



## **Release Notes for the Cisco ME4600 ONT-OS Series**

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# Chapter 1

## ME4600 ONT Series Overview

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The CISCO ME4600 ONT RGW equipment runs the CISCO ME4600 ONT-OS software beginning with the Release 3.0.0. This document provides information about the ME4600 ONT-OS software release starting from ONT-OS 3.0.0 release.

## CISCO ME 4600 ONT Series Overview

The Cisco ME 4600 ONT Series equipment is an Optical Terminal Equipment (ONT) equipment for Passive Optical Networks (PON) termination in a FTTH (Fiber-To-The-Home) service delivery architecture. Cisco ME4600 ONT Series equipment communicates with the OLT (Optical Line Terminal) for the PON side and with the customer's premises for the client side. This equipment supports triple-play services - high speed internet (HSI), voice (VoIP), video (IPTV and RF Overlay) and WPS (Wi-Fi Protected Setup). The use of the GPON fiber access technology does allow a significant service delivery increase when compared with traditional xDSL technologies.

Cisco ME 4600 ONT Series equipment technology is based on GEM (GPON Encapsulation Method), and complies with ITU-T G.984.x. recommendation as like as G.984.4 (OMCI) ensuring interoperability with major GPON OLT vendors (BBF.247).

These base functionalities, together with the support for bit rates of up to 2.5 Gbps (downstream) and 1.24 Gbps (upstream), an optical network splitting ratio of up to 1:64 in a single fiber and a distance range of up to 60 km, make the GPON technology and the Cisco ME 4600 ONT Series equipment the most efficient option for passive optical network topologies, when integrated service delivery is an issue.

Together with multi-vendor OLT interoperability (BBF.247 certified), other differentiated features of the Cisco ME 4600 ONT Series equipment are the embedded RF Video Overlay as well as the chance to have several TV channel packs by means of using remote managed analog RF video overlay filters. The use of an embedded optical reflective component also increases probing resolution in case of FTTH probing.

As opposed to the point-to-point architecture, in which there is one physical port per client in the Central Office, in GPON point-to-multipoint architecture there is only a single laser and photo-detector in the Central Office (CO) to serve up to 64 CPEs. All the Optical Distribution Network is built by means of passive equipment modules with a long live MTBF standards and very low OPEX.

For more information on the CISCO ME4620 OLT please, visit:

<http://www.cisco.com/c/en/us/products/collateral/switches/me-4600-series-multiservice-optical-access-platform/datasheet-c78-730446.html>

# CISCO ME 4600 ONT RGW Equipment Overview

The Cisco ME 4600 ONT RGW equipment is a single household integrated CPE solution with ONT plus L2/L3 Gateway integrated features. This equipment family is the choice for full in-house multiplay service enable (Voice, Video and Data) especially devoted for FTTH. Deployment Wi-Fi 802.11 b/g/n is enabled. This equipment has built-in routing features that avoid the need for an external third party gateway.

Table 1. CISCO ME 4600 ONT RGW equipment interfaces

| Interface Type             | Number of interfaces |
|----------------------------|----------------------|
| GPON                       | 1                    |
| FXS                        | 2                    |
| Ethernet 10/100/1000Base-T | 4                    |
| RF video                   | 1                    |
| WI-FI 802.11 b/g/n 2.4GHz  | 2x2                  |
| USB                        | 2                    |

For more information please see any CISCO ME4600 ONT RGW user’s manual available from cisco.com.

## Documentation Roadmap

To view other documents for the CISCO ME4600 OLT Series please, visit:

<http://www.cisco.com/c/en/us/products/collateral/switches/me-4600-series-multiservice-optical-access-platform/datasheet-c78-730446.html>

## Determining the Software Version

You can verify your ME4600 ONT-OS software version by checking the “Software version”:

- at the equipment GUI interface Device Info main window at the “Software Version” field;

Please see your specific CISCO ME4600 ONT RGW user’s manual currently available from Cisco.com.

