66- MoCA Configuration Commands

66.1 MoCA Configuration Command Tree

Description

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

Command Tree

----configure
----moca
----ont
- (uni-idx)
- [no] cust-info
- [no] tx-pwr
- [no] net-coord
- [no] snr-margin
- [no] password
- [no] privacy
- [no] bw-alarm-thresh
- [no] auto-pwr-ctl
- [no] pwr-override
- [no] admin-state

----phy
- [no] pm
- [no] tca
- [no] rx-err

----l2
- [no] pm
- [no] tca
- [no] dropped-frames-up
- [no] dropped-frames-dn

66.2 MoCA ONT Uni Configuration Command

Command Description

This command configures a MoCA ONT uni.

User Level

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

Command Syntax

The command has the following syntax:

> configure moca ont (uni-idx) [no cust-info | cust-info <Gpon::CustInfo>] [no tx-pwr | tx-pwr <Moca::TxPwr>] [no net-coord | net-coord <Moca::NetworkCoordinator>] [no snr-margin | snr-margin <Moca::SignalToNoiseRatioMargin>] [no password | password <Moca::Password>] [no privacy | privacy <Moca::Privacy>] [no bw-alarm-thresh | bw-alarm-thresh <Moca::minBwAlarmThreshold>] [no auto-pwr-ctl | auto-pwr-ctl <Moca::AutomaticPowerControl>] [no pwr-override | pwr-override <Gpon::PowerShedOverride>] [no admin-state | admin-state <Gpon::ItfAdminStatus>]

Command Parameters

Table 66.2-1 "MoCA ONT Uni Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) Possible values: - 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::PonId> - the PON identifier Field type <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId>	identification of the uni interface index

Resource Identifier	Type	Description
	- the ONT identifier Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 66.2-2 "MoCA ONT Uni Configuration Command" Command Parameters

Parameter	Type	Description
[no] cust-info	Parameter type: <Gpon::CustInfo> Format: - a printable string - length: x<=80	*optional parameter with default value: ""* port label
[no] tx-pwr	Parameter type: <Moca::TxPwr> Format: - transmitter power level in dBm - range: [-31...0]	*optional parameter with default value: -14L* target transmitter power level (dBm)
[no] net-coord	Parameter type: <Moca::NetworkCoordinator> Format: (auto | always | never) Possible values: - auto : negotiate for network coordinator - always : always be the network coordinator - never : never be the network coordinator	*optional parameter with default value: "auto"* moca network coordinating role
[no] snr-margin	Parameter type: <Moca::SignalToNoiseRatioMargin> Format: - threshold above measured rx noise floor in dDm - range: [-3...3]	*optional parameter with default value: 2L* margin above Rx noise floor for variations in return loss (dBm)
[no] password	Parameter type: <Moca::Password> Format: - hidden moca encryption key - length: x<=17	*optional parameter with default value: ""* hidden moca encryption key (0-17 numeric characters)
[no] privacy	Parameter type: <Moca::Privacy> Format: (enable | disable) Possible values: - enable : link-layer security activated - disable : link-layer security deactivated	*optional parameter with default value: "disable"* link layer security
[no] bw-alarm-thresh	Parameter type: <Moca::minBwAlarmThreshold> Format: (disable | <Moca::minBwAlarmThreshold>) Possible values: - disable : disable bw threshold alarm Field type <Moca::minBwAlarmThreshold> - minimum phy link bandwidth (Mbps) between two nodes - range: [0,57...3200]	*optional parameter with default value: 180L* minimum phy link bandwidth between two nodes (Mbps)
[no] auto-pwr-ctl	Parameter type: <Moca::AutomaticPowerControl> Format: (enable | disable) Possible values: - enable : apc enabled	*optional parameter with default value: "enable"* automatic power control

Parameter	Type	Description
	- disable : apc disabled	
[no] pwr-override	Parameter type: <Gpon::PowerShedOverride> Format: (enable | disable) Possible values: - enable : port is excluded from data class power shedding - disable : port is included in data class power shedding	*optional parameter with default value: "disable"* power shed override
[no] admin-state	Parameter type: <Gpon::ItfAdminStatus> Format: (up | down) Possible values: - up : set the admin-state to up - down : set the admin-state to down	*optional parameter with default value: "down"* *The parameter is not visible during creation.* administrative status of the interface

