47- CFM Configuration Commands

47.1 CFM Configuration Command Tree

Description

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

Command Tree

----configure
----cfm
----[no] domain
- (domain-index)
- name
- level
----[no] association
- (association-index)
- [no] bridgeport
- [no] vlan
- [no] mhf-creation
- name
- [no] ccm-interval
- [no] ccm-aware
- [no] ccm-admin-state
- [no] mhf-location
- ltm-filtering
- [no] dual-tag-aware
----[no] mep
- (mepid)
- location
- [no] cci-enable
- [no] ccm-priority
- [no] equipment
- [no] low-pri-defect
- [no] fng-alarm-time
- [no] fng-reset-time
- [no] slm-resp-enable
- [no] dm-resp-enable
- [no] lm-resp
- [no] slm-init-enable
- [no] lm-init
----y1731ais
- [no] ais-enable
- [no] meg-level
- [no] period
- [no] priority
- [no] portshut-enable
----[no] active-remote-mep
- (active-remote-mepid)
----[no] remote-mep
- (rmepid)
----slm
- [no] inactivity-time
----y1731pm

----[no] domain
- **(domain-index)**
- **association**
- **mep**
- **session-id**
- type
- target-mac
- [no] priority
- [no] admin-up
- interval
- size
- measurement-intvl

47.2 Maintenance Domain Configuration Command

Command Description

This command is used to define a Maintenance Domain (MD) at particular maintenance level. There are 8 possible levels. Note that once created, the MD cannot be modified. To modify, delete the entry and create a new one.

Note that, if an MD is deleted, any subtending Maintenance Associations (MAs), and their subtending Maintenance Points (MPs), will be automatically deleted only if CCM Admin State is locked for all of the MAs.

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm (no domain (domain-index)) | (domain (domain-index) name <Cfm::FormatedName> level <Cfm::MdLevelType>)

Command Parameters

Table 47.2-1 "Maintenance Domain Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(domain-index)	Format: - Maintenance Domain (MD) index - range: [1...4294967295]	Maintenance Domain (MD) index

Table 47.2-2 "Maintenance Domain Configuration Command" Command Parameters

Parameter	Type	Description
name	Parameter type: <Cfm::FormatedName> Format: (dns : <Cfm::PrintableString> | mac : <Cfm::MacAddress> | string : <Cfm::PrintableString> | none) Possible values: - dns : DNS name (e.g. nokia.com) - mac : MAC address plus 2 hex octets, e.g. 11:22:33:44:55:66:77:88 - string : A character string (e.g. operator) - none : No MD name. Field type <Cfm::PrintableString> - all characters except for characters 0 to 31 - length: 1<=x<=43 Field type <Cfm::MacAddress> - MAC address plus 2 hex octets, e.g.	*mandatory parameter* *The parameter is not visible during modification.* Maintenance Domain (MD) name type and unique name

Parameter	Type	Description
	11:22:33:44:55:66:77:88 - length: 8	
level	Parameter type: <Cfm::MdLevelType> Format: - Maintenance Domain (MD) level - range: [0...7]	*mandatory parameter* *The parameter is not visible during modification.* Maintenance Domain (MD) level

47.3 Maintenance Association Configuration Command

Command Description

This command is used to create or modify a Maintenance Association (MA). The VlanId has been made optional in the Command Syntax as VlanId is mandatory for creation and is not applicable for modification. Each Maintenance Domain (MD) can have one or more MAs.

Note that, if an MA is deleted, any subtending Maintenance Points (MPs) will automatically be deleted.

Maintenance Association (MA) name and type is unique within the domain. When MA name is not configured explicitly during MA creation, default ma name is computed as follows. Ex: default name for ma 1 is ma1 of string type

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm domain (domain-index) (no association (association-index)) | (association (association-index) [no bridgeport | bridgeport <Cfm::InterfaceZeroIndex>] [no vlan | vlan <Network::StackedVlan>] [no mhf-creation | mhf-creation <Cfm::CfmMhfCreationType>] [name <Cfm::MaFormatedName>] [no ccm-interval | ccm-interval <Cfm::CfmMaCcmInterval>] [[no] ccm-aware] [no ccm-admin-state | ccm-admin-state <Cfm::CfmMaCcmAdminState>] [no mhf-location | mhf-location <Cfm::CfmMaMhfLocationType>] [ltm-filtering <Cfm::CfmMaLtmFilter>] [[no] dual-tag-aware])