## Upgrading to a New Software Release

New software releases for the ME4600 Series ONT-OS are available from Cisco.com. New software Release Upgrade is usually performed remotely by the OLT equipment the ONT is connected to through the PON interface following the mechanisms specified in the ITU-T G.984.4 and G.988.

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### Note:

New software release upgrade can also be performed locally by authorized technician at the equipment GUI interface management menu, item Software Update.

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Please see your specific CISCO ME4600 ONT RGW user’s manual currently available from Cisco.com.

## Installation

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### Note:

In order to locally install ONT-OS, it is necessary be an authorized technician and have the admin credentials to access the ME4600 ONT equipment.

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- Step 1.** Login in the ME4600 ONT equipment GUI using admin account credentials.
- Step 2.** Import the new ME4600 ONT-OS selecting the Update Software item available on the Management menu
- Step 3.** Import the software following the information available on the window.

For more information on the use of these commands please see any your specific CISCO ME4600 ONT RGW user's manual currently available from Cisco.com.

# Chapter 2

## NEW FEATURES IN ME4600 ONT-OS 3.2 RELEASES

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This chapter provides information about the new features introduced in the Cisco ME4600 ONT-OS 3.2 Releases.

This chapter includes the following sections:

- New Software Features in Cisco ME4600 ONT-OS 3.2.0 Release

### New Software Features in Cisco ME4600 ONT-OS 3.2.0 Release

The ME4600 ONT-OS 3.2.0 Release for the CISCO ME4600 ONT Series introduces the following new Software features:

- **GPON/AE selection**
  - Selection of the Uplink (GPON/AE)
  - Query the Uplink interface status through CLI interface.

- **Zero touch configuration**

The equipment can load a database configuration based on information provided by WAN DHCP Server.

- ONT requests DHCP option 66 and option 67;
- The server sends a tftp URL and a fileName;
- ONT downloads fileName\_SN.conf file where SN is the ONT serial number.

ONT should download the when:

- DHCP Discover is sent;
- ONT should apply database that was downloaded when:
  - fileName is different from previous downloaded;
  - after restore configuration;
  - when content of fileName is different from previous downloaded.

- **802.1X Port-Based Authentication**

The ONT supports the 802.1X Port-Based Authentication - in the LAN side, users need to authenticate using the ONT in order to get access to the internet.

- **VoIP provision through OMCI**

The equipment supports VoIP provision through OMCI.

VoIP uses bronu interface.

- **VoIP – Configurable Interdigit Time**



The equipment supports the configuration of the interdigit time applied between VoIP number dialing before performing the call (between 4 and 12 seconds).

- **Hybrid Service Configuration**

The ONT-RGW is capable of configuring services terminated at Veip (L3) and Ethernet (L2) ports simultaneously. Note that if a bridged service is configured to an ethernet port, which port will act as a bridged port and to access the ONT's WEB GUI the user has to configure a static IP on his PC. Also note that, on WEB-GUI's interface grouping tab, will only be displayed the ethernet ports that hasn't L2 services configured. The same happens in lanVlan tab. If all the L2 services configured to an ethernet port are removed or if there is no L2 services on that port, it will act as a routing port.

By default, all ethernet ports are configured as routing ports.

- **VoIP Server Redundancy**

Server redundancy is often required to ensure continuity of phone service, for events where the server needs to be taken offline for maintenance, the server fails.

It is possible to configure:

- Two outbound proxies (primary and secondary).
- Register Expire (seconds)
- Register Retry Interval (seconds)

When the primary server registration is unavailable, the secondary server will serve as the working server.

- **Link Layer Discovery Protocol Support**

The ONT-RGW supports the Link Layer Discovery Protocol (LLDP). This feature can be configured by WEB GUI interface (at LAN tab) or by CLI.

