

83- LLDPMed Configuration Commands

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83.1 LLDPMed Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "LLDPMed Configuration Commands".

Command Tree

```
----configure
  ----lldp-med
    ----[no] port
      - (port-index)
      - [no] adminstatus
      - [no] tx-msgtxinterval
      - [no] tx-msgtxhold
      - [no] tx-reinitdelay
      - [no] tx-txcreditmax
      - [no] tx-msgfasttx
      - [no] tx-txfastinit
    ----[no] media-policy
      - (port-index)
      - app-type
      - vlan-id
      - priority
      - dscp
      - unknown
      - tagged
```

83.2 LLDPMed Configuration Command

Command Description

This command allows the operator to specify LLDPMed parameters.

LLDP is specified as IEEE 802.1ab, while MED is specified by TIA-1057.

Currently only port config table and local media policy table are supported.

User Level

The command can be accessed by operators with lldpmed privileges, and executed by operators with lldpmed privileges.

Command Syntax

The command has the following syntax:

```
> configure lldp-med
```

83.3 LLDP port configuration

Command Description

LLDP port configuration implemented by private MIB definition which is based on:

<http://www.ieee802.org/1/files/public/MIBs/LLDP-V2-MIB-201502160000Z.txt>

User Level

The command can be accessed by operators with *lldpmed* privileges, and executed by operators with *lldpmed* privileges.

Command Syntax

The command has the following syntax:

```
> configure lldp-med ( no port (port-index) ) | ( port (port-index) [ no adminstatus | adminstatus
<LLDP::AdminStatus> ] [ no tx-msgtxinterval | tx-msgtxinterval <LLDP::MsgTxInterval> ] [ no tx-msgtxhold |
tx-msgtxhold <LLDP::MsgTxHold> ] [ no tx-reinitdelay | tx-reinitdelay <LLDP::ReinitDelay> ] [ no
tx-txcreditmax | tx-txcreditmax <LLDP::CreditMax> ] [ no tx-msgfasttx | tx-msgfasttx <LLDP::MsgFastTx> ] [ no
tx-txfastinit | tx-txfastinit <LLDP::MsgTxFastInit> ] )
```

Command Parameters

Table 83.3-1 "LLDP port configuration" Resource Parameters

Resource Identifier	Type	Description
(port-index)	Format: (uni : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> uni:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> uni:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni) Possible values: - uni : uni - uni:ng2 : ngpon2 UNI style identification Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::OntId> - the ONT identifier Field type <Eqpt::ChannelGroupId>	uni port

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - the channel group identifier Field type <Eqpt::SubChannelGroupId> - the subchannel group identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT identifier Possible values: <ul style="list-style-type: none"> - vuni : virtual NGPON2 uni identifier - the ONT SLOT identifier Field type <Eqpt::OntSlotId> - the ONT PORT identifier Field type <Eqpt::OntPortId> - the NGPON2 ONT SLOT identifier Field type <Eqpt::Ng2OntSlotId> - the NGPON2 ONT PORT identifier Field type <Eqpt::Ng2OntPortId> 	

Table 83.3-2 "LLDP port configuration" Command Parameters

Parameter	Type	Description
[no] adminstatus	Parameter type: <LLDP::AdminStatus> Format: (tx-only rx-only tx-and-rx disabled) Possible values: - tx-only : txOnly - rx-only : rxOnly - tx-and-rx : txAndRx - disabled : disabled	<i>optional parameter with default value: "tx-and-rx"</i> The administratively desired status of the local LLDP agent.
[no] tx-msgtxinterval	Parameter type: <LLDP::MsgTxInterval> Format: - The interval at which LLDP frames are transmitted on behalf of this LLDP agent. - range: [5...32768]	<i>optional parameter with default value: 30</i> The interval at which LLDP frames are transmitted on behalf of this LLDP agent.
[no] tx-msgtxhold	Parameter type: <LLDP::MsgTxHold> Format: - The time-to-live value expressed as a multiple of the lldpV2MessageTxInterval object. - range: [2...10]	<i>optional parameter with default value: 4</i> msg tx hold multiplier
[no] tx-reinitdelay	Parameter type: <LLDP::ReinitDelay> Format: - the delay (in units of seconds) from when admin status becomes 'disabled' until re-initialization is attempted. - range: [1...10]	<i>optional parameter with default value: 2</i> delay (in units of seconds) from port disabled until re-initiated.
[no] tx-txcreditmax	Parameter type: <LLDP::CreditMax> Format: - The maximum number of consecutive LLDPDUs that can be transmitted at any time. - range: [1...100]	<i>optional parameter with default value: 5</i> The maximum number of consecutive LLDPDUs that can be transmitted at any time.
[no] tx-msgfasttx	Parameter type: <LLDP::MsgFastTx> Format: - The interval at which LLDP frames are transmitted on behalf of this LLDP agent during fast transmission period - range: [1...3600]	<i>optional parameter with default value: 1</i> tx interval during fast transmission period
[no] tx-txfastinit	Parameter type: <LLDP::MsgTxFastInit> Format: - determines the number of transmissions that are made in	<i>optional parameter with default value: 4</i> the number of transmissions that