Command Parameters

Table 47.3-1 "Maintenance Association Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(domain-index)	Format: - Maintenance Domain (MD) index - range: [1...4294967295]	Maintenance Domain (MD) index
(association-index)	Format: - Maintenance Association (MA) index. Unique within an MD - range: [1...4294967295]	Maintenance Association (MA) index. Unique within an MD

Table 47.3-2 "Maintenance Association Configuration Command" Command Parameters

Parameter	Type	Description
[no] bridgeport	Parameter type: <Cfm::InterfaceZeroIndex> Format: (none	*optional parameter with default value: "none"* *The parameter is not visible*

Parameter	Type	Description
	| <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> | ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> | ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni) Possible values: - none : no port - ng2 : ngpon2 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::PortId> - the port 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> - the subchannel group identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT identifier Possible values: - voip : virtual uni identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Eqpt::OntSlotId> - the ONT SLOT identifier Field type <Eqpt::OntPortId> - the ONT PORT identifier Field type <Eqpt::Ng2OntSlotId> - the NGPON2 ONT SLOT identifier Field type <Eqpt::Ng2OntPortId> - the NGPON2 ONT PORT identifier	*during modification.* IfIndex of UNI
[no] vlan	Parameter type: <Network::StackedVlan> Format: (<Network::UVlanIndex> | stacked : <Network::SVlanIndex> : <Network::CVlanIndex>) Possible values: - stacked : stacked vlan identity Field type <Network::UVlanIndex> - unstacked vlan identity - range: [1...4093] Field type <Network::SVlanIndex> - service vlan identity - range: [2...4093] Field type <Network::CVlanIndex>	*optional parameter with default value: "stacked : 0 : 4097"* *The parameter is not visible during modification.* when vlan is not specified it will be vlan Unaware MA

Parameter	Type	Description
	- customer vlan identity - range: [0...4093]	
[no] mhf-creation	Parameter type: <Cfm::CfmMhfCreationType> Format: (mhf-none | mhf-default) Possible values: - mhf-none : No MHF creation for this VLAN ID - mhf-default : MHF creation for this VLAN ID on related bridge ports	*optional parameter with default value: "mhf-none"* MIP Half Function (MHF) creation control
name	Parameter type: <Cfm::MaFormatedName> Format: (pvid : <Cfm::MaNamePvid> | string : <Cfm::MaNameCharstr> | uint16 : <Cfm::MaNameUint16> | vpnid : <Cfm::MaVpnid> | icc : <Cfm::MaNameIcc>) Possible values: - pvid : [0...4094] - string : Raw ascii up to 45 Characters, except the character code 0-31(decimal) are not used - uint16 : [0..65535] - vpnid : RFC-2685 VPN ID Format(7 Octet): xxx:xxxx,eg:000102:FFAA77BB,x is between 00 and FF - icc : Raw ascii.exactly 13 characters,except the character code 0-31(decimal) are not used Field type <Cfm::MaNamePvid> - MaName Pvid Range [0...4094] - length: x<=4 Field type <Cfm::MaNameCharstr> - Raw ascii up to 45 Characters, except the character code 0-31 decimal - length: x<=45 Field type <Cfm::MaNameUint16> - MaName Uint16 Range [0...65535] - length: x<=5 Field type <Cfm::MaVpnid> - MaName VpnId 7 Octet Format : xxx:xxxx, where x is a between 00 and FF eg:11FF33:AABBCCDD - length: 15 Field type <Cfm::MaNameIcc> - MaName Icc Raw ascii exactly 13 characters - length: 13	*optional parameter* Maintenance Association (MA) name and type is unique within the domain.
[no] ccm-interval	Parameter type: <Cfm::CfmMaCcmInterval> Format: (0 | 3.33ms | 10ms | 100ms | 1 | 10 | 60 | 600) Possible values: - 0 : CCM Rx disable - 3.33ms : CCM Interval 3.33 mSecs - 10ms : CCM Interval 10 mSecs	*optional parameter with default value: "10"* CCM Tx Interval for the MA