The supported parameters of the protocol are:

- Hostname-Name of the equipment to be reported through LLDP;
- Interface List-List of interfaces where LLDP packets will flow (mandatory parameter);
- Management Ip-IP of the system/port sending the LLDP packets;
- System Description-Description of system sending the LLDP packets;
- Transmission Interval-Interval in LLDP transmitted packets;
- Transmission Hold-Value used to compute the time to live of each LLDP neighbor. TTL is equal to Transmission Hold\*Transmission Interval.

- **Support to PPPoL2TP Tunneling**

The ONT-RGW supports the Point to Point Layer 2 Tunneling Protocol (PPPoL2TP) used to establish PPP session with remote PPP concentrators, providing a Virtual Private Network (VPN).

- **Support IP Security Protocol (IPsec)**

- **Supplementary service codes on the WebGui**

The supplementary services in the "Sip Advanced setup" tab on the WebGui are configurable with other values than those configured by default.

- **QoS:**

- **Support of up to 8 LAN egress queues**

Support at least eight class queues for each egress port/interface, allowing traffic prioritization in upstream transmission direction.

- **IP , Routing and NAT**

- **Support RIP v1 and v2**

The ONT-RGW supports the following protocols:

- IETF RFC 1058 "Routing Information Protocol"
- IETF RFC 2453 "RIP Version 2"

Extension of the RIP to expand the amount of useful information carried in RIP messages and to add a measure of security.

The ONT provides RIP configured in passive mode, learning routes from other networks, without being intrusive with RIP route announces.

- **Support OSPF / OSPFv2**

The ONT-RGW supports the following protocol:

- IETF RFC 1131 "The OSPF Specification"
- OSPFv2 according to IETF RFC 2328

- **Support BGP-4**

ONT-RGW supports BGP routing protocol version 4, according with the following standard:

- RFC 4271 - "A Border Gateway Protocol 4 (BGP-4)".

- **SNMP agent supports Authentication and Encryption**

ONT's SNMP agent supports access with authentication and encryption, as defined in SNMPv3

ONT sends authentication traps on authentication failure

# Chapter 3

## NEW FEATURES IN ME4600 ONT-OS 3.1 RELEASES

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This chapter provides information about the new features introduced in the Cisco ME4600 ONT-OS 3.1 Releases.

This chapter includes the following sections:

- New Software Features in Cisco ME4600 ONT-OS 3.0.0 Release

## New Software Features in Cisco ME4600 ONT-OS 3.1.0 Release

The ME4600 ONT-OS 3.1.0 Release for the CISCO ME4600 ONT Series introduces the following new Software features:

- **GPON**
  - RF Support
    - Enable/Disable the RF interface
    - Read RF Power.
    - RF Signal to High Alarm.
    - RF Signal to Low Alarm.
    - RF Loss Of Signal
- **IP, Routing and NAT**
  - DHCP Lease time changed to 3600s by default
  - Permanent DHCP Lease
  - Define Client Default NTP Servers
  - DHCP client retry time – it will double up to 64 seconds in case of not getting a response
  - DHCP and DNS static configuration
  - NAT 1:1
  - LAN side default gateway
- **Management**
  - WebGui – HTTP Secure
  - Configuration of multiple management users different from “admin”, “support” and “user”
  - Encrypted password in backup file
  - System uptime
  - Show IPv4, IPv6 and MAC address in WebGui (Summary tab)
  - Ethernet statistics

- WAN statistics
- Generate alarms when the Rx Optical Power passes some thresholds (1490nm)
- Generate alarms when the Rx Optical Power passes some thresholds (1550nm)
- SNMP - Agent: SNMPv2 and SNMPv3 support
- User management
- **VoIP**
  - Define Default Dial Plan according to Cisco requirements
  - Display VoIP account status
- **Support of Client User Interface for configuring the device**

# Chapter 4

## NEW FEATURES IN ME4600 ONT-OS 3.0 RELEASES

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This chapter provides information about the new features introduced in the Cisco ME4600 ONT-OS 3.0 Releases.

