interval)
Sets the action to be taken when LLDP remote table is full.
- `int smi_lldp_get_port_too_many_neighbors` (struct smiclient_globals *azg, char *ifname, u_int32_t *limit, u_int8_t type, u_char *mac, u_int32_t *interval)
Get the values related to too-many-neighbors configuration for a specified port.
- `int smi_lldp_set_port_tx_delay` (struct smiclient_globals *azg, char *ifname, u_int32_t tx_delay)
Sets the delay time between successive transmission of LLDP frames.
- `int smi_lldp_get_port_tx_delay` (struct smiclient_globals *azg, char *ifname, u_int32_t *tx_delay)
Gets the delay time between successive transmission of LLDP frames.

- int [smi_lldp_set_system_description](#) (struct smiclient_globals *azg, u_char *descriptor)
Sets LLDP system description as provided.
- int [smi_lldp_get_system_description](#) (struct smiclient_globals *azg, u_char *descriptor)
Gets LLDP system description.
- int [smi_lldp_set_system_name](#) (struct smiclient_globals *azg, u_char *sys_name)
Sets LLDP system name as provided.
- int [smi_lldp_get_system_name](#) (struct smiclient_globals *azg, u_char *sys_name)
Gets LLDP system name.
- int [smi_lldp_get_port](#) (struct smiclient_globals *azg, char *ifname, char *rem_mac, struct [smi_remote_lldp](#) *rlldp)
Gets the Remote LLDP parameters for a known neighbor MAC on a port.
- int [smi_lldp_get_rem_macs_on_port](#) (struct smiclient_globals *azg, char *ifname, char rem_mac_arr[SMI_NUM_REC][SMI_ETHER_ADDR_LEN], int first_call, char *start_mac)
Gets the bitmap of the remote ports on an interface.
- int [smi_lldp_get_port_statistics](#) (struct smiclient_globals *azg, char *ifname, struct [smi_port_lldp_statistics](#) *port_lldp_stat)
Gets LLDP Port statistics.
- int [smi_lldp_set_hwaddr](#) (struct smiclient_globals *azg, char *hwaddr)
Sets LLDP HW address.
- int [smi_lldp_get_hwaddr](#) (struct smiclient_globals *azg, char *hwaddr)
Gets LLDP HW address.
- int [smi_lldp_set_chassis_id_type](#) (struct smiclient_globals *azg, char *ifname, enum smi_lldp_chassis_id_sub_type lldp_chassis_type)
Sets the chassis ID subtype on a port.
- int [smi_lldp_get_chassis_id_type](#) (struct smiclient_globals *azg, char *ifname, enum smi_lldp_chassis_id_sub_type *lldp_chassis_type)
Gets the chassis ID subtype set on a port.
- int [smi_lldp_set_chassis_ip_address](#) (struct smiclient_globals *azg, char *chassis_ipaddr)
Sets the chassis IP address.

- int [smi_lldp_get_chassis_ip_address](#) (struct smiclient_globals *azg, char *chassis_ipaddr)
Gets the chassis IP address.
- int [smi_lldp_get_port_admin_status](#) (struct smiclient_globals *azg, char *ifname, u_int8_t *admin_status)
Retrieves the admin status of an LLDP port.
- s_int32_t [smi_lldp_debug_on](#) (struct smiclient_globals *azg, u_int32_t debug)
Function enables the debug for lldp.
- s_int32_t [smi_lldp_debug_off](#) (struct smiclient_globals *azg, u_int32_t debug)
Function disables the debug for lldp.
- s_int32_t [smi_lldp_api_port_info](#) (struct smiclient_globals *azg, char *ifname, struct [smi_lldp_port](#) *port_info)
Retrieves the information of an LLDP port.
- int [smi_lldp_get_all_port_statistics](#) (struct smiclient_globals *azg, struct [smi_port_lldp_statistics](#) *port_lldp_stat)
Retrieves the information of all LLDP port statistics.

4.1.1 Detailed Description

Provides APIs for managing Link Layer Discovery Protocol (LLDP) in ZebOS. LLDP is a link layer protocol used by network elements for advertising their identity, capabilities and neighbours in an ethernet network. The APIs provided here enables a network management application to monitor and control ZebOS LLDP implementation.