Parameter	Type	Description
	- 100ms : CCM Interval 100 mSecs - 1 : CCM Interval 1 secs - 10 : CCM Interval 10 secs - 60 : CCM Interval 1 Min - 600 : CCM Interval 10 Min	
[no] ccm-aware	Parameter type: boolean	*optional parameter* turn on the CCM frame processing on reception
[no] ccm-admin-state	Parameter type: <Cfm::CfmMaCcmAdminState> Format: (unlock | lock) Possible values: - unlock : sets CCM AdminState to activate(unlock) ccm function - lock : sets CCM AdminState to de-activate(lock) ccm function	*optional parameter with default value: "lock"* activate(unlock)/de-activate(lock) CCM function on the MA
[no] mhf-location	Parameter type: <Cfm::CfmMaMhfLocationType> Format: (default | ltuplink | vbp | onu | ltuplink-vbp | ltuplink-onu | vbp-onu | ltuplink-vbp-onu) Possible values: - default : default value: for GPON board, MIP is set on onu; for DSL board, MIP is set on vbp. - ltuplink : MIP is set on lt uplink - vbp : MIP is set on olt virtual bridgeport - onu : MIP is set on onu - ltuplink-vbp : MIPs are set on lt up link and virtual bridgeport - ltuplink-onu : MIPs are set on lt uplink and onu - vbp-onu : MIPs are set on virtual bridgeport and onu - ltuplink-vbp-onu : MIPs are set on olt uplink, virtual bridgeport and onu	*optional parameter with default value: "default"* *The parameter is not visible during modification.* MA Mhf Location : distinguish MIP location
ltm-filtering	Parameter type: <Cfm::CfmMaLtmFilter> Format: (enable | disable) Possible values: - enable : enable ltm-filtering - disable : disable ltm-filtering	*optional parameter* Upstream LTM filtering enable/disable. default = enable
[no] dual-tag-aware	Parameter type: boolean	*optional parameter* Process CFM Messages upto 2 vlan tags in C-Vlan CC mode, refer OAM documentation for hardware support information.

47.4 Maintenance Association End Point Configuration Command

Command Description

This command is used to configure a Maintenance association End Point (MEP) within a Maintenance Association (MA). Each MA can have zero or more MEPs. Once a MEP is created, it cannot be modified. To modify the MEP, delete the entry and create a new one.

Note that there are correlations between a MEP and a VLAN port location. To create a MEP, the MEP's MA must be associated with the VLAN-port location's VLAN. Also if the VLAN-port is deleted, the related MEP(s) will automatically be deleted.

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm domain (domain-index) association (association-index) (no mep (mepid)) | (mep (mepid) location <Cfm::location> [[no] cci-enable] [no ccm-priority | ccm-priority <Cfm::MepCcmPriority>] [no equipment | equipment <Cfm::MepEquipmentType>] [no low-pri-defect | low-pri-defect <Cfm::MepLowPriorityDefect>] [no fng-alarm-time | fng-alarm-time <Cfm::MepFngAlarmTime>] [no fng-reset-time | fng-reset-time <Cfm::MepFngResetTime>] [[no] slm-resp-enable] [[no] dm-resp-enable] [no lm-resp | lm-resp <Cfm::MepLmEnableDisable>] [[no] slm-init-enable] [no lm-init | lm-init <Cfm::MepLmInitEnableDisable>])

Command Parameters

Table 47.4-1 "Maintenance Association End Point Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(domain-index)	Format: - Maintenance Domain (MD) index - range: [1...4294967295]	Maintenance Domain (MD) index
(association-index)	Format: - Maintenance Association (MA) index. Unique within an MD - range: [1...4294967295]	Maintenance Association (MA) index. Unique within an MD
(mepid)	Format: - MA End Point (MEP) ID. Unique within an MA - range: [1...8191]	MA End Point (MEP) ID. Unique within an MA

Table 47.4-2 "Maintenance Association End Point Configuration Command" Command Parameters

Parameter	Type	Description
location	Parameter type: <Cfm::location> Format: (user : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> | user : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> | slot : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> | user : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> | user : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip | user : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / vuni) Possible values: - user : User bridge-port location - slot : slot location - ng2 : ngpon2 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::PortId> - the port number Field type <Eqpt::VpiId> - atm VPI Field type <Eqpt::VciId> - atm VCI Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Ng2::OntId> - the ONT identifier Possible values: - voip : virtual uni identifier obsolete alternative replaced by vuni - vuni : virtual uni identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Eqpt::OntSlotId> - the ONT SLOT identifier Field type <Eqpt::OntPortId> - the ONT PORT identifier Field type <Eqpt::Ng2OntSlotId> - the NGPON2 ONT SLOT identifier	*mandatory parameter* *The parameter is not visible during modification.* Maintenance association End Point (MEP) location