This chapter includes the following sections:

- New Software Features in Cisco ME4600 ONT-OS 3.0.0 Release

### New Software Features in Cisco ME4600 ONT-OS 3.0.0 Release

The ME4600 ONT-OS 3.0.0 Release for the CISCO ME4600 ONT Series introduces the following new software features:

- **GPON**
  - Read of Received Optical Power
  - Alarms of Received Optical Power Enable/Disable the RF interface
    - High Received Optical Power.
    - Low Received Optical Power
  - Alarms of Ethernet Ports
    - Loss of Signal
  - Counters of Ethernet Ports
  - Gempport counters
  - OMCI synchronize time message
- **IP, Routing and NAT**
  - IPv4 and IPv6 support
  - Multiple PPPoE interfaces – Support AUTO, PAP, CHAP and MS-CHAP authentication
  - Multiple IPoE interfaces – Fix and dynamic IP
  - Multiple NTP servers synchronization
  - NAT Masquerade
  - ALGs: FTP, TFTP, SIP, RTSP
  - DHCP Server /client – Static IP lease and multiple subnets support
  - Port Forwarding
  - Firewall/Filtering – Packet filtering based on interface, IP Address, protocol, port number
  - IGMP v2/v3 Multicast proxy and snooping
  - IPv6 – DHCPv6 client and prefix delegation
  - DNS Proxy
  - Dynamic DNS

- DHCP Server options:
  - DHCP 1 Subnet Mask
  - DHCP 3 Default Gateway
  - DHCP 6 Domain Server
  - DHCP 12 Host Name
  - DHCP 50 Requested IP Address
  - DHCP 51 Lease Time
  - DHCP 55 Parameter Request List
  - DHCP 60 Vendor Class Identifier
- **VoIP**
  - Up two VoIP SIP accounts
  - SIPv2 support
  - IMS support
  - T.38 Fax support
  - Support DTMF on RTP Events
  - Support inband DTMFs
  - Codecs:
    - ITU-T G.711(a/u)
    - ITU-T G.722
    - ITU-T G.729a
    - ITU-T G.723.1
    - ITU-T G.726
- **Wireless**
  - IEEE 802.11 b/g/n support – 2.4 GHz
  - Broadcast and non broadcast SSID
  - Manual and automatic channel selection
  - WPS support
  - Network Authentication: Open, WEP, WPA-PSK, WPA2-PSK, Mixed WPA2/WPA-PSK
  - Encryption: AES and TKIP
- **Management**
  - • WebGui – HTTP
  - • TR-069 – TR-098, TR-104 support
  - • SSH and Telnet access support

# Chapter 5

## RESTRICTIONS AND ISSUES IN CISCO ME4600 ONT-OS 3.2 RELEASES

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This chapter provides information about restrictions and Issues in CISCO ME4600 ONT-OS 3.2 releases.

This chapter contains the following sections:

- Limitations and Restrictions
- Issues in CISCO ME4600 ONT-OS 3.2 Releases

### Limitations and Restrictions

The following sections describe the CISCO ME4600 ONT-OS 3.2 limitations:

- Limitations and Restrictions in CISCO ME4600 ONT-OS 3.2.0 release

### Limitations and Restrictions in CISCO ME4600 ONT-OS 3.2.0 release

CISCO ME4600 ONT-OS 3.2.0 Release has the following limitations:

- **Loss of DB after performing a downgrade from 3.2.x version to 3.1.x/3.0.x versions**

### Issues in CISCO ME4600 ONT-OS 3.2 Releases

This section describes Issues in CISCO ME4600 ONT-OS 3.2 releases. The following information is provided for each issue:

- Symptom—Description of what is observed when the issue occurs.
- Conditions—Conditions under which the issue has been known to occur.
- Workaround—Solutions, if available, to counteract the issue.

The following sections describe the open and resolved Issues in 3.2 Releases:

- Open Issues – CISCO ME4600 ONT-OS 3.2.0
- Resolved Issues – CISCO ME4600 ONT-OS 3.2.0

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## Open Issues – CISCO ME4600 ONT-OS 3.2.0

This document section details the unexpected behavior that might be seen with the CISCO ME4600 ONT with ONT-OS Release 3.2.0

- CSC ONTOS-ME4600-2971

**Symptoms:** Wrong software version report after performing a software upgrade to the ONT through OMCI with commit and activate fields unselected.