4.1.2 Define Documentation

4.1.2.1 #define SMI_LLDP_LOGICAL_PORT(ifname)

Value:

```
((pal_strncmp (ifname, "po ", 2) == 0)           \
|| (pal_strncmp (ifname, "sa ", 2) == 0)         \
|| (pal_strncmp (ifname, "vlan", 3) == 0)        \
|| (pal_strstr (ifname, "."))                    \
|| (pal_strncmp (ifname, "lo ", 2) == 0))
```


4.1.3 Function Documentation

4.1.3.1 `int smi_lddp_api_port_disable (struct smiclient_globals * azg, char * ifname)`

Disables LLDP on specified port. `smi_lddp_api_port_disable`

Parameters:

- ← *azg* SMI Client global structure
- ← *ifname* Interface name on which LLDP needs to be disabled

Returns:

0 on success, otherwise one of the following error codes
LLDP_API_ERR_ONM_IF_NOT_EXIST
LLDP_API_ERR_LLDP_IF_NOT_EXIST
LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.1.3.2 `int smi_lddp_api_port_enable (struct smiclient_globals * azg, char * ifname, u_int8_t admin_status)`

Enables LLDP on specified port. `smi_lddp_api_port_enable`

Parameters:

- ← *azg* SMI Client global structure
- ← *ifname* Interface name on which LLDP needs to be enabled
- ← *admin_status* Admin status

Returns:

0 on success, otherwise one of the following error codes
LLDP_API_ERR_ONM_IF_NOT_EXIST
LLDP_API_ERR_LLDP_IF_NOT_EXIST
LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.1.3.3 `s_int32_t smi_lddp_api_port_info (struct smiclient_globals * azg, char * ifname, struct smi_lddp_port * port_info)`

Retrieves the information of an LLDP port. `smi_lddp_api_port_info`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which port information needs to be retrieved
- *port_info* where the final port information resides

Returns:

On success 0, otherwise returns `SMI_ERROR`

4.1.3.4 `s_int32_t smi_lddp_debug_off (struct smiclient_globals * azg, u_int32_t debug)`

Function disables the debug for lldp. `smi_lddp_debug_off`

Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *debug* disables the debug <0>

Returns:

SET_SUCCESS when the function succeeds, otherwise one of the following error codes
SET_ERROR

4.1.3.5 `s_int32_t smi_lddp_debug_on (struct smiclient_globals * azg, u_int32_t debug)`

Function enables the debug for lldp. `smi_lddp_debug_on`

Parameters:

- ← *azg* Pointer to the SMI client global structure
- ← *debug* enables the debug <1>

Returns:

SET_SUCCESS when the function succeeds, otherwise one of the following error codes
SET_ERROR

4.1.3.6 `int smi_lddp_get_all_port_statistics (struct smiclient_globals * azg, struct smi_port_lddp_statistics * port_lddp_stat)`

Retrieves the information of all LLDP port statistics. `smi_lddp_get_all_port_statistics`

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- *port_lddp_stats* where the final port information resides

Returns:

On success 0, otherwise returns SMI_ERROR

4.1.3.7 int smi_lddp_get_chassis_id_type (struct smiclient_globals * *azg*, char * *ifname*, enum smi_lddp_chassis_id_sub_type * *lldp_chassis_type*)

Gets the chassis ID subtype set on a port. smi_lddp_get_chassis_id_type

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- ← *ifname* Interface name for which chassis id type needs to be retrieved
- *lldp_chassis_id_type* Pointer to chassis ID type

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_ONM_IF_NOT_EXIST
LLDP_API_ERR_LLDP_IF_NOT_EXIST

4.1.3.8 int smi_lddp_get_chassis_ip_address (struct smiclient_globals * *azg*, char * *chassis_ipaddr*)

Gets the chassis IP address. smi_lddp_get_chassis_ip_address

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- ← *chassis_ipaddr* Pointer to Chassis IP address

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_LLDP_IP_ADDR_ERR
LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.1.3.9 int smi_lddp_get_hwaddr (struct smiclient_globals * *azg*, char * *hwaddr*)

Gets LLDP HW address. smi_lddp_set_hwaddr

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- *hwaddr* LLDP HW address

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.1.3.10 `int smi_lddp_get_port (struct smiclient_globals * azg, char * ifname, char * rem_mac, struct smi_remote_lddp * rlldp)`

Gets the Remote LLDP parameters for a known neighbor MAC on a port. `smi_lddp_get_port`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name associated with remote LLDP MAC
- ← *rem_mac* MAC address of the LLDP neighbor
- *rlldp* Remote LLDP information structure

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_ONM_IF_NOT_EXIST`
`LLDP_API_ERR_LLDP_IF_NOT_EXIST`
`LLDP_API_ERR_LLDP_REM_PORT_MAC_NOT_EXIST`

4.1.3.11 `int smi_lddp_get_port_admin_status (struct smiclient_globals * azg, char * ifname, u_int8_t * admin_status)`