Parameter	Type	Description
	Field type <Eqpt::Ng2OntPortId> - the NGPON2 ONT PORT identifier	
[no] cci-enable	Parameter type: boolean	*optional parameter* Enable CCM generation on the current MEP
[no] ccm-priority	Parameter type: <Cfm::MepCcmPriority> Format: - Priority value for CCMs transmitted by the MEP - range: [0...7]	*optional parameter with default value: 7UL* Priority value for CCMs transmitted by the MEP
[no] equipment	Parameter type: <Cfm::MepEquipmentType> Format: (default | olt | onu) Possible values: - default : Gpon Onu or Dsl - olt : Gpon LT - onu : Gpon Onu	*optional parameter with default value: "default"* *The parameter is not visible during modification.* Identifies the equipment type of mep ,only supported on Gpon Lt
[no] low-pri-defect	Parameter type: <Cfm::MepLowPriorityDefect> Format: (all-def | mac-rem-err-xcon | rem-err-xcon | err-xcon | xcon | no-xcon) Possible values: - all-def : For DefRDICCM, DefMACstatus, DefRemoteCCM,DefErrorCCM, and DefXconCCM - mac-rem-err-xcon : Only DefMACstatus, DefRemoteCCM,DefErrorCCM, and DefXconCCM (default) - rem-err-xcon : Only DefRemoteCCM, DefErrorCCM, and DefXconCCM - err-xcon : Only DefErrorCCM and DefXconCCM - xcon : Only DefXconCCM - no-xcon : No defects DefXcon or lower are to be reported	*optional parameter with default value: "mac-rem-err-xcon"* The lowest priority defect that is allowed to generate fault alarm
[no] fng-alarm-time	Parameter type: <Cfm::MepFngAlarmTime> Format: - multiples of 250 ticks are supported(250,500,750,1000).default = 250 ticks(2.5sec) - unit: 1/100 sec - range: [250...1000]	*optional parameter with default value: 250L* The time in ticks(1 tick = 10ms) that defects must be present before a Fault alarm is issued.
[no] fng-reset-time	Parameter type: <Cfm::MepFngResetTime> Format: - multiples of 250 ticks are supported(250,500,750,1000). default = 1000 ticks(10sec) - unit: 1/100 sec - range: [250...1000]	*optional parameter with default value: 1000L* The time in ticks (1tick = 10ms) that defects must be absent before re-enabling a Fault Alarm.
[no] slm-resp-enable	Parameter type: boolean	*optional parameter* slm responder is enabled on the current mep
[no] dm-resp-enable	Parameter type: boolean	*optional parameter* dm responder is enabled on the current mep
[no] lm-resp	Parameter type: <Cfm::MepLmEnableDisable> Format:	*optional parameter with default value: "disable"*

Parameter	Type	Description
	(disable | enable-per-vlan | enable-per-pbit) Possible values: - disable : lm responder is disabled on the current mep - enable-per-vlan : lm responder is enabled per vlan on the current mep - enable-per-pbit : lm responder is enabled per vlan per pbit on the current mep	configure LM responder on the current mep
[no] slm-init-enable	Parameter type: boolean	*optional parameter* slm initiator is enabled on the current mep
[no] lm-init	Parameter type: <Cfm::MepLmInitEnableDisable> Format: (disable | enable-per-vlan | enable-per-pbit) Possible values: - disable : lm initiator is disabled on the current mep - enable-per-vlan : lm initiator is enabled per vlan on the current mep - enable-per-pbit : lm initiator is enabled per vlan per pbit on the current mep	*optional parameter with default value: "disable"* configure lm initiator on the current mep

47.5 MEP located on ONU UNI enabled ITU-T Y.1731 Ethernet Alarm Indication Signal(ETH-AIS) function Configuration Commands

Command Description

This command allows the operator to enable or disable the ETH-AIS(ITU-T Y.1731) function for the MEP located on ONT UNI.