**Conditions:** The described behavior also happens with commit selected and activate unselected.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2970

**Symptoms:** After change the ONT voice profile to Hungary and perform a reboot, the ONT enters into a reboot loop state.

**Conditions:** The described behavior is presented when accessing the webGUI voice menu.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2966

**Symptoms:** It's not possible change proxy-server port, outbound server port, registration server-port and registration expiration

**Conditions:** As described.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2958

**Symptoms:** Interface grouping error [after vlan disable - LAN side]

**Conditions:** As described.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2946

**Symptoms:** [QoS] Performance - Full Queues - High overflow

**Conditions:** When misbehaved data flow with a low priority starts occupying a considerable bandwidth the QoS system stops working.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2945

**Symptoms:** [QoS] Performance - Full Queues - Mild overflow

**Conditions:** When all queues are occupied there are some moments when the QoS mechanism does not work as expected.

Some of the events detected are the following:

- Data flow is completely cut from transmission permanently.
- Data flow is partially cut from transmission permanently.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2943

**Symptoms:** [QoS] - Queues Priority



**Conditions:** On the RGW WebGui it's referred "(lower value, higher priority)". During the Tests it was verified that it's the opposite: Higher value, higher priority.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2939

**Symptoms:** [CLI] PPPoE - Dial on Demand - IPv6

**Conditions:** When Dial on Demand feature is enabled, the IPv6CP protocol is abnormally terminated by the RGW on the PPPoE session establishment after an initial phase where it has followed the regular IPv6CP negotiation. This aborts the IPv6 connectivity procedure.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2936

**Symptoms:** [CLI] - IPv6 Prefix Information

**Conditions:** On the CLI interface it's not possible to obtain any details regarding the DHCPv6 IPv6 Delegated Prefix.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2935

**Symptoms:** [CLI] - PPPoE create - DHCPv6 IANA

**Conditions:** The "--dhcp6c-iana=enable" is not committed to the wan interface parameters when creating a PPPoE interface.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2930

**Symptoms:** [VoIP] Supplementary Services - Some are not working

**Conditions:** The following supplementary services are not working

- Warm Line
- Anonymous call blocking
- Anonymous calling

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2927

**Symptoms:** [VoIP] SIP Authentication Header

**Conditions:** In the first SIP REGISTER message the RGW SIP client sends the Authentication Field without any values on the nonce and response parameters.

This is not a standard behavior.

Usually on the first SIP register message no authentication header is included. Only after the server answers with the "401 Unauthorized" SIP message containing the type of authentication, nonce, realm, algorithm the client sends a new SIP REGISTER message with the Authentication message with the appropriate parameters and values.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2923

**Symptoms:** [VoIP] Secondary Proxy Server - Fallback - Active call Media Session

**Conditions:** During the proxy server switch the active call media session is lost.

The RGW stats answering with ICMP Destination unreachable (Port Unreachable) messages to the RTP packets sent by the media server. The RGW does not notify the telephone that the call is no longer active.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2907

**Symptoms:** [VoIP] - VIA Header

**Conditions:** The VIA header sent by the RGW on its SIP messages does not contain the source port used.

If by some reason the RGW SIP client is unable to use the source port 5060 the RGW will not be able to communicate with the SIP server as the messages sent by the Cisco VoIP server are sent to the SIP default port 5060 regardless of the port used on the IP/UDP packet.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2902

**Symptoms:** Loss of communication with the ONT after associate bridge 4 to ETH4

**Conditions:** When configuring 4 Bridges and one IPoE service for VoIP, associating the 4 bridges to 4 interfaces groupings, the access through WLAN becomes unavailable.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2900

**Symptoms:** [SNMP] Monitoring Support - No DHCP info available

**Conditions:** The CPE does not implement SNMP parameters to consult the DHCP pools and leases available.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2895

