ZebOS-XP MLD SMI Reference IP Infusion Inc.

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Chapter 1

File Index

1.1 File List

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2 File Index

Chapter 2

File Documentation

2.1 smi_mld.h File Reference

Provides API for managing Multicast Listener Discovery protocol implementation in ZebOS. #include "smi client.h"

```
#include "smi_mld_msg.h"
```

Functions

int smi_mrib6_mld_limit_set_sdkapi (struct smiclient_globals *azg, char *vrf_name, u int32 t limit, char *except alist)

This function sets the limit for group-record states across all interfaces in the specified MLD instance. Exception list is specified to exclude certain groups on which limit value will not be applied.

int smi_mrib6_mld_limit_unset_sdkapi (struct smiclient_globals *azg, char *vrf name)

This function unsets the limit for group-record states across all interfaces in the specified MLD Instance.

• int smi_mrib6_mld_ssm_map_enable_set_sdkapi (struct smiclient_globals *azg, char *vrf_name)

This function enables Source-Specific-Mapping (SSM) at instance level.

• int smi_mrib6_mld_ssm_map_enable_unset_sdkapi (struct smiclient_globals *azg, char *vrf_name)

This function disables Source-Specific-Mapping (SSM) at instance level.

• int smi_mrib6_mld_ssm_map_static_set_sdkapi (struct smiclient_globals *azg, char *vrf_name, char *alist, char *msrc_arg)

This function sets Source-Specific-Mapping (SSM) static definition at instance level. The specified source address will be used to produce (G,S)SSM mapping for

the group address defined as the supplied access-list reference string. This function may be invoked multiple times to define multiple SSM mappings.

• int smi_mrib6_mld_ssm_map_static_unset_sdkapi (struct smiclient_globals *azg, char *vrf_name, char *alist, char *msrc_arg)

This function unsets Source-Specific-Mapping (SSM) identified by the supplied access-list reference string and source-address string.

• int smi_mrib6_mld_if_set_sdkapi (struct smiclient_globals *azg, char *ifname)

This function enables MLD protocol feature on the specified interface.

• int smi_mrib6_mld_if_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function disables MLD protocol feature on the specified interface.

• int smi_mrib6_mld_if_access_list_set_sdkapi (struct smiclient_globals *azg, char *ifname, char *alist)

This function sets the MLD access-list for the specified interface.

int smi_mrib6_mld_if_access_list_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets the MLD access-list.

• int smi_mrib6_mld_if_immediate_leave_set_sdkapi (struct smiclient_globals *azg, char *ifname, char *alist)

This function minimizes the leave latency of MLD membership. Interface configured for MLD layer-3 protocols will be applied. alist contains group name for which immediate leave feature is enabled.

• int smi_mrib6_mld_if_immediate_leave_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function disables the minimization of leave latency feature of MLD membership.

• int smi_mrib6_mld_if_lmqc_set_sdkapi (struct smiclient_globals *azg, char *ifname, u_int32_t lmqc)

This function sets Last-Member-Query-Count(LMQC) value.

• int smi_mrib6_mld_if_lmqc_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets Last-Member-Query-Count(LMQC) value.

• int smi_mrib6_mld_if_lmqi_set_sdkapi (struct smiclient_globals *azg, char *ifname, u_int32_t lmqi)

This function sets Last-Member-Query-Interval(LMQI) value. This API sets the frequency at which routers will send MLD group specific host query messages.

 int smi_mrib6_mld_if_lmqi_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets Last-Member-Query-Interval(LMQI) value.

• int smi_mrib6_mld_if_limit_set_sdkapi (struct smiclient_globals *azg, char *ifname, u int32 t limit, char *except alist)

This function sets the limit for group-record states on the specified interface and MLD Instance. An exception access list can be specified to exclude certain groups from being subject to this limit value.

• int smi_mrib6_mld_if_limit_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets the limit and exception access-list for group-record states on the specified interface and MLD instance.

• int smi_mrib6_mld_if_mroute_pxy_set_sdkapi (struct smiclient_globals *azg, char *ifname, char *mrtr_pxy_ifname)

This function sets Proxy-servive interface association for the specified interface. It makes upstream Proxy service interface functional.

• int smi_mrib6_mld_if_mroute_pxy_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets Proxy-servive interface association on the specified downstream interface.

• int smi_mrib6_mld_if_pxy_service_set_sdkapi (struct smiclient_globals *azg, char *ifname)

This function sets the specified interface for MLD proxy-service.

 int smi_mrib6_mld_if_pxy_service_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets MLD proxy-service on the specified interface.

• int smi_mrib6_mld_if_querier_timeout_set_sdkapi (struct smiclient_globals *azg, char *ifname, u_int16_t other_querier_interval)

This function sets the MLD other-querier timeout. It configures the timeout period before the router can become querier for the interface after the previous querier has stopped querying.

• int smi_mrib6_mld_if_querier_timeout_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets the MLD other-querior timeout.

• int smi_mrib6_mld_if_query_interval_set_sdkapi (struct smiclient_globals *azg, char *ifname, u_int32_t query_interval)

This function sets the MLD query interval value. It configures the frequency at which MLD host query message is sent over the specified interface.

• int smi_mrib6_mld_if_query_interval_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets the MLD query interval value.

• int smi_mrib6_mld_if_startup_query_interval_set_sdkapi (struct smiclient_-globals *azg, char *ifname, u_int32_t startup_query_interval)

This function sets the MLD startup query interval value. It configures the frequency at which MLD host query message is sent over the specified interface on startup.