Command Output

Table 66.2-3 "MoCA ONT Uni Configuration Command" Display parameters

Specific Information		
name	**Type**	**Description**
oper-state	Parameter type: <Itf::ifOperStatus> (up | down | testing | unknown | dormant | no-value) Possible values: - up : up,traffic can pass - down : down,no traffic is passing - testing : testing,no traffic is passing - unknown : unknown - dormant : dormant,no traffic is passing - no-value : no entry in the table	operational state of the interface *This element is always shown.*

66.3 MoCA ONT Uni Physical Layer Configuration Command

Command Description

This command allows the operator to provision performance monitoring and threshold crossing alerts for a MoCA ONT physical layer UNI.

User Level

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

Command Syntax

The command has the following syntax:

> configure moca ont (uni-idx) phy [no pm | pm <Gpon::OntPmCollect>] [no tca | tca <Gpon::OntPmCollect>] [no rx-err | rx-err <Gpon::ErrorCountThreshold>]

Command Parameters

Table 66.3-1 "MoCA ONT Uni Physical Layer Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) Possible values: - 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::PonId> - the PON identifier Field type <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId>	identification of the uni interface index

Resource Identifier	Type	Description
	- the ONT identifier Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 66.3-2 "MoCA ONT Uni Physical Layer Configuration Command" Command Parameters

Parameter	Type	Description
[no] pm	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* physical layer pm collection
[no] tca	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* physical layer threshold crossing alerts
[no] rx-err	Parameter type: <Gpon::ErrorCountThreshold> Format: (disable | <Gpon::ErrorCountThreshold>) Possible values: - disable : disable tca Field type <Gpon::ErrorCountThreshold> - error count threshold (0-4294967295) - range: [0...4294967295]	*optional parameter with default value: "disable"* incoming (upstream) errored packet threshold

Command Output

Table 66.3-3 "MoCA ONT Uni Physical Layer Configuration Command" Display parameters

Specific Information		
name	**Type**	**Description**
pm-intervals	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the mocaIfIntervalTable *This element is only shown in detail mode.*

66.4 MoCA ONT Uni Layer 2 Configuration Command

Command Description

This command allows the operator to provision performance monitoring and threshold crossing alerts for a MoCA ONT layer 2 UNI.

User Level

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

Command Syntax

The command has the following syntax:

> configure moca ont (uni-idx) l2 [no pm | pm <Gpon::OntPmCollect>] [no tca | tca <Gpon::OntPmCollect>] [no dropped-frames-up | dropped-frames-up <Gpon::ErrorCountThreshold>] [no dropped-frames-dn | dropped-frames-dn <Gpon::ErrorCountThreshold>]

Command Parameters

Table 66.4-1 "MoCA ONT Uni Layer 2 Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) Possible values: - 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::PonId> - the PON identifier Field type <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier	identification of the uni interface index

Resource Identifier	Type	Description
	Field type <Ng2::OntId> - the ONT identifier Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 66.4-2 "MoCA ONT Uni Layer 2 Configuration Command" Command Parameters

Parameter	Type	Description
[no] pm	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* l2 pm collection
[no] tca	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* l2 threshold crossing alerts
[no] dropped-frames-up	Parameter type: <Gpon::ErrorCountThreshold> Format: (disable | <Gpon::ErrorCountThreshold>) Possible values: - disable : disable tca Field type <Gpon::ErrorCountThreshold> - error count threshold (0-4294967295) - range: [0...4294967295]	*optional parameter with default value: "disable"* incoming (upstream) dropped frames threshold
[no] dropped-frames-dn	Parameter type: <Gpon::ErrorCountThreshold> Format: (disable | <Gpon::ErrorCountThreshold>) Possible values: - disable : disable tca Field type <Gpon::ErrorCountThreshold> - error count threshold (0-4294967295) - range: [0...4294967295]	*optional parameter with default value: "disable"* outgoing (downstream) dropped frames threshold

Command Output

Table 66.4-3 "MoCA ONT Uni Layer 2 Configuration Command" Display parameters

Specific Information		
name	**Type**	**Description**
pm-intervals	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the gponEtherTrafficIntervalTable *This element is only shown in detail mode.*