Retrieves the admin status of an LLDP port. `smi_lddp_get_port_admin_status`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which admin status needs to be retrieved
- *admin_status* Administrative status of the port. It can be one of the following
1 - `LLDP_DISABLED` 2 - `LLDP_ENABLED_TX_ONLY`
4 - `LLDP_ENABLED_RX_ONLY`
8 - `LLDP_ENABLED_RX_TX`

Returns:

On success 0, otherwise one of the following error codes
`LLDP_API_ERR_LLDP_IF_NOT_EXIST`

4.1.3.12 `int smi_lddp_get_port_basic_tlvs_enable (struct smiclient_globals * azg, char * ifname, u_int16_t * tlv_flag)`

Gets the TLVs enabled for transmission on a given port. `smi_lddp_get_port_basic_tlvs_enable`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure

- ← *ifname* Interface name on which TLV should be enabled
- *tlv_flag* Flag identifying the TLVs enabled.

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_ONM_IF_NOT_EXISTS
LLDP_API_ERR_LLDP_IF_NOT_EXISTS

4.1.3.13 int smi_lddp_get_port_msg_tx_hold (struct smiclient_globals * azg, char * ifname, u_int32_t * tx_hold)

Gets the message transmit hold parameter that determines the TTL value for LLDP PDU to be transmitted by the port. smi_lddp_get_port_msg_tx_hold

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- ← *ifname* Interface name for which tx_hold needs to be retrieved
- *tx_hold* Pointer to Message Transmit hold time parameter value.

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_ONM_IF_NOT_EXISTS
LLDP_API_ERR_LLDP_IF_NOT_EXISTS

4.1.3.14 int smi_lddp_get_port_msg_tx_interval (struct smiclient_globals * azg, char * ifname, u_int32_t * tx_interval)

Gets the interval at which LLDP frames are transmitted. smi_lddp_get_port_msg_tx_interval

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- ← *ifname* Interface name for which tx_interval needs to be retrieved
- *tx_interval* The value of tx_interval

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_ONM_IF_NOT_EXISTS
LLDP_API_ERR_LLDP_IF_NOT_EXISTS

4.1.3.15 `int smi_lddp_get_port_reinit_delay (struct smiclient_globals * azg, char * ifname, u_int32_t * reinit_delay)`

Gets the delay time between when LLDP is disabled on a port and an attempt is made to reinitialize it. `smi_lddp_get_port_reinit_delay`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which reinitialization delay needs to be retrieved
- *reinit_delay* The pointer to reinitialization delay

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_ONM_IF_NOT_EXISTS`
`LLDP_API_ERR_LLDP_IF_NOT_EXISTS`

4.1.3.16 `int smi_lddp_get_port_statistics (struct smiclient_globals * azg, char * ifname, struct smi_port_lddp_statistics * port_lddp_stat)`

Gets LLDP Port statistics. `smi_lddp_get_port_statistics`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which LLDP port statistics needs to be retrieved.
- *port_lddp_stat* Pointer to LLDP port statistics structure

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_ONM_IF_NOT_EXIST`
`LLDP_API_ERR_LLDP_IF_NOT_EXIST`

4.1.3.17 `int smi_lddp_get_port_too_many_neighbors (struct smiclient_globals * azg, char * ifname, u_int32_t * limit, u_int8_t type, u_char * mac, u_int32_t * interval)`

Get the values related to too-many-neighbors configuration for a specified port. `smi_lddp_get_port_too_many_neighbors`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which too-many-neighbors configuration needs to be retrieved

- *limit* Pointer to the upper limit value for too many neighbours
- *discard_type* Too many neighbours discard value.
- *mac* Pointer MAC address of the remote LLDP agent for which too-many-neighbors configuration needs to be retrieved.
- *interval* Pointer to too-many-neighbors time interval

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_ONM_IF_NOT_EXISTS
 LLDP_API_ERR_LLDP_IF_NOT_EXISTS

4.1.3.18 int smi_lldp_get_port_tx_delay (struct smiclient_globals * azg, char * ifname, u_int32_t * tx_delay)

Gets the delay time between successive transmission of LLDP frames. smi_lldp_get_port_tx_delay

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- ← *ifname* Interface name for which LLDP transmission delay needs to be set
- *tx_delay* Pointer to the LLDP transmission delay

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_ONM_IF_NOT_EXISTS
 LLDP_API_ERR_LLDP_IF_NOT_EXISTS

4.1.3.19 int smi_lldp_get_rem_macs_on_port (struct smiclient_globals * azg, char * ifname, char rem_mac_arr[SMI_NUM_REC][SMI_ETHER_ADDR_LEN], int first_call, char * start_mac)

