

## ***97- show tc-layer pm data***

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## 97.1 show tc-layer pm data Tree

### Description

This chapter gives an overview of nodes that are handled by "show tc-layer pm data".

### Command Tree

```
----show
  ----tc-layer
    ----ont-side
      ----current-interval
        - (index)
      ----previous-interval
        - (index)
        - interval-no
```

## 97.2 show TC-layer ONT side Current Interval Performance Data Status Command

### Command Description

*This command displays various statistics collected for Multicast ONT TC-layer during the current 15 minute interval of operation.*

### User Level

*The command can be accessed by operators with equipment privileges.*

### Command Syntax

The command has the following syntax:

```
> show tc-layer ont-side current-interval [ (index) ]
```

### Command Parameters

**Table 97.2-1 "show TC-layer ONT side Current Interval Performance Data Status Command" Resource Parameters**

Resource Identifier	Type	Description
(index)	Format: (      uni:ng2        :      <Eqpt::ChannelGroupId>      / <Eqpt::SubChannelGroupId>      /      <Eqpt::Ng2OntId>      / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId>        voip:ng2        :      <Eqpt::ChannelGroupId>      / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId>   mcast : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId>   uni : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId>   voip : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId>        mcast:ng2        :      <Eqpt::ChannelGroupId>      / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> ) Possible values: - mcast : multicast - mcast:ng2 : ngpon2 multicast style identification - uni : uni - uni:ng2 : ngpon2 UNI style identification - voip : voip - voip:ng2 : voip Field type <Eqpt::RackId> - the rack number	pm index

Resource Identifier	Type	Description
	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::ChannelGroupId> - the channel group identifier Field type <Eqpt::SubChannelGroupId> - the subchannel group identifier Field type <Eqpt::OntId> - the ONT identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT 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	

## Command Output

**Table 97.2-2 "show TC-layer ONT side Current Interval Performance Data Status Command"  
Display parameters**

Specific Information		
name	Type	Description
tx-gem-frames	Parameter type: <Counter> - 32 bit counter	count of transmit gem frames direction <i>This element is always shown.</i>
rx-gem-frames	Parameter type: <Counter> - 32 bit counter	count of received gem frames <i>This element is always shown.</i>
tx-payload-bytes	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of transmit payload bytes <i>This element is always shown.</i>
rx-payload-bytes	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of recieved payload bytes <i>This element is always shown.</i>
encrypkey-errors	Parameter type: <Counter> - 32 bit counter	count of get encrypt key errors <i>This element is always shown.</i>

## 97.3 show TC-layer ONT side Previous Interval Performance Data Status Command

### Command Description

*This command displays various statistics collected for Multicast ONT TC-layer over the previous 8 hours of operations which is broken in to 32 completed 15 minute intervals.*

### User Level

*The command can be accessed by operators with equipment privileges.*

### Command Syntax

The command has the following syntax:

```
> show tc-layer ont-side previous-interval [ (index) [ interval-no <Gpon::IntervalNo> ] ]
```

### Command Parameters

**Table 97.3-1 "show TC-layer ONT side Previous Interval Performance Data Status Command" Resource Parameters**

Resource Identifier	Type	Description
(index)	Format: (      uni:ng2        :        <Eqpt::ChannelGroupId>        / <Eqpt::SubChannelGroupId>        /        <Eqpt::Ng2OntId>        / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId>        voip:ng2        :        <Eqpt::ChannelGroupId>        / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId>   mcast : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId>   uni : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId>   voip : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId>        mcast:ng2        :        <Eqpt::ChannelGroupId>        / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> ) Possible values: - mcast : multicast - mcast:ng2 : ngpon2 multicast style identification - uni : uni - uni:ng2 : ngpon2 UNI style identification - voip : voip - voip:ng2 : voip Field type <Eqpt::RackId> - the rack number	pm index

Resource Identifier	Type	Description
	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::ChannelGroupId> - the channel group identifier Field type <Eqpt::SubChannelGroupId> - the subchannel group identifier Field type <Eqpt::OntId> - the ONT identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT 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	
interval-no	Parameter type: <Gpon::IntervalNo> Format: - a number of a previous interval number - range: [1...32]	identifies prev 15min intvls, val 1 as the latest intvl

## Command Output

**Table 97.3-2 "show TC-layer ONT side Previous Interval Performance Data Status Command"  
Display parameters**

Specific Information		
name	Type	Description
tx-gem-frames	Parameter type: <Counter> - 32 bit counter	count of transmit gem frames direction <i>This element is always shown.</i>
rx-gem-frames	Parameter type: <Counter> - 32 bit counter	count of received gem frames <i>This element is always shown.</i>
tx-payload-bytes	Parameter type: <OctetCounter64> - 64 bit counter, range: [0-9223372036854775808]	count of transmit payload bytes <i>This element is always shown.</i>
rx-payload-bytes	Parameter type: <OctetCounter64> - 64 bit counter, range: [0-9223372036854775808]	count of recieved payload bytes <i>This element is always shown.</i>
encrypkey-errors	Parameter type: <Counter> - 32 bit counter	count of get encrypt key errors <i>This element is always shown.</i>