

## ***64- IpHost Configuration Commands***

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## 64.1 IpHost Configuration Command Tree

### Description

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

### Command Tree

```
----configure
  ----[no] iphost
    ----[no] ont
      - (index)
      - [no] ip-address
      - [no] net-mask
      - [no] default-router
      - [no] dns-addr
      - [no] sec-dns-addr
      - [no] dhcp
      - [no] dhcp-dscp
      - [no] host-id
      - [no] ping
      - [no] traceroute
      - vlan
      - [no] admin-state
    ----performance-monitor
      - [no] pm-collect
```

## 64.2 Voice Ont IP-Host Configuration Command

### Command Description

*This command creates an IP host in the ONT. It must be created prior to creating services on an ONT that will use this IP stack.*

*Prior to entering this command the following must have been already created: S-VLAN to associate for this stack The ONT for this stack*

*If DHCP is enabled, the addressed obtain will override manual provisioning of ip-address, net-mask, default-router*  
**NOTE:** Allowable range for IP address is 0.0.0.0 to 255.255.255.255 OLT prohibits the entry of the following range of well-known IP addresses: 224.0.0.0 to 239.255.255.255 (multicast) 127.0.0.0 to 127.255.255.255 (loopback) 256.256.256.256 (broadcast)

### User Level

*The command can be accessed by operators with sip,megaco,vlan privileges, and executed by operators with sip,megaco,vlan privileges.*

### Command Syntax

The command has the following syntax:

```
> configure iphost ( no ont (index) ) | ( ont (index) [ no ip-address | ip-address <Gpon::Ipaddr> ] [ no net-mask |
net-mask <Gpon::Ipaddr> ] [ no default-router | default-router <Gpon::Ipaddr> ] [ no dns-addr | dns-addr
<Gpon::Ipaddr> ] [ no sec-dns-addr | sec-dns-addr <Gpon::Ipaddr> ] [ no dhcp | dhcp <Gpon::IpHostDhcp> ] [ no
dhcp-dscp | dhcp-dscp <Gpon::SigDscp> ] [ no host-id | host-id <Gpon::ClientID> ] [ no ping | ping <Gpon::Ping>
] [ no traceroute | traceroute <Gpon::Traceroute> ] [ vlan <Vlan::Index> ] [ no admin-state | admin-state
<Gpon::ItfAdminStatus> ] )
```

### Command Parameters

**Table 64.2-1 "Voice Ont IP-Host Configuration Command" Resource Parameters**

Resource Identifier	Type	Description
(index)	Format: ( ont : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::IpHostID>   vlanport : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlanport : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : <Eqpt::UnstackedVlan>   ont.ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Ng2::IpHostID>   vlanport.ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>	a unique interface index

Resource Identifier	Type	Description
	vlanport:ng2       :    <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni : <Eqpt::UnstackedVlan> ) Possible values: - ont:ng2 : ngpon2 ont - vlanport:ng2 : ngpon2 vlanport - ont : ont - vlanport : vlanport 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> - the subchannel group identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT identifier Possible values: - vuni : virtual uni identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Gpon::IpHostID> - iphost id Field type <Ng2::IpHostID> - iphost id (ngpon2) Possible values: - stacked : stacked vlan identity Field type <Eqpt::UnstackedVlan> - unstacked vlan id Field type <Eqpt::SVlan> - service vlan id Field type <Eqpt::CVlan> - customer vlan id	

Table 64.2-2 "Voice Ont IP-Host Configuration Command" Command Parameters

Parameter	Type	Description
[no] ip-address	Parameter type: <Gpon::Ipaddr> Format: - IPv4-address	<i>optional parameter with default value: "0.0.0.0"</i> IP address of the IP Host at the ONT. Note: IP@ and net-mask are required parameters and need to be entered at the same time.
[no] net-mask	Parameter type: <Gpon::Ipaddr> Format: - IPv4-address	<i>optional parameter with default value: "0.0.0.0"</i> IP address network mask of the IP Host at the ONT. Note: IP@ and net-mask are required parameters and need to be entered at the same time.
[no] default-router	Parameter type: <Gpon::Ipaddr>	<i>optional parameter with default</i>