• int smi_mrib6_mld_if_startup_query_interval_unset_sdkapi (struct smiclient_-globals *azg, char *ifname)

This function unsets the MLD startup query interval value.

• int smi_mrib6_mld_if_startup_query_count_set_sdkapi (struct smiclient_-globals *azg, char *ifname, u_int32_t startup_query_count)

This function sets the MLD startup query count value. It configures the number of times host query message is sent over the specified interface on startup.

int smi_mrib6_mld_if_startup_query_count_unset_sdkapi (struct smiclient_-globals *azg, char *ifname)

This function unsets the MLD startup query count value.

• int smi_mrib6_mld_if_query_response_interval_set_sdkapi (struct smiclient_-globals *azg, char *ifname, u_int32_t response_interval)

This function sets the MLD query-max-response time advertised in MLD queries.

int smi_mrib6_mld_if_query_response_interval_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets the MLD query-response interval value.

• int smi_mrib6_mld_if_robustness_var_set_sdkapi (struct smiclient_globals *azg, char *ifname, u_int32_t robustness_var)

This function sets the robustness variable on the specified interface.

• int smi_mrib6_mld_if_robustness_var_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This fucntion unsets the robustness variable on the specified interface.

• int smi_mrib6_mld_if_version_set_sdkapi (struct smiclient_globals *azg, char *ifname, u_int16_t version)

This function sets the MLD version.

• int smi_mrib6_mld_if_version_unset_sdkapi (struct smiclient_globals *azg, char *ifname)

This function unsets the MLD version.

int smi_mrib6_mld_if_static_group_source_set_sdkapi (struct smiclient_-globals *azg, char *ifname, char *mcg_addr, char *src_addr, bool_t is_ssm_-mapped)

This function sets the MLD static group.

• int smi_mrib6_mld_if_static_group_source_unset_sdkapi (struct smiclient_-globals *azg, char *ifname, char *mcg_addr, char *src_addr, bool_t is_ssm_-mapped)

This function unsets the MLD static group.

int smi_mrib6_mld_clear_sdkapi (struct smiclient_globals *azg, char *vrf_name)

This function clears MLD state information.

• int smi_debug_ipv6_mld_sdkapi (struct smiclient_globals *azg, char *vrf_name, int debug)

Use this function to enable debugging of all MLD, or a specific component of MLD. This command applies to interfaces configured for MLD Layer-3 multicast protocols.

int smi_debug_no_ipv6_mld_sdkapi (struct smiclient_globals *azg, char *vrf_name, int debug)

Use this function to disable all MLD debugging or debugging of a specific component of MLD.

- int **smi_show_ipv6_mld_interface** (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, char *ifname, struct list *ipv6MldInfoList, int(*funpointer)(struct list *ipv6MldInfoList))
- int **smi_show_ipv6_mld_ssm_map** (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, u_int16_t mli_cflags_enable, u_int16_t mli_cflags_static)
- int **smi_show_ipv6_mld_group** (struct smiclient_globals *azg, u_int32_-t vr_id, char *vrf_name, bool_t detail_flag, struct list *ipv6MldInfoList, int(*funpointer)(struct list *ipv6MldInfoList))
- int smi_show_ipv6_mld_groups_by_ifname (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, char *ifname, bool_t detail_flag, struct list *ipv6MldInfoList, int(*funpointer)(struct list *ipv6MldInfoList))
- int smi_show_ipv6_mld_groups_by_addr (struct smiclient_globals *azg, u_int32_t vr_id, char *vrf_name, bool_t detail_flag, char *addr, struct list *ipv6MldInfoList, int(*funpointer)(struct list *ipv6MldInfoList))

2.1.1 Detailed Description

Provides API for managing Multicast Listener Discovery protocol implementation in ZebOS. IPv6 Multicast Listener Discovery (MLD) is used by IPv6 devices to discover multicast listeners on directly attached links.

2.1.2 Function Documentation

2.1.2.1 int smi_debug_ipv6_mld_sdkapi (struct smiclient_globals * azg, char * vrf_name, int debug)

Use this function to enable debugging of all MLD, or a specific component of MLD. This command applies to interfaces configured for MLD Layer-3 multicast protocols. smi_debug_ipv6_mld_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← vrf_name VRF NAME. Pass Null in case of default VRF
- ← *debug* Pass debug flag as following:

```
SMI_MLD_DECODE_FLAG - Debug MLD decoding
```

SMI_MLD_ENCODE_FLAG - Debug MLD encoding

SMI MLD EVENTS FLAG - Debug MLD events

SMI_MLD_FSM_FLAG - Debug MLD Finite State Machine (FSM)

SMI_MLD_TIB_FLAG - Debug MLD Tree Information Base (TIB)

SMI_MLD_ALL_FLAG - Debug all MLD

Returns:

0 on success, otherwise one of the following error codes IGMP_ERR_NO_-CONTEXT_INFO SMI_ERROR

2.1.2.2 int smi_debug_no_ipv6_mld_sdkapi (struct smiclient_globals * azg, char * vrf_name, int debug)

Use this function to disable all MLD debugging or debugging of a specific component of MLD. smi_debug_no_ipv6_mld_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrf_name* VRF NAME. Pass Null in case of default VRF
- ← *debug* Pass debug flag as following:

```
SMI_MLD_DECODE_FLAG - Debug MLD decoding
```