Gets the bitmap of the remote ports on an interface. smi_lldp_get_rem_macs_on_port

Parameters:

- ← *azg* Pointer to smiclient_globals structure
- ← *ifname* Interface name for which the remote port bitmap needs to be retrieved.
- *rem_mac_arr* bitmap of remote mac addresses
- ← *first_call* Whether this is the first call to this API
- ← *Starting* MAC address

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_ONM_IF_NOT_EXIST
 LLDP_API_ERR_LLDP_IF_NOT_EXIST
 LLDP_API_ERR_LLDP_REM_PORT_MAC_NOT_EXIST

4.1.3.20 int smi_lddp_get_system_description (struct smiclient_globals * azg, u_char * descriptor)

Gets LLDP system description. smi_lddp_get_system_description

Parameters:

← **azg** Pointer to smiclient_globals structure
 → **sys_description** LLDP system description string retrieved

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.1.3.21 int smi_lddp_get_system_name (struct smiclient_globals * azg, u_char * sys_name)

Gets LLDP system name. smi_lddp_get_system_name

Parameters:

← **azg** Pointer to smiclient_globals structure
 → **sys_name** Pointer to LLDP system name

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.1.3.22 int smi_lddp_port_get_locally_assigned (struct smiclient_globals * azg, char * ifname, u_char * name)

Gets the locally assigned alphanumeric name of a given port. smi_lddp_port_get_locally_assigned

Parameters:

← **azg** Pointer to smiclient_globals structure
 ← **ifname** Name of the interface

→ **name** Locally assigned name of the port

Returns:

0 on success. The output param name is filled with local. In case of error, one of the following error code is returned
 LLDP_API_ERR_ONM_IF_NOT_EXIST LLDP_API_ERR_LLDP_IF_NOT_EXIST

4.1.3.23 int smi_lddp_port_set_locally_assigned (struct smiclient_globals * azg, char * ifname, u_char * name)

Sets the port name to a locally assigned alphanumeric string. smi_lddp_port_set_locally_assigned

Parameters:

- ← **azg** Pointer to smiclient_globals structure
- ← **ifname** Name of the interface
- ← **name** Locally assigned alphanumeric string that identifies the port

Returns:

0 on success, otherwise one of the followign error code
 LLDP_API_ERR_ONM_IF_NOT_EXIST
 LLDP_API_ERR_LLDP_IF_NOT_EXIST

4.1.3.24 int smi_lddp_set_chassis_id_type (struct smiclient_globals * azg, char * ifname, enum smi_lddp_chassis_id_sub_type lldp_chassis_type)

Sets the chassis ID subtype on a port. smi_lddp_set_chassis_id_type

Parameters:

- ← **azg** Pointer to smiclient_globals structure
- ← **ifname** Interface name on which chassis ID subtype needs to be set
- ← **lldp_chassis_id_type** Chassis ID type to be set

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_LLDP_INVALID_CHASSIS_SUBTYPE
 LLDP_API_ERR_ONM_IF_NOT_EXIST
 LLDP_API_ERR_LLDP_IF_NOT_EXIST

4.1.3.25 `int smi_lddp_set_chassis_ip_address (struct smiclient_globals * azg, char * chassis_ipaddr)`

Sets the chassis IP address. `smi_lddp_set_chassis_ip_address`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *chassis_ipaddr* Chassis IP address to be set

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_LLDP_IP_ADDR_ERR`
`LLDP_API_ERR_LLDP_MASTER_NOT_EXIST`

4.1.3.26 `int smi_lddp_set_hwaddr (struct smiclient_globals * azg, char * hwaddr)`

Sets LLDP HW address. `smi_lddp_set_hwaddr`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *hwaddr* LLDP HW address to be set

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_LLDP_MASTER_NOT_EXIST`
`LLDP_API_ERR_LLDP_MAC_ADDR_ERR`

4.1.3.27 `int smi_lddp_set_port_basic_tlvs_enable (struct smiclient_globals * azg, char * ifname, u_int16_t tlv_flag)`

Sets the TLVs to be enabled for transmission on a port. `smi_lddp_set_port_basic_tlvs_enable`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name on which TLV should be enabled
- ← *tlv_flag* Flag identifying the TLV to be enabled.

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_ONM_IF_NOT_EXISTS`
`LLDP_API_ERR_LLDP_IF_NOT_EXISTS`

4.1.3.28 `int smi_lddp_set_port_msg_tx_hold (struct smiclient_globals * azg, char * ifname, u_int32_t tx_hold)`

Sets the message transmit hold parameter that determines the TTL value for LLDP PDU to be transmitted by the port. `smi_lddp_set_port_msg_tx_hold`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which `tx_hold` needs to be set
- ← *tx_hold* Message Transmit hold time parameter value.