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Parameter	Type	Description
	fast transmission mode. - range: [1...8]	are made in fast transmission mode.

83.4 LLDP MED Local Media Policy configuration

Command Description

The MIB table *lldpXMedLocMediaPolicyTable* is readonly. To support modification of it, a private copy with read/write access has been introduced.

User Level

The command can be accessed by operators with *lldpmed* privileges, and executed by operators with *lldpmed* privileges.

Command Syntax

The command has the following syntax:

```
> configure lldp-med ( no media-policy (port-index) app-type <LLDP::AppType> ) | ( media-policy (port-index)
app-type <LLDP::AppType> vlan-id <Eqpt::VlanId> priority <Eqpt::Priority> dscp <Qos::DscpCodepoint>
unknown <LLDP::Boolean> tagged <LLDP::Boolean> )
```

Command Parameters

Table 83.4-1 "LLDP MED Local Media Policy configuration" Resource Parameters

Resource Identifier	Type	Description
(port-index)	Format: (uni : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> uni.ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> uni.ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni) Possible values: - uni : uni - uni.ng2 : ngpon2 UNI style identification Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::OntId> - the ONT identifier Field type <Eqpt::ChannelGroupId> - the channel group identifier Field type <Eqpt::SubChannelGroupId>	uni port

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - the subchannel group identifier Field type <Eqpt::Ng2OntId> <ul style="list-style-type: none"> - the NG2 ONT identifier Possible values: <ul style="list-style-type: none"> - vuni : virtual NGPON2 uni identifier Field type <Eqpt::OntSlotId> <ul style="list-style-type: none"> - the ONT SLOT identifier Field type <Eqpt::OntPortId> <ul style="list-style-type: none"> - the ONT PORT identifier Field type <Eqpt::Ng2OntSlotId> <ul style="list-style-type: none"> - the NGPON2 ONT SLOT identifier Field type <Eqpt::Ng2OntPortId> <ul style="list-style-type: none"> - the NGPON2 ONT PORT identifier 	
app-type	Parameter type: <LLDP::AppType> Format: (unknown voice voice-signaling guest-voice guest-voice-signaling softphone-voice video-conferencing streaming-video video-signaling) Possible values: <ul style="list-style-type: none"> - unknown : - voice : - voice-signaling : - guest-voice : - guest-voice-signaling : - softphone-voice : - video-conferencing : - streaming-video : - video-signaling : 	app type

Table 83.4-2 "LLDP MED Local Media Policy configuration" Command Parameters

Parameter	Type	Description
vlan-id	Parameter type: <Eqpt::VlanId> Format: <ul style="list-style-type: none"> - vlan index - range: [0...4095] 	<i>mandatory parameter</i> vlan id
priority	Parameter type: <Eqpt::Priority> Format: <ul style="list-style-type: none"> - priority range 0 to 7 - range: [0...7] 	<i>mandatory parameter</i> priority
dscp	Parameter type: <Qos::DscpCodepoint> Format: <ul style="list-style-type: none"> - the number of the DSCP codepoint - range: [0...63] 	<i>mandatory parameter</i> dscp
unknown	Parameter type: <LLDP::Boolean> Format: (true false) Possible values: <ul style="list-style-type: none"> - true : true - false : false 	<i>mandatory parameter</i> unknown
tagged	Parameter type: <LLDP::Boolean>	<i>mandatory parameter</i>

Parameter	Type	Description
	Format: (true false) Possible values: - true : true - false : false	tagged