**Symptoms:** ONT is sending general Query when configured by port

**Conditions:** As described.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2889

**Symptoms:** [IPv6] - DHCPv6 Client - IPoE IPv6 Dual Stack Interface - No DHCPv4 Server Answer

**Conditions:** When a Dual Stack interface is created and the DHCPv4 Server on the WAN Interface is not active the HGW does not initiate the DHCPv6 Process in order to obtain the IPv6 configurations.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2888

**Symptoms:** [IPv6] - DHCPv6 Client - IPoE IPv6 Only Interface

**Conditions:** When a WAN IPv6 only interface is created the HGW device is unable to send DHCPv6 Solicit messages.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2867

**Symptoms:** FEC Downstream Counters increment on the wrong field.

**Conditions:** As described.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2862

**Symptoms:** WebGui error Statistics buttons.

- Conditions:** As described.
- Workaround:** There is no workaround
- CSC ONTOS-ME4600-2861

**Symptoms:** WebGui Transmit Optical Level error.

**Conditions:** The Transmit Optical Level shown in WebGui "Device Info->Statistics->Optical" is not always realistic.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-2858

**Symptoms:** GPON LINK and GPON AUTH LEDS wrong behavior when is in autofind and admin down mode

**Conditions:** The GPON LINK and GPON AUTH LEDS become fixed green after blinking for a few seconds, when the ONT is in autofind or admin down modes. This behavior transmits the wrong idea that the ONT is registered.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-2857

**Symptoms:** Internet connection LED status not according to connection status.

**Conditions:** When the GPON interface is disconnected (fiber cut) the Internet status led remains ON.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-2856

**Symptoms:** IPoE LED remains on with no IP at the WAN interfaces

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-2853

**Symptoms:** [ IPv6 ] IPv6 with QoE changes for IPV4

**Conditions:** Configuring the ONT7-RGW in dual stack and firewall enabled, there is no IPv6 traffic.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-2845

**Symptoms:** Set Maximum WI-FI Transfer Rate

**Conditions:** The value of the Wi-Fi bit rate is not configured when performing a Set Parameter Values to this parameter, through a CWMP Management platform (Cisco Prime Home for instance).

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-2840

**Symptoms:** VoIP: maximum number of supported calls should be 4 per VoIP account but only 2 calls are supported.

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-2839

**Symptoms:** VoIP: SDP Codecs

**Conditions:** The list of SDP codecs sent at the SDP message does not reflect the WebGui codec configuration.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2830

**Symptoms:** FXS Interface Electrical Characteristics - CLIR Not Supported/Configurable

**Conditions:** As described.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2825

**Symptoms:** SIP Invite without SDP

**Conditions:** In SIP trunk scenarios, sometimes the SIP Server sends an Invite without SDP. In this case, there is no audio on the call, which leads the call to be terminated by server.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2744

**Symptoms:** [IP, Routing and NAT] QoE - ICC Protection

**Conditions:** The CPE fails to provide service stability, affecting the Quality of Experience in real time services. This behavior is obvious when several services are configured with torrent traffic activity. After some minutes of activity, IPTV and VoIP are affected, causing the loss of VoIP calls and IPTV stream failures. This behavior occurred on both wireless and Ethernet interfaces, across several tests related to QoE, suggesting that the CPE cannot manage the amount of NATP sessions that can be allocated for each type of service (VoIP, IPTV and Best Effort for instance)..

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2743

**Symptoms:** It is not possible to Distinguish between Static and Dynamic Routes (RIP or BGP or OSPF)

**Conditions:** As described.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2689

**Symptoms:** Bridge Mode: Traffic flowing between ports

**Conditions:** When we have the Services configured to the ONT up to the Eth ports we see that the traffic that is broadcasted is going out in the other ports duplicated (with and without VLAN).