SMI_MLD_ENCODE_FLAG - Debug MLD encoding

SMI_MLD_EVENTS_FLAG - Debug MLD events

SMI_MLD_FSM_FLAG - Debug MLD Finite State Machine (FSM)

SMI_MLD_TIB_FLAG - Debug MLD Tree Information Base (TIB)

SMI_MLD_ALL_FLAG - Debug all MLD

Returns:

0 on success, otherwise one of the following error codes IGMP_ERR_NO_-CONTEXT_INFO SMI_ERROR

2.1.2.3 int smi_mrib6_mld_clear_sdkapi (struct smiclient_globals * azg, char * vrf_name)

This function clears MLD state information. smi mrib6 mld clear sdkapi

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- ← *vrf_name* VRF name
- ← *ifname* Interface name string
- ← pgrp Pointer to the specified MLD group address to clear
- ← psrc Pointer to the specified source address to clear

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE MLD_ERR_NO_SUCH_IFF MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_DOOM

2.1.2.4 int smi_mrib6_mld_if_access_list_set_sdkapi (struct smiclient_globals * azg, char * ifname, char * alist)

This function sets the MLD access-list for the specified interface. smi_mrib6_mld_if_-access_list_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← alist Pointer to access-list name

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE MLD_ERR_L2_PHYSICAL_IF

```
MLD_ERR_NO_SUCH_IFF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_DOOM
MLD_ERR_GENERIC
MLD_ERR_OOM
```

2.1.2.5 int smi_mrib6_mld_if_access_list_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the MLD access-list. smi_mrib6_mld_if_access_list_unset_-sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_DOOM
MLD_ERR_GENERIC
MLD_ERR_OOM
```

2.1.2.6 int smi_mrib6_mld_if_immediate_leave_set_sdkapi (struct smiclient_globals * azg, char * ifname, char * alist)

This function minimizes the leave latency of MLD membership.Interface configured for MLD layer-3 protocols will be applied. alist contains group name for which immediate leave feature is enabled. smi_mrib6_mld_if_immediate_leave_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← alist Pointer to access-list name

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

```
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_GENERIC
MLD_ERR_OOM
```

2.1.2.7 int smi_mrib6_mld_if_immediate_leave_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function disables the minimization of leave latency feature of MLD membership. smi_mrib6_mld_if_immediate_leave_unset_sdkapi

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- \leftarrow *ifname* Interface name string

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_GENERIC
MLD_ERR_OOM
```

2.1.2.8 int smi_mrib6_mld_if_limit_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t limit, char * except_alist)

This function sets the limit for group-record states on the specified interface and MLD Instance. An exception access list can be specified to exclude certain groups from being subject to this limit value. smi_mrib6_mld_if_limit_set_sdkapi

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← *limit* Limit value numeric <1-2097152>
- ← except_alist Pointer to an access-list name

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_GENERIC
MLD_ERR_DOOM
```

2.1.2.9 int smi_mrib6_mld_if_limit_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the limit and exception access-list for group-record states on the specified interface and MLD instance. smi_mrib6_mld_if_limit_unset_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
MLD_ERR_INVALID_VALUE
MLD_ERR_MALFORMED_ARG
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
MLD_ERR_OOM
MLD_ERR_GENERIC
MLD_ERR_DOOM
```

2.1.2.10 int smi_mrib6_mld_if_lmqc_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t lmqc)

This function sets Last-Member-Query-Count(LMQC) value. smi_mrib6_mld_if_lmqc_set_sdkapi

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- \leftarrow *lmqc* The LMQC value numeric <2-7>

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD ERR NO SUCH IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.11 int smi_mrib6_mld_if_lmqc_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets Last-Member-Query-Count(LMQC) value. smi_mrib6_mld_if_lmqc_unset_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.12 int smi_mrib6_mld_if_lmqi_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t lmqi)

This function sets Last-Member-Query-Interval(LMQI) value. This API sets the frequency at which routers will send MLD group specific host query messages. smi_mrib6_mld_if_lmqi_set_sdkapi

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

← *lmqi* The LMQI value numeric <1000-25500>

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD ERR GENERIC

MLD ERR DOOM

2.1.2.13 int smi_mrib6_mld_if_lmqi_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets Last-Member-Query-Interval(LMQI) value. smi_mrib6_mld_if_-lmqi_unset_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

 $MLD_ERR_INVALID_VALUE$

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_GENERIC

MLD_ERR_OOM

MLD_ERR_DOOM

2.1.2.14 int smi_mrib6_mld_if_mroute_pxy_set_sdkapi (struct smiclient_globals * azg, char * ifname, char * mrtr_pxy_ifname)

This function sets Proxy-servive interface association for the specified interface. It makes upstream Proxy service interface functional. smi_mrib6_mld_if_mroute_pxy_-set_sdkapi

Parameters:

← azg Pointer to the SMI client global structure

- ← *ifname* Interface name string
- mrtr_pxy_ifname Pointer to the interface name of the upstream proxy-service interface

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD ERR MALFORMED ARG

MLD_ERR_CFG_FOR_PROXY_SERVICE

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD ERR OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.15 int smi_mrib6_mld_if_mroute_pxy_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets Proxy-servive interface association on the specified downstream interface. smi_mrib6_mld_if_mroute_pxy_unset_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD ERR INVALID VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_CFG_FOR_PROXY_SERVICE