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_ONM_IF_NOT_EXISTS`
`LLDP_API_ERR_LLDP_IF_NOT_EXISTS`
`LLDP_API_ERR_MSG_TX_INTERVAL_ERR`

4.1.3.29 `int smi_lddp_set_port_msg_tx_interval (struct smiclient_globals * azg, char * ifname, u_int32_t tx_interval)`

Sets the interval at which LLDP frames are transmitted. `smi_lddp_set_port_msg_tx_interval`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which `tx_interval` needs to be set
- ← *tx_interval* The value of `tx_interval` to be set

Returns:

0 on success, otherwise one of the following error code
`LLDP_API_ERR_ONM_IF_NOT_EXISTS`
`LLDP_API_ERR_LLDP_IF_NOT_EXISTS`
`LLDP_API_ERR_MSG_TX_INTERVAL_ERR`

4.1.3.30 `int smi_lddp_set_port_reinit_delay (struct smiclient_globals * azg, char * ifname, u_int32_t reinit_delay)`

Sets the delay time between when LLDP is disabled on a port and an attempt is made to reinitialize it. `smi_lddp_set_port_reinit_delay`

Parameters:

- ← *azg* Pointer to `smiclient_globals` structure
- ← *ifname* Interface name for which reinitialization delay needs to be set

← *reinit_delay* The value of reinitialization delay

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_ONM_IF_NOT_EXISTS
 LLDP_API_ERR_LLDP_IF_NOT_EXISTS

4.1.3.31 int smi_lddp_set_port_too_many_neighbors (struct smiclient_globals * azg, char * ifname, u_int32_t limit, u_int8_t type, u_char * mac, u_int32_t interval)

Sets the action to be taken when LLDP remote table is full. smi_lddp_set_port_too_many_neighbors

Parameters:

← *azg* Pointer to smiclient_globals structure
 ← *ifname* Interface name for which the set action will be applied
 ← *limit* the upper limit value for too many neighbours
 ← *discard_type* Too many neighbours discard types. Possible values are
 TOO_MANY_NEIGHBORS_DISCARD_NONE (0)
 TOO_MANY_NEIGHBORS_EXISTING_INFO (1)
 TOO_MANY_NEIGHBORS_RECEIVED_INFO (2)
 ← *mac* The MAC address of the remote LLDP agent for which the specified action will be taken
 ← *interval* The period in seconds after which specified action will be taken

Returns:

0 on success, otherwise one of the following error code
 LLDP_API_ERR_ONM_IF_NOT_EXISTS
 LLDP_API_ERR_LLDP_IF_NOT_EXISTS
 LLDP_API_ERR_LLDP_MAC_ADDR_ERR

4.1.3.32 int smi_lddp_set_port_tx_delay (struct smiclient_globals * azg, char * ifname, u_int32_t tx_delay)

Sets the delay time between successive transmission of LLDP frames. smi_lddp_set_port_tx_delay

Parameters:

← *azg* Pointer to smiclient_globals structure
 ← *ifname* Interface name for which LLDP transmission delay needs to be set
 ← *tx_delay* The value of LLDP transmission delay

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_ONM_IF_NOT_EXISTS
LLDP_API_ERR_LLDP_IF_NOT_EXISTS
LLDP_API_ERR_TX_DELAY_ERR

4.1.3.33 int smi_lddp_set_system_description (struct smiclient_globals * azg, u_char * *descriptor*)

Sets LLDP system description as provided. smi_lddp_set_system_description

Parameters:

← *azg* Pointer to smiclient_globals structure
← *sys_description* LLDP system description string to be set

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.1.3.34 int smi_lddp_set_system_name (struct smiclient_globals * azg, u_char * *sys_name*)

Sets LLDP system name as provided. smi_lddp_set_system_name

Parameters:

← *azg* Pointer to smiclient_globals structure
← *sys_name* LLDP system name to be set

Returns:

0 on success, otherwise one of the following error code
LLDP_API_ERR_LLDP_MASTER_NOT_EXIST

4.2 smi_lddp_msg.h File Reference

Defines data structures used by LLDP SMI APIs. `#include "smi_message.h"`

Data Structures

- struct [smi_remote_lddp](#)
- struct [smi_port_lddp_statistics](#)
- struct [smi_lddp_port](#)
- struct [smi_msg_lddp](#)