User Level

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

Command Syntax

The command has the following syntax:

> configure cfm domain (domain-index) association (association-index) mep (mepid) y1731ais [[no] ais-enable] [no meg-level | meg-level <Cfm::MepAisMegLevel>] [no period | period <Cfm::MepAisPeriod>] [no priority | priority <Cfm::MepAisPriority>] [[no] portshut-enable]

Command Parameters

Table 47.5-1 "MEP located on ONU UNI enabled ITU-T Y.1731 Ethernet Alarm Indication Signal(ETH-AIS) function Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(domain-index)	Format: - Maintenance Domain (MD) index - range: [1...4294967295]	Maintenance Domain (MD) index
(association-index)	Format: - Maintenance Association (MA) index. Unique within an MD - range: [1...4294967295]	Maintenance Association (MA) index. Unique within an MD
(mepid)	Format: - MA End Point (MEP) ID. Unique within an MA - range: [1...8191]	MA End Point (MEP) ID. Unique within an MA

Table 47.5-2 "MEP located on ONU UNI enabled ITU-T Y.1731 Ethernet Alarm Indication Signal(ETH-AIS) function Configuration Commands" Command Parameters

Parameter	Type	Description
[no] ais-enable	Parameter type: boolean	*optional parameter* AIS generation is enabled on the current MEP
[no] meg-level	Parameter type: <Cfm::MepAisMegLevel>	*optional parameter with default*

Parameter	Type	Description
	Format: - Meg Level for AIS frames transmitted by the MEP - range: [0...7]	*value: 0L* MEG level at which the most immediate client layer MIPs and MEPs exist
[no] period	Parameter type: <Cfm::MepAisPeriod> Format: - Period of the AIS frames transmitted by the MEP, 0 (per second), 1 (per minute) - range: [0...1]	*optional parameter with default value: 0L* Determines transmission periodicity of frames with AIS information
[no] priority	Parameter type: <Cfm::MepAisPriority> Format: - Priority value for AIS frames transmitted by the MEP - range: [0...7]	*optional parameter with default value: 7L* Identifies the priority of frames with ETH-AIS information
[no] portshut-enable	Parameter type: boolean	*optional parameter* shutdown enabled on the current MEP

47.6 Active Remote Maintenance Association End Point Configuration Command

Command Description

This command is used to configure a Active Remote Maintenance association End Point (RMEP) within a Maintenance End Point (MEP). Once an active RMEP is created, it cannot be modified. To modify the Active RMEP, delete the entry and create a new one.

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm domain (domain-index) association (association-index) mep (mepid) (no active-remote-mep (active-remote-mepid)) | (active-remote-mep (active-remote-mepid))

Command Parameters

Table 47.6-1 "Active Remote Maintenance Association End Point Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(domain-index)	Format: - Maintenance Domain (MD) index - range: [1...4294967295]	Maintenance Domain (MD) index
(association-index)	Format: - Maintenance Association (MA) index. Unique within an MD - range: [1...4294967295]	Maintenance Association (MA) index. Unique within an MD
(mepid)	Format: - MA End Point (MEP) ID. Unique within an MA - range: [1...8191]	MA End Point (MEP) ID. Unique within an MA
(active-remote-mepid)	Format: - MA End Point (MEP) ID. Unique within an MA - range: [1...8191]	Active Remote MepID.

47.7 Remote Maintenance Association End Point Configuration Command

Command Description

This command is used to configure a Remote Maintenance association End Point (RMEP) within a Maintenance Association (MA). Remote MEP is useful only in case CCM is activated on an MA. Once a RMEP is created, it cannot be modified. To modify the RMEP, delete the entry and create a new one.

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm domain (domain-index) association (association-index) (no remote-mep (rmepid)) | (remote-mep (rmepid))

Command Parameters

Table 47.7-1 "Remote Maintenance Association End Point Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(domain-index)	Format: - Maintenance Domain (MD) index - range: [1...4294967295]	Maintenance Domain (MD) index
(association-index)	Format: - Maintenance Association (MA) index. Unique within an MD - range: [1...4294967295]	Maintenance Association (MA) index. Unique within an MD
(rmepid)	Format: - MA End Point (MEP) ID. Unique within an MA - range: [1...8191]	Remote MA End Point (MEP) ID. Unique within an MA

47.8 Synthetic Loss Measurement configuration Commands

Command Description

This command can be used to configure the parameters for synthetic loss measurement

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm slm [no inactivity-time | inactivity-time <Cfm::slmInactivityTime>]

Command Parameters

Table 47.8-2 "Synthetic Loss Measurement configuration Commands" Command Parameters

Parameter	Type	Description
[no] inactivity-time	Parameter type: <Cfm::slmInactivityTime> Format: - inactivity time - unit: seconds - range: [10...100]	*optional parameter with default value: 100L* value of slm inactivity timer

47.9 CFM PM-Proactive test management Command

Command Description

This command is used to configure PM-Proactive tests.