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.16 int smi_mrib6_mld_if_pxy_service_set_sdkapi (struct smiclient_globals * azg, char * ifname)

This function sets the specified interface for MLD proxy-service. smi_mrib6_mld_if_pxy_service_set_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD ERR MALFORMED ARG

MLD ERR CFG WITH MROUTE PROXY

MLD ERR NO SUCH GROUP REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.17 int smi_mrib6_mld_if_pxy_service_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets MLD proxy-service on the specified interface. smi_mrib6_mld_-if_pxy_service_unset_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

 $MLD_ERR_MALFORMED_ARG$

MLD_ERR_CFG_WITH_MROUTE_PROXY

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD ERR DOOM

2.1.2.18 int smi_mrib6_mld_if_querier_timeout_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int16_t other_querier_interval)

This function sets the MLD other-querier timeout. It configures the timeout period before the router can become querier for the interface after the previous querier has

stopped querying . smi_mrib6_mld_if_querier_timeout_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← other_querier_interval MLD other-querior timeout value numeric <60-300>

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD ERR NO SUCH IFF

MLD ERR MALFORMED ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.19 int smi_mrib6_mld_if_querier_timeout_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the MLD other-querior timeout. smi_mrib6_mld_if_querier_timeout_unset_sdkapi

Parameters:

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

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.20 int smi_mrib6_mld_if_query_interval_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t query_interval)

This function sets the MLD query interval value. It configures the frequency at which MLD host query message is sent over the specified interface. smi_mrib6_mld_if_query_interval_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrf_name* VRF name
- ← *ifname* Interface name string
- ← query_interval The MLD query interval value numeric <1-18000>

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_QI_LE_QRI

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.21 int smi_mrib6_mld_if_query_interval_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the MLD query interval value. smi_mrib6_mld_if_query_interval_unset_sdkapi

Parameters:

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

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_QI_LE_QRI

MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
MLD_ERR_GENERIC
MLD_ERR_DOOM

2.1.2.22 int smi_mrib6_mld_if_query_response_interval_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t response_interval)

This function sets the MLD query-max-response time advertised in MLD queries. smi_mrib6_mld_if_query_response_interval_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← response interval MLD query-response interval value numeric <1-240>

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_QRI_GT_QI
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
MLD_ERR_GENERIC

2.1.2.23 int smi_mrib6_mld_if_query_response_interval_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the MLD query-response interval value. smi_mrib6_mld_if_query_response_interval_unset_sdkapi

Parameters:

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

MLD ERR DOOM

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

```
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_QRI_GT_QI
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
MLD_ERR_GENERIC
MLD_ERR_DOOM
```

2.1.2.24 int smi_mrib6_mld_if_robustness_var_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t robustness_var)

This function sets the robustness variable on the specified interface. smi_mrib6_mld_-if_robustness_var_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← robustness var Robustness variable value numeric <2-7>

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
MLD_ERR_GENERIC
MLD_ERR_DOOM
```

2.1.2.25 int smi_mrib6_mld_if_robustness_var_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This fucntion unsets the robustness variable on the specified interface. smi_mrib6_-mld if robustness var unset sdkapi

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.26 int smi_mrib6_mld_if_set_sdkapi (struct smiclient_globals * azg, char * ifname)

This function enables MLD protocol feature on the specified interface. smi_mrib6_-mld_if_set_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.27 int smi_mrib6_mld_if_startup_query_count_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t startup_query_count)

This function sets the MLD startup query count value. It configures the number of times host query message is sent over the specified interface on startup. smi_mrib6_-mld_if_startup_query_count_set_sdkapi

- ← azg Pointer to the SMI client global structure
- ← *vrf_name* VRF name

- ← *ifname* Interface name string
- ← *startup_query_interval* The MLD query interval value numeric <1-18000>

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD ERR QI LE QRI

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD ERR NO SUCH SOURCE REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.28 int smi_mrib6_mld_if_startup_query_count_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the MLD startup query count value. smi_mrib6_mld_if_startup_query_count_unset_sdkapi

Parameters:

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

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_QI_LE_QRI

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD ERR GENERIC

MLD_ERR_DOOM

2.1.2.29 int smi_mrib6_mld_if_startup_query_interval_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int32_t startup_query_interval)

This function sets the MLD startup query interval value. It configures the frequency at which MLD host query message is sent over the specified interface on startup. smi_mrib6_mld_if_startup_query_interval_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← vrf name VRF name
- ← *ifname* Interface name string
- ← startup_query_interval The MLD query interval value numeric <1-18000>

Returns:

MLD ERROR NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_QI_LE_QRI

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.30 int smi_mrib6_mld_if_startup_query_interval_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the MLD startup query interval value. smi_mrib6_mld_if_startup_query_interval_unset_sdkapi

Parameters:

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

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_QI_LE_QRI MLD_ERR_MALFORMED_ARG MLD_ERR_NO_SUCH_GROUP_REC MLD_ERR_NO_SUCH_SOURCE_REC MLD_ERR_OOM MLD_ERR_GENERIC MLD_ERR_DOOM

2.1.2.31 int smi_mrib6_mld_if_static_group_source_set_sdkapi (struct smiclient_globals * azg, char * ifname, char * mcg_addr, char * src_addr, bool_t is_ssm_mapped)

This function sets the MLD static group. smi_mrib6_mld_if_static_group_source_-set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← pgrp Pointer to specific MLD group address
- ← *psrc* Pointer to specific MLD source address
- ← *is_ssm_mapped* Whether the SSM-mapped entry is mapped

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD ERR INVALID VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_L3_NON_VLAN_IF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_OOM

2.1.2.32 int smi_mrib6_mld_if_static_group_source_unset_sdkapi (struct smiclient_globals * azg, char * ifname, char * mcg_addr, char * src_addr, bool_t is_ssm_mapped)

 $This \ function \ unsets \ the \ MLD \ static \ group. \ smi_mrib6_mld_if_static_group_source_-unset_sdkapi$

- \leftarrow azg Pointer to the SMI client global structure
- ← *ifname* Interface name string
- ← pgrp Pointer to specific MLD group address

- ← psrc Pointer to specific MLD source address
- ← *is_ssm_mapped* Whether the SSM-mapped entry is mapped

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD ERR L2 PHYSICAL IF

MLD ERR NO SUCH IFF

MLD_ERR_L3_NON_VLAN_IF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_OOM

2.1.2.33 int smi_mrib6_mld_if_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function disables MLD protocol feature on the specified interface. smi_mrib6_-mld_if_unset_sdkapi

Parameters:

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

Returns:

```
MLD_ERROR_NONE on success, otherwise one of the following error codes
```

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.34 int smi_mrib6_mld_if_version_set_sdkapi (struct smiclient_globals * azg, char * ifname, u_int16_t version)

This function sets the MLD version. smi_mrib6_mld_if_version_set_sdkapi

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

 \leftarrow *version* MLD version no numeric <1-2>

Returns:

MLD ERROR NONE on success, otherwise one of the following error codes

MLD ERR INVALID VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

 $MLD_ERR_NO_SUCH_GROUP_REC$

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

MLD ERR GENERIC

MLD_ERR_DOOM

2.1.2.35 int smi_mrib6_mld_if_version_unset_sdkapi (struct smiclient_globals * azg, char * ifname)

This function unsets the MLD version. smi_mrib6_mld_if_version_unset_sdkapi

Parameters:

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

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD ERR OOM

MLD_ERR_GENERIC

MLD_ERR_DOOM

2.1.2.36 int smi_mrib6_mld_limit_set_sdkapi (struct smiclient_globals * azg, char * vrf_name, u_int32_t limit, char * except_alist)

This function sets the limit for group-record states across all interfaces in the specified MLD instance. Exception list is specified to exclude certain groups on which limit value will not be applied. smi mrib6 mld limit set sdkapi

Parameters:

← azg Pointer to the SMI client global structure

- ← *vrf_name* VRF name
- ← *limit* Limit value numeric <1-2097152>
- ← except alist Pointer to an access-list name

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE MLD_ERR_MALFORMED_ARG MLD_ERR_OOM

2.1.2.37 int smi_mrib6_mld_limit_unset_sdkapi (struct smiclient_globals * azg, char * vrf name)

This function unsets the limit for group-record states across all interfaces in the specified MLD Instance. smi_mrib6_mld_limit_unset_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrf_name* VRF name

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE

2.1.2.38 int smi_mrib6_mld_ssm_map_enable_set_sdkapi (struct smiclient_globals * azg, char * vrf_name)

This function enables Source-Specific-Mapping (SSM) at instance level. smi_mrib6_mld_ssm_map_enable_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- *← vrf_name* VRF name

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE

2.1.2.39 int smi_mrib6_mld_ssm_map_enable_unset_sdkapi (struct smiclient_globals * azg, char * vrf_name)

This function disables Source-Specific-Mapping (SSM) at instance level. smi_mrib6_mld_ssm_map_enable_unset_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *vrf_name* VRF name

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE

2.1.2.40 int smi_mrib6_mld_ssm_map_static_set_sdkapi (struct smiclient_globals * azg, char * vrf_name, char * alist, char * msrc_arg)

This function sets Source-Specific-Mapping (SSM) static definition at instance level. The specified source address will be used to produce (G,S)SSM mapping for the group address defined as the supplied access-list reference string. This function may be invoked multiple times to define multiple SSM mappings. smi_mrib6_mld_ssm_-map_static_set_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- *← vrf_name* VRF name
- ← alist Pointer to group address access-list name
- ← msrc_arg Pointer to source address string

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE MLD_ERR_MALFORMED_ARG MLD_ERR_OOM

2.1.2.41 int smi_mrib6_mld_ssm_map_static_unset_sdkapi (struct smiclient_globals * azg, char * vrf_name, char * alist, char * msrc_arg)

This function unsets Source-Specific-Mapping (SSM) identified by the supplied access-list reference string and source-address string. smi_mrib6_mld_ssm_map_static_unset_sdkapi

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- *← vrf_name* VRF name
- \leftarrow *alist* Pointer to group address access-list name
- ← *msrc_arg* Pointer to source address string

Returns:

MLD_ERROR_NONE on success, otherwise one of the following error codes MLD_ERR_INVALID_VALUE MLD_ERR_MALFORMED_ARG MLD_ERR_NO_SUCH_VALUE

2.2 smi_mld_snooping.h File Reference

Describes the command API functions for managing the MLD Snooping. #include "smi_client.h"

#include "smi_mld_snooping_msg.h"

Functions

- s_int32_t smi_mld_snoop_api_set_snooping (struct smiclient_globals *azg)
 This function enables MLD Snooping on all interfaces of this instance not explicitly (individually) disabled for MLD Snooping. MLD Snooping is globally enabled by default.