Defines

- `#define SMI_MSG_LLDP_SIZE 4`
- `#define LLDP_LOCAL_MAX_LEN 255`
- `#define LLDP_DESCR_MAX_LEN 255`
- `#define LLDP_NAME_MAX_LEN 255`
- `#define SMI_LLDP_HOLD_MIN 2`
- `#define SMI_LLDP_HOLD_MAX 10`
- `#define SMI_LLDP_INTERVAL_MIN 5`
- `#define SMI_LLDP_INTERVAL_MAX 32768`
- `#define SMI_REINIT_DELAY_MIN 1`
- `#define SMI_REINIT_DELAY_MAX 10`
- `#define SMI_LLDP_NEIGHBORS_LIMIT_MIN 1`
- `#define SMI_LLDP_NEIGHBORS_LIMIT_MAX 65535`
- `#define SMI_LLDP_NEIGHBORS_INTERVAL_MIN 1`
- `#define SMI_LLDP_NEIGHBORS_INTERVAL_MAX 65535`
- `#define SMI_TX_DELAY_MIN 1`
- `#define SMI_TX_DELAY_MAX 8192`
- `#define SMI_NETWORK_ADDR_LENGTH 4`
- `#define SMI_TIME_MARK_INDEX_MAX 10`
- `#define SMI_MGMT_ADDR_LENGTH 31`
- `#define SMI_OID_LEN_MAX 128`
- `#define SMI_LLDP_ENABLED_RX_ONLY 2`
- `#define SMI_LLDP_ENABLED_TX_ONLY 4`
- `#define SMI_LLDP_ENABLED_RX_TX 8`
- `#define SMI_LLDPV2_MSG_FAST_TX_MIN 1`
- `#define SMI_LLDPV2_MSG_FAST_TX_MAX 3600`
- `#define SMI_LLDPV2_MSG_TX_HOLD_MIN 1`
- `#define SMI_LLDPV2_MSG_TX_HOLD_MAX 100`
- `#define SMI_LLDPV2_MSG_TX_INTERVAL_MIN 1`
- `#define SMI_LLDPV2_MSG_TX_INTERVAL_MAX 3600`
- `#define SMI_LLDPV2_TX_CREDIT_MAX_MIN 1`
- `#define SMI_LLDPV2_TX_CREDIT_MAX_MAX 10`
- `#define SMI_LLDPV2_TX_FAST_INIT_MIN 1`

- #define SMI_LLDPV2_TX_FAST_INIT_MAX 8
- #define SMI_LLDPV2_TOO_MANY_NBR_LIMIT_MIN 1
- #define SMI_LLDPV2_TOO_MANY_NBR_LIMIT_MAX 65535
- #define SMI_LLDPV2_TOO_MANY_NBR_TIMER_MIN 1
- #define SMI_LLDPV2_TOO_MANY_NBR_TIMER_MAX 65535
- #define SMI_LLDPV2_REINIT_DELAY_MIN 1
- #define SMI_LLDPV2_REINIT_DELAY_MAX 10
- #define IF_MAU_AUTONEG_SUPPORTED (1 << 0)
- #define IF_MAU_AUTONEG_ENABLED (1 << 1)
- #define AUTONEGO_BOTHER 0
- #define AUTONEGO_B10BASET 1
- #define AUTONEGO_B10BASETFD 2
- #define AUTONEGO_B100BASET4 3
- #define AUTONEGO_B100BASETX 4
- #define AUTONEGO_B100BASETXFD 5
- #define AUTONEGO_B100BASET2 6
- #define AUTONEGO_B100BASET2FD 7
- #define AUTONEGO_BFDXPAUSE 8
- #define AUTONEGO_BFDXAPAUSE 9
- #define AUTONEGO_BFDXSPAUSE 10
- #define AUTONEGO_BFDXBPAUSE 11
- #define AUTONEGO_B1000BASEX 12
- #define AUTONEGO_B1000BASEXFD 13
- #define AUTONEGO_B1000BASET 14
- #define AUTONEGO_B1000BASETFD 15
- #define ONM_AGGREGATION_CAPABLE (1 << 0)
- #define ONM_AGGREGATION_ENABLE (1 << 1)
- #define TOO_MANY_NEIGHBOURS_DISCARD_NONE 0
- #define TOO_MANY_NEIGHBOURS_EXISTING_INFO 1
- #define TOO_MANY_NEIGHBOURS_RECIEVED_INFO 2
- #define SMI_CHASSIS_ID_TLV_TX_ENABLE (1 << 0)
- #define SMI_PORT_ID_TLV_TX_ENABLE (1 << 1)
- #define SMI_TTL_TLV_TX_ENABLE (1 << 2)
- #define SMI_PORT_DESCRIPTION_TLV_TX_ENABLE (1 << 3)
- #define SMI_SYSTEM_NAME_TLV_TX_ENABLE (1 << 4)
- #define SMI_SYSTEM_DESCRIPTION_TLV_TX_ENABLE (1 << 5)
- #define SMI_SYSTEM_CAPABILITIES_TLV_TX_ENABLE (1 << 6)
- #define SMI_MANAGEMENT_ADDRESS_TLV_TX_ENABLE (1 << 7)
- #define SMI_IEEE_8021_ORG_SPECIFIC_TLV_TX_ENABLE (1 << 8)
- #define SMI_IEEE_8023_ORG_SPECIFIC_TLV_TX_ENABLE (1 << 9)
- #define SMI_IPADDRESS_SIZE 16
- #define IFHWASIZ 20
- #define INTERFACE_HWADDR_MAX (IFHWASIZ)
- #define SMI_LLDP_CTYPE_IFNAME 0
- #define SMI_LLDP_CTYPE_ADMINSTATUS 1
- #define SMI_LLDP_CTYPE_LOCALSTRING 2