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Parameter	Type	Description
	Format: - IPv4-address	value: "0.0.0.0" IP address of the default router
[no] dns-addr	Parameter type: <Gpon::Ipaddr> Format: - IPv4-address	optional parameter with default value: "0.0.0.0" address of the primary DNS server(when dhcp is disabled)
[no] sec-dns-addr	Parameter type: <Gpon::Ipaddr> Format: - IPv4-address	optional parameter with default value: "0.0.0.0" address of the secondary DNS server(when dhcp is disabled)
[no] dhcp	Parameter type: <Gpon::IpHostDhcp> Format: ( enabled   disabled ) Possible values: - enabled : DHCP is enabled - disabled : DHCP is disabled	optional parameter with default value: "disabled" designate whether DHCP is enabled
[no] dhcp-dscp	Parameter type: <Gpon::SigDscp> Format: - dscp value - range: [0...63]	optional parameter with default value: 24 dscp value for use in outgoing dhcp packets
[no] host-id	Parameter type: <Gpon::ClientID> Format: - to uniquely identify the VoIP Client. - length: x<=25	optional parameter with default value: "" dhcp option 61 clientid associated with the ip host
[no] ping	Parameter type: <Gpon::Ping> Format: ( enabled   disabled ) Possible values: - enabled : enable the ping facility - disabled : disable the ping facility	optional parameter with default value: "disabled" determines whether host should respond to ping
[no] traceroute	Parameter type: <Gpon::Traceroute> Format: ( enabled   disabled ) Possible values: - enabled : enable the traceroute facility - disabled : disable the traceroute facility	optional parameter with default value: "disabled" determines whether host should respond to traceroute messages
vlan	Parameter type: <Vlan::Index> Format: ( <Vlan::UVlanIndex>   stacked : <Vlan::SVlanIndexStacked> <Vlan::CVlanIndex> ) Possible values: - stacked : stacked vlan identity Field type <Vlan::UVlanIndex> - unstacked vlan identity - range: [1...4093,4096] Field type <Vlan::SVlanIndexStacked> - service vlan identity - range: [1...4093] Field type <Vlan::CVlanIndex> - customer vlan identity - range: [0...4093]	optional parameter The parameter is not visible during modification. vlan-id
[no] admin-state	Parameter type: <Gpon::ItfAdminStatus> Format:	optional parameter with default value: "up"

Parameter	Type	Description
	( up   down ) Possible values: - up : set the admin-state to up - down : set the admin-state to down	<i>The parameter is not visible during creation.</i> administrative state of the interface

## Command Output

Table 64.2-3 "Voice Ont IP-Host 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 <i>This element is always shown.</i>

## 64.3 Voice Ont IP-Host PM Mode Configuration Command

### Command Description

*This command allows the operator to configure the PM Mode of ONT IP Host monitoring*

### User Level

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

### Command Syntax

The command has the following syntax:

```
> configure iphost ont (index) performance-monitor [ no pm-collect | pm-collect <Gpon::PmEnable> ]
```

### Command Parameters

**Table 64.3-1 "Voice Ont IP-Host PM Mode Configuration Command" Resource Parameters**

Resource Identifier	Type	Description
(index)	Format: ( ont : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::IpHostID>   vlanport : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlanport : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : <Eqpt::UnstackedVlan>   ont.ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Ng2::IpHostID>   vlanport.ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlanport.ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni : <Eqpt::UnstackedVlan> ) Possible values: - ont.ng2 : ngpon2 ont - vlanport.ng2 : ngpon2 vlanport - ont : ont - vlanport : vlanport Field type <Eqpt::RackId> - the rack number	a unique interface 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::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: - vuni : virtual uni identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Gpon::IpHostID> - iphost id Field type <Ng2::IpHostID> - iphost id (ngpon2) Possible values: - stacked : stacked vlan identity Field type <Eqpt::UnstackedVlan> - unstacked vlan id Field type <Eqpt::SVlan> - service vlan id Field type <Eqpt::CVlan> - customer vlan id	

Table 64.3-2 "Voice Ont IP-Host PM Mode Configuration Command" Command Parameters

Parameter	Type	Description
[no] pm-collect	Parameter type: <Gpon::PmEnable> Format: ( disable   enable ) Possible values: - disable : disable the collection - enable : enable the collection	<i>optional parameter with default value: "disable"</i>