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm y1731pm

47.10 CFM PM Proactive test management Command

Command Description

This command is used to configure PM Proactive tests.

User Level

The command can be accessed by operators with alarm , oam , vlan privileges, and executed by operators with alarm , oam , vlan privileges.

Command Syntax

The command has the following syntax:

> configure cfm y1731pm (no domain (domain-index) association <Cfm::CfmMaIndexType> mep <Cfm::MepIdType> session-id <Cfm::SessionIdType>) | (domain (domain-index) association <Cfm::CfmMaIndexType> mep <Cfm::MepIdType> session-id <Cfm::SessionIdType> type <Cfm::PmTestType> target-mac <Vlan::MacAddr> [no priority | priority <Vlan::Priority>] [[no] admin-up] [interval <Cfm::PmIntervalType>] [size <Cfm::PmDataSizeType>] [measurement-intvl <Cfm::PmMeasurementIntervalType>])

Command Parameters

Table 47.10-1 "CFM PM Proactive test management Command" Resource Parameters

Resource Identifier	Type	Description
(domain-index)	Format: - Maintenance Domain (MD) index - range: [1...4294967295]	Maintenance Domain Index.
association	Parameter type: <Cfm::CfmMaIndexType> Format: - Maintenance Association (MA) index. Unique within an MD - range: [1...4294967295]	Maintenance Association Index.
mep	Parameter type: <Cfm::MepIdType> Format: - MA End Point (MEP) ID. Unique within an MA - range: [1...8191]	Maintenance Association End Point (MEP) ID. Unique within an MA.
session-id	Parameter type: <Cfm::SessionIdType> Format: - Session Id for PM proactive - range: [1...3600]	PM Proactive test SessionId.

Table 47.10-2 "CFM PM Proactive test management Command" Command Parameters

Parameter	Type	Description
type	Parameter type: <Cfm::PmTestType>	*mandatory parameter*

Parameter	Type	Description
	Format: (single-ended-slm | single-ended-lm) Possible values: - single-ended-slm : sets test type to SLM - single-ended-lm : sets test type to LM	*The parameter is not visible during modification.* Y1731 PM Test type
target-mac	Parameter type: <Vlan::MacAddr> Format: - mac address (aa:bb:cc:a1:02:03) - unit: Byte - length: 6	*mandatory parameter* *The parameter is not visible during modification.* MAC address of the PM responder(Target).
[no] priority	Parameter type: <Vlan::Priority> Format: - priority of ethernet frames - range: [0...7]	*optional parameter with default value: 7L* Priority. A 3 bit value to be used in the VLAN tag.
[no] admin-up	Parameter type: boolean	*optional parameter* Start the PM test
interval	Parameter type: <Cfm::PmIntervalType> Format: - PM interval (sec) SLM: [1...10] LM: [60 or 300] - range: [1...10,60,300]	*optional parameter* Interval in which PM packets are transmitted.1sec - 10sec for SLM, 60sec or 300sec for LM
size	Parameter type: <Cfm::PmDataSizeType> Format: (not-applicable | <Cfm::PmDataSize>) Possible values: - not-applicable : For single-ended-lm, the value of this object is not-applicable Field type <Cfm::PmDataSize> - Datasize for the SLM proactive test - range: [0...1500]	*optional parameter* Size of data TLV
measurement-intvl	Parameter type: <Cfm::PmMeasurementIntervalType> Format: (not-applicable | <Cfm::PmMeasurementInterval>) Possible values: - not-applicable : For single-ended-lm, the value of this object is not-applicable Field type <Cfm::PmMeasurementInterval> - Measurement interval - unit: seconds - range: [60,300]	*optional parameter* The time for which the synthetic loss calculation is made periodically.