- `#define SMI_LLDP_CTYPE_ENABLETLV 3`
- `#define SMI_LLDP_CTYPE_TXHOLDVALUE 4`
- `#define SMI_LLDP_CTYPE_TXINTERVAL 5`
- `#define SMI_LLDP_CTYPE_REINITDELAY 6`
- `#define SMI_LLDP_CTYPE_LIMIT 7`
- `#define SMI_LLDP_CTYPE_TYPE 8`
- `#define SMI_LLDP_CTYPE_MAC 9`
- `#define SMI_LLDP_CTYPE_INTERVAL 10`
- `#define SMI_LLDP_CTYPE_TXDELAY 11`
- `#define SMI_LLDP_CTYPE_DESCRIPTOR 12`
- `#define SMI_LLDP_CTYPE_SYSTEMNAME 13`
- `#define SMI_LLDP_CTYPE_HWADDR 14`
- `#define SMI_LLDP_CTYPE_PORT 15`
- `#define SMI_LLDP_CTYPE_STATPORT 16`
- `#define SMI_LLDP_CTYPE_REM_MAC_ARRAY 17`
- `#define SMI_LLDP_CTYPE_CHASSISID_TYPE 18`
- `#define SMI_LLDP_CTYPE_CHASSIS_IP 19`
- `#define SMI_LLDP_CTYPE_FIRST_CALL 20`
- `#define SMI_LLDP_CTYPE_SET_FLAG 21`
- `#define SMI_LLDP_CTYPE_AGT_CKT_ID 22`
- `#define SMI_LLDP_CTYPE_CREDIT 23`
- `#define SMI_LLDP_FAST_INIT 24`
- `#define SMI_LLDP_CTYPE_REMOTE_MAC 25`
- `#define SMI_LLDP_CTYPE_DEBUG 26`
- `#define SMI_LLDP_CTYPE_PORT_INFO 27`
- `#define SMI_LLDP_CTYPE_ALL_STATPORT 28`

Enumerations

- `enum smi_lddp_chassis_id_sub_type {`
`SMI_LLDP_CHASSIS_ID_CHASSIS_COMPONENT, SMI_LLDP_`
`CHASSIS_ID_IF_ALIAS, SMI_LLDP_CHASSIS_ID_PORT_`
`COMPONENT, SMI_LLDP_CHASSIS_ID_MAC_ADDRESS,`
`SMI_LLDP_CHASSIS_ID_IP_ADDRESS, SMI_LLDP_CHASSIS_ID_`
`IF_NAME, SMI_LLDP_CHASSIS_ID_LOCAL, SMI_LLDP_CHASSIS_`
`ID_INVALID }`

Functions

- `void smi_lddp_dump (struct lib_globals *zg, struct smi_msg_lddp *msg)`
- `int smi_encode_ldpmsg (u_char **pnt, u_int16_t *size, struct smi_msg_lddp *msg)`
- `int smi_decode_ldpmsg (u_char **pnt, u_int16_t *size, struct smi_msg_lddp *msg)`
- `int smi_parse_lddp (u_char **pnt, u_int16_t *size, struct smi_msg_header *header, void *arg, SMI_CALLBACK callback)`

4.2.1 Detailed Description

Defines data structures used by LLDP SMI APIs.