The Broadcast packets are going in ETH ports that don't belong to the service, in this case they will go untag. These packets shouldn't appear in this different bridge.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2471

**Symptoms:** Packets not being counted in TX of ONU ethernet port Statistics

**Conditions:** When transmitting Multicast Traffic in downstream, the packets are not being counted in TX of the ONU ethernet port statistics.

**Workaround:** There is no workaround

- CSC ONTOS-ME4600-2271

**Symptoms:** Active channels displayed on the OLT after cut the fiber

**Conditions:** As described.

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- Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1822
    - Symptoms:** Alarm error on disable/enable CATV port at the ME4620OLT
    - Conditions:** Begin and End RF LOS Alarms are incorrectly presented in the OLT after enabling, disabling and re-enabling the CATV port in the OLT.
    - Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1764
    - Symptoms:** ONT access failure during service configuration
    - Conditions:** Eth0 port becomes temporarily inaccessible when two WAN bridge services are configured on the ONT (associated to two unicast services previously created on the OLT). The port response recovers after a few seconds.
    - Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1757
    - Symptoms:** Music on Hold not working
    - Conditions:** As described.
    - Workaround:** There is no workaround

## Resolved Issues – CISCO ME4600 ONT-OS 3.2.0

This section documents the issues that have been resolved in CISCO ME4600 ONT with ONT-OS Release 3.2.0.

- CSC ONTOS-ME4600-2485
  - Symptoms:** Using a single tagged rule add operation with a BitStream unstacked service the traffic does not flow in the downstream direction.
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2453
  - Symptoms:** Firewall - LAN Side Firewall Unexpected Behavior.
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2383
  - Symptoms:** WPS LED behavior is not according to the standard
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2305
  - Symptoms:** WebGui Ethernet Drops Statistics is not being correctly presented
  - Conditions:** As described.
  - Workaround:** There is no workaround

- CSC ONTOS-ME4600-2303
  - Symptoms:** WebGui DHCP LAN server configuration disabled after creating a bridge service
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2284
  - Symptoms:** Router - Firewall and Security - IP Filtering - Incoming IP Filtering Rule Removal is not applied; the rule remains active.
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2280
  - Symptoms:** CLI - PPPoE services - error when configuring PPPoE WAN interfaces becoming impossible to access telnet and WEBGUI being necessary to perform a reboot to the device
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2278
  - Symptoms:** CLI - IPoE services command -It is not possible to configure IPoE through without specifying all the parameters; a reboot is necessary to recover
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2277
  - Symptoms:** CLI - IPoE services - error when configuring IPoE WAN
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-1885
  - Symptoms:** ONT service recovery failure after signal interruption at the ME4620OLT
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-1362
  - Symptoms:** Maximum number of services.
  - Conditions:** As described.
  - Workaround:** There is no workaround.

# Chapter 6

## RESTRICTIONS AND ISSUES IN CISCO ME4600 ONT-OS 3.1 RELEASES

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This chapter provides information about restrictions and Issues in CISCO ME4600 ONT-OS 3.1 releases.

This chapter contains the following sections:

- Limitations and Restrictions
- Issues in CISCO ME4600 ONT-OS 3.1 Release

### Limitations and Restrictions

The following sections describe the CISCO ME4600 ONT-OS 3.1 limitations:

- Issues in CISCO ME4600 ONT-OS 3.1 Release

### Issues in CISCO ME4600 ONT-OS 3.1 Releases

This section describes Issues in CISCO ME4600 ONT-OS 3.1 releases. The following information is provided for each issue:

- Symptom—Description of what is observed when the issue occurs.
- Conditions—Conditions under which the issue has been known to occur.
- Workaround—Solutions, if available, to counteract the issue.

The following sections describe the open and resolved Issues in 3.4 Releases:

- Resolved Issues – CISCO ME4600 ONT-OS 3.1.3
- Resolved Issues – CISCO ME4600 ONT-OS 3.1.2
- Resolved Issues – CISCO ME4600 ONT-OS 3.1.1
- Resolved Issues – CISCO ME4600 ONT-OS 3