- s_int32_t smi_mld_snoop_api_unset_snooping (struct smiclient_globals *azg)
 This function disables MLD Snooping on all interfaces of this instance not explicitly (individually) enabled for MLD Snooping.
- s_int32_t smi_mld_snoop_api_if_snooping_set (struct smiclient_globals *azg, char *ifname)

This function explicitly enables MLD Snooping on the specified VLAN interface.

• s_int32_t smi_mld_snoop_api_if_snooping_unset (struct smiclient_globals *azg, char *ifname)

This function explicitly disables MLD Snooping on the specified VLAN interface.It also unsets all configuration associated with MLD Snooping on the VLAN interface.

• s_int32_t smi_mld_snoop_api_if_fast_leave_set (struct smiclient_globals *azg, char *ifname)

This function enables fast-leave processing on the specified VLAN interface. Fast-leave processing is analogous to immediate-leave processing.

• s_int32_t smi_mld_snoop_api_if_fast_leave_unset (struct smiclient_globals *azg, char *ifname)

This function disables fast-leave processing on the specified VLAN interface.

• s_int32_t smi_mld_snoop_api_if_mrouter_set (struct smiclient_globals *azg, char *ifname, char *mrouter_ifname)

This function statically identifies a particular VLAN constituent interface as a multicast router (mrouter) interface for MLD Snooping on the specified VLAN interface. This function may be invoked multiple times to configure multiple VLAN constituent interfaces as mrouter interfaces.

• s_int32_t smi_mld_snoop_api_if_mrouter_unset (struct smiclient_globals *azg, char *ifname, char *mrouter_ifname)

This function unsets the static configuration of a VLAN constituent interface as an mrouter interface on the specified VLAN interface.

s_int32_t smi_mld_snoop_api_if_querier_set (struct smiclient_globals *azg, char *ifname)

This function enables MLD Snooping Querier functionality on the specified VLAN interface.

• s_int32_t smi_mld_snoop_api_if_querier_unset (struct smiclient_globals *azg, char *ifname)

This function disables MLD Snooping Querier functionality on the specified VLAN interface.

• s_int32_t smi_mld_snoop_api_if_report_suppress_set (struct smiclient_globals *azg, char *ifname)

This function enables MLD Snooping report-suppression on all constituent interfaces of the specified VLAN interface.

• s_int32_t smi_mld_snoop_api_if_report_suppress_unset (struct smiclient_globals *azg, char *ifname)

This function disables MLD Snooping report-suppression on all constituent interfaces of the specified VLAN interface.

• s_int32_t smi_mld_snoop_api_clear_if (struct smiclient_globals *azg, char *ifname)

Delete the Interface MLD entries of All groups of given interface.

• s_int32_t smi_mld_snoop_api_clear_group_if (struct smiclient_globals *azg, char *ip_addr, char *ifname)

Delete the MLD group cache entries of Given group on given interface.

- s_int32_t smi_mld_snoop_api_clear_all (struct smiclient_globals *azg)

 Delete the MLD groups cache entries of All groups from all interfaces.
- s_int32_t smi_mld_snoop_api_clear_group (struct smiclient_globals *azg, char *ip_addr)

 $Delete\ the\ MLD\ group\ cache\ entries\ of\ Given\ group\ from\ all\ interfaces.$

- int smi_debug_mld_snoop_sdkapi (struct smiclient_globals *azg, int debug)

 Use this function to enalbe all MLD SNOOPING debugging.
- int smi_debug_no_mld_snoop_sdkapi (struct smiclient_globals *azg, int debug)

Use this function to disable all MLD SNOOPING debugging.

- int smi_show_mld_snooping_interface (struct smiclient_globals *azg, u_int32_t vr_id, char *ifname, struct list *mldSnoopInfoList, int(*funpointer)(struct list *mldSnoopInfoList))
- int **smi_show_mld_snooping_mrouter_ifname** (struct smiclient_globals *azg, u_int32_t vr_id, char *ifname, struct list *ipMldSnoopMrouterList, int(*funpointer)(struct list *ipMldSnoopMrouterList))

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• int **smi_show_mld_snooping_statistics_ifname** (struct smiclient_globals *azg, u_int32_t vr_id, char *ifname, struct list *ipMldSnoopStatList, int(*funpointer)(struct list *ipMldSnoopStatList))

- int **smi_show_mld_snooping_groups_detail** (struct smiclient_globals *azg, u_int32_t vr_id, bool_t detail_flag, struct list *ipMldSnoopGroupList, int(*funpointer)(struct list *ipMldSnoopGroupList))
- int **smi_show_mld_snooping_groups_by_ifname** (struct smiclient_globals *azg, u_int32_t vr_id, bool_t detail_flag, char *ifname, struct list *ipMldSnoopGroupList, int(*funpointer)(struct list *ipMldSnoopGroupList))