Index

- smi_lldp.h, 9
 - smi_lldp_api_port_disable, 13
 - smi_lldp_api_port_enable, 13
 - smi_lldp_api_port_info, 13
 - smi_lldp_debug_off, 13
 - smi_lldp_debug_on, 14
 - smi_lldp_get_all_port_statistics, 14
 - smi_lldp_get_chassis_id_type, 14
 - smi_lldp_get_chassis_ip_address, 15
 - smi_lldp_get_hwaddr, 15
 - smi_lldp_get_port, 15
 - smi_lldp_get_port_admin_status, 16
 - smi_lldp_get_port_basic_tlvs_enable, 16
 - smi_lldp_get_port_msg_tx_hold, 17
 - smi_lldp_get_port_msg_tx_interval, 17
 - smi_lldp_get_port_reinit_delay, 17
 - smi_lldp_get_port_statistics, 18
 - smi_lldp_get_port_too_many_neighbors, 18
 - smi_lldp_get_port_tx_delay, 19
 - smi_lldp_get_rem_macs_on_port, 19
 - smi_lldp_get_system_description, 20
 - smi_lldp_get_system_name, 20
 - SMI_LLDP_LOGICAL_PORT, 12
 - smi_lldp_port_get_locally_assigned, 20
 - smi_lldp_port_set_locally_assigned, 21
 - smi_lldp_set_chassis_id_type, 21
 - smi_lldp_set_chassis_ip_address, 21
 - smi_lldp_set_hwaddr, 22
 - smi_lldp_set_port_basic_tlvs_enable, 22
 - smi_lldp_set_port_msg_tx_hold, 22
 - smi_lldp_set_port_msg_tx_interval, 23
 - smi_lldp_set_port_reinit_delay, 23
 - smi_lldp_set_port_too_many_neighbors, 24
 - smi_lldp_set_port_tx_delay, 24
 - smi_lldp_set_system_description, 25
 - smi_lldp_set_system_name, 25
- smi_lldp_api_port_disable
 - smi_lldp.h, 13
- smi_lldp_api_port_enable
 - smi_lldp.h, 13
- smi_lldp_api_port_info
 - smi_lldp.h, 13
- smi_lldp_debug_off
 - smi_lldp.h, 13
- smi_lldp_debug_on
 - smi_lldp.h, 14
- smi_lldp_get_all_port_statistics
 - smi_lldp.h, 14
- smi_lldp_get_chassis_id_type
 - smi_lldp.h, 14
- smi_lldp_get_chassis_ip_address
 - smi_lldp.h, 15
- smi_lldp_get_hwaddr
 - smi_lldp.h, 15
- smi_lldp_get_port
 - smi_lldp.h, 15
- smi_lldp_get_port_admin_status
 - smi_lldp.h, 16
- smi_lldp_get_port_basic_tlvs_enable
 - smi_lldp.h, 16
- smi_lldp_get_port_msg_tx_hold
 - smi_lldp.h, 17
- smi_lldp_get_port_msg_tx_interval
 - smi_lldp.h, 17
- smi_lldp_get_port_reinit_delay
 - smi_lldp.h, 17
- smi_lldp_get_port_statistics
 - smi_lldp.h, 18
- smi_lldp_get_port_too_many_neighbors
 - smi_lldp.h, 18

smi_lldp_get_port_tx_delay
 smi_lldp.h, [19](#)
smi_lldp_get_rem_macs_on_port
 smi_lldp.h, [19](#)
smi_lldp_get_system_description
 smi_lldp.h, [20](#)
smi_lldp_get_system_name
 smi_lldp.h, [20](#)
SMI_LLDP_LOGICAL_PORT
 smi_lldp.h, [12](#)
smi_lldp_msg.h, [26](#)
smi_lldp_port, [5](#)
smi_lldp_port_get_locally_assigned
 smi_lldp.h, [20](#)
smi_lldp_port_set_locally_assigned
 smi_lldp.h, [21](#)
smi_lldp_set_chassis_id_type
 smi_lldp.h, [21](#)
smi_lldp_set_chassis_ip_address
 smi_lldp.h, [21](#)
smi_lldp_set_hwaddr
 smi_lldp.h, [22](#)
smi_lldp_set_port_basic_tlvs_enable
 smi_lldp.h, [22](#)
smi_lldp_set_port_msg_tx_hold
 smi_lldp.h, [22](#)
smi_lldp_set_port_msg_tx_interval
 smi_lldp.h, [23](#)
smi_lldp_set_port_reinit_delay
 smi_lldp.h, [23](#)
smi_lldp_set_port_too_many_neighbors
 smi_lldp.h, [24](#)
smi_lldp_set_port_tx_delay
 smi_lldp.h, [24](#)
smi_lldp_set_system_description
 smi_lldp.h, [25](#)
smi_lldp_set_system_name
 smi_lldp.h, [25](#)
smi_msg_lldp, [6](#)
smi_port_lldp_statistics, [7](#)
smi_remote_lldp, [8](#)