- int **smi_show_mld_snooping_groups_by_addr** (struct smiclient_globals *azg, u_int32_t vr_id, bool_t detail_flag, char *grpAddr, struct list *ipMldSnoopGroupList, int(*funpointer)(struct list *ipMldSnoopGroupList))

2.2.1 Detailed Description

Describes the command API functions for managing the MLD Snooping. These APIs are used by various north bound management interfaces like CLI, SNMP and SMI

2.2.2 Function Documentation

2.2.2.1 int smi_debug_mld_snoop_sdkapi (struct smiclient_globals * azg, int debug)

Use this function to enalbe all MLD SNOOPING debugging. smi_debug_mld_snoop_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *debug* Pass debug flag as following:

SMI_MLD_SNOOP_DECODE_FLAG - Debug MLD decoding

SMI MLD SNOOP ENCODE FLAG - Debug MLD encoding

SMI_MLD_SNOOP_EVENTS_FLAG - Debug MLD events

SMI_MLD_SNOOP_FSM_FLAG - Debug MLD Finite State Machine (FSM)

SMI_MLD_SNOOP_TIB_FLAG - Debug MLD Tree Information Base (TIB)

SMI_MLD_SNOOP_ALL_FLAG - Debug all MLD

Returns:

0 on success, otherwise one of the following error codes MLD_ERR_NO_-CONTEXT_INFO SMI_ERROR

2.2.2.2 int smi_debug_no_mld_snoop_sdkapi (struct smiclient_globals * azg, int debug)

Use this function to disable all MLD SNOOPING debugging. smi_debug_no_mld_snoop_sdkapi

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *debug* Pass debug flag as following:

SMI_MLD_SNOOP_DECODE_FLAG - Debug MLD decoding

SMI_MLD_SNOOP_ENCODE_FLAG - Debug MLD encoding

SMI_MLD_SNOOP_EVENTS_FLAG - Debug MLD events

 $SMI_MLD_SNOOP_FSM_FLAG$ - Debug MLD Finite State Machine (FSM)

SMI_MLD_SNOOP_TIB_FLAG - Debug MLD Tree Information Base (TIB)

SMI_MLD_SNOOP_ALL_FLAG - Debug all MLD

Returns:

0 on success, otherwise one of the following error codes MLD_ERR_NO_-CONTEXT_INFO SMI_ERROR

2.2.2.3 s_int32_t smi_mld_snoop_api_clear_all (struct smiclient_globals * azg)

Delete the MLD groups cache entries of All groups from all interfaces. smi_mld_snoop_api_clear_all

Parameters:

← azg Pointer to the SMI client global structure

Returns:

Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NO_CONTEXT_INFO MLD_ERR_INVALID_VALUE

MLD_ERR_NO_SUCH_IFF

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_OOM

2.2.2.4 s_int32_t smi_mld_snoop_api_clear_group (struct smiclient_globals * azg, char * ip_addr)

Delete the MLD group cache entries of Given group from all interfaces. smi_mld_snoop_api_clear_group

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ip_addr* Multicast Group Address

Returns:

Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NO_CONTEXT_INFO MLD_ERR_INVALID_VALUE MLD_ERR_NO_SUCH_IFF MLD_ERR_NO_SUCH_GROUP_REC MLD_ERR_OOM

2.2.2.5 s_int32_t smi_mld_snoop_api_clear_group_if (struct smiclient_globals * azg, char * ip_addr, char * ifname)

Delete the MLD group cache entries of Given group on given interface. smi_mld_snoop_api_clear_group_if

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ip_addr* Multicast Group Address
- ← *ifname* Interface Name

Returns:

Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NO_CONTEXT_INFO MLD_ERR_INVALID_VALUE MLD_ERR_NO_SUCH_IFF MLD_ERR_NO_SUCH_GROUP_REC MLD_ERR_OOM

2.2.2.6 s_int32_t smi_mld_snoop_api_clear_if (struct smiclient_globals * azg, char * ifname)

Delete the Interface MLD entries of All groups of given interface. smi_mld_snoop_api_clear_if

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *ifname* Interface Name

Returns:

Return Success (i.e Zero), otherwise one of the following errors

MLD_ERR_NO_CONTEXT_INFO MLD_ERR_INVALID_VALUE MLD_ERR_NO_SUCH_IFF MLD_ERR_NO_SUCH_GROUP_REC MLD_ERR_OOM

2.2.2.7 s_int32_t smi_mld_snoop_api_if_fast_leave_set (struct smiclient_globals * azg, char * ifname)

This function enables fast-leave processing on the specified VLAN interface. Fast-leave processing is analogous to immediate-leave processing. smi_mld_snoop_api_-if_fast_leave_set

Parameters:

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

Returns:

Return Success (i.e Zero), otherwise one of the following errors

MLD_ERR_NONE

MLD_ERR_INVALID_VALUE

MLD ERR L2 PHYSICAL IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_L3_NON_VLAN_IF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

2.2.2.8 s_int32_t smi_mld_snoop_api_if_fast_leave_unset (struct smiclient_globals * azg, char * ifname)

This function disables fast-leave processing on the specified VLAN interface. smi_mld_snoop_api_if_fast_leave_unset

Parameters:

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

Returns:

Return Success (i.e Zero), otherwise one of the following errors

MLD_ERR_NONE

MLD_ERR_INVALID_VALUE

MLD_ERR_L2_PHYSICAL_IF

```
MLD_ERR_NO_SUCH_IFF
MLD_ERR_L3_NON_VLAN_IF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
```

2.2.2.9 s_int32_t smi_mld_snoop_api_if_mrouter_set (struct smiclient_globals * azg, char * ifname, char * mrouter_ifname)

This function statically identifies a particular VLAN constituent interface as a multicast router (mrouter) interface for MLD Snooping on the specified VLAN interface. This function may be invoked multiple times to configure multiple VLAN constituent interfaces as mrouter interfaces. smi_mld_snoop_api_if_mrouter_set

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface Name
- mrouter_ifname Pointer to the interface-name string of the VLAN constituent interface to be identified as the mrouter interface

Returns:

```
Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NONE
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_L3_NON_VLAN_IF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
```

2.2.2.10 s_int32_t smi_mld_snoop_api_if_mrouter_unset (struct smiclient_globals * azg, char * ifname, char * mrouter_ifname)

This function unsets the static configuration of a VLAN constituent interface as an mrouter interface on the specified VLAN interface. smi_mld_snoop_api_if_mrouter_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- ← *ifname* Interface Name
- mrouter_ifname Pointer to the interface-name string of the VLAN constituent interface to be identified as the mrouter interface

Returns:

```
Return Success (i.e Zero), otherwise one of the following errors
```

MLD_ERR_NONE

MLD_ERR_INVALID_VALUE

MLD ERR L2 PHYSICAL IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_L3_NON_VLAN_IF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

2.2.2.11 s_int32_t smi_mld_snoop_api_if_querier_set (struct smiclient_globals * azg, char * ifname)

This function enables MLD Snooping Querier functionality on the specified VLAN interface. smi_mld_snoop_api_if_querier_set

Parameters:

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

Returns:

Return Success (i.e Zero), otherwise one of the following errors

MLD_ERR_NONE

MLD ERR INVALID VALUE

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_NO_SUCH_IFF

MLD ERR L3 NON VLAN IF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

2.2.2.12 s_int32_t smi_mld_snoop_api_if_querier_unset (struct smiclient_globals * azg, char * ifname)

This function disables MLD Snooping Querier functionality on the specified VLAN interface. smi_mld_snoop_api_if_querier_unset

Parameters:

- ← azg Pointer to the SMI client global structure
- \leftarrow *ifname* Interface Name

Returns:

```
Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NONE
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_L3_NON_VLAN_IF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
```

2.2.2.13 s_int32_t smi_mld_snoop_api_if_report_suppress_set (struct smiclient_globals * azg, char * ifname)

This function enables MLD Snooping report-suppression on all constituent interfaces of the specified VLAN interface. smi_mld_snoop_api_if_report_suppress_set

Parameters:

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

MLD_ERR_OOM

Returns:

```
Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NONE
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_L3_NON_VLAN_IF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
```

2.2.2.14 s_int32_t smi_mld_snoop_api_if_report_suppress_unset (struct smiclient_globals * azg, char * ifname)

This function disables MLD Snooping report-suppression on all constituent interfaces of the specified VLAN interface. $smi_mld_snoop_api_if_report_suppress_unset$

Parameters:

- \leftarrow azg Pointer to the SMI client global structure
- \leftarrow *ifname* Interface Name

Returns:

```
Return Success (i.e Zero), otherwise one of the following errors
```

MLD_ERR_NONE

MLD_ERR_INVALID_VALUE

MLD ERR L2 PHYSICAL IF

MLD_ERR_NO_SUCH_IFF

MLD_ERR_L3_NON_VLAN_IF

MLD_ERR_MALFORMED_ARG

MLD_ERR_NO_SUCH_GROUP_REC

MLD_ERR_NO_SUCH_SOURCE_REC

MLD_ERR_OOM

2.2.2.15 s_int32_t smi_mld_snoop_api_if_snooping_set (struct smiclient_globals * azg, char * ifname)

This function explicitly enables MLD Snooping on the specified VLAN interface. smi_mld_snoop_api_if_snooping_set

Parameters:

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

Returns:

Return Success (i.e Zero), otherwise one of the following errors

MLD_ERR_L2_PHYSICAL_IF

MLD_ERR_VLAN_IF_NOT_RUNNING

MLD_ERR_INVALID_VALUE

MLD_ERR_NO_SUCH_IFF

MLD_ERR_L3_NON_VLAN_IF

MLD_ERR_NONE

2.2.2.16 s_int32_t smi_mld_snoop_api_if_snooping_unset (struct smiclient_globals * azg, char * ifname)

This function explicitly disables MLD Snooping on the specified VLAN interface. It also unsets all configuration associated with MLD Snooping on the VLAN interface. smi_mld_snoop_api_if_snooping_unset

Parameters:

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

Returns:

Return Success (i.e Zero), otherwise one of the following errors

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```
MLD_ERR_NONE
MLD_ERR_INVALID_VALUE
MLD_ERR_L2_PHYSICAL_IF
MLD_ERR_NO_SUCH_IFF
MLD_ERR_L3_NON_VLAN_IF
MLD_ERR_MALFORMED_ARG
MLD_ERR_NO_SUCH_GROUP_REC
MLD_ERR_NO_SUCH_SOURCE_REC
MLD_ERR_OOM
```

2.2.2.17 s_int32_t smi_mld_snoop_api_set_snooping (struct smiclient_globals * azg)

This function enables MLD Snooping on all interfaces of this instance not explicitly (individually) disabled for MLD Snooping. MLD Snooping is globally enabled by default. smi_mld_snoop_api_set_snooping

Parameters:

← azg Pointer to the SMI client global structure

Returns:

Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NONE

2.2.2.18 s_int32_t smi_mld_snoop_api_unset_snooping (struct smiclient_globals * azg)

This function disables MLD Snooping on all interfaces of this instance not explicitly (individually) enabled for MLD Snooping. smi_mld_snoop_api_unset_snooping

Parameters:

← azg Pointer to the SMI client global structure

Returns:

Return Success (i.e Zero), otherwise one of the following errors MLD_ERR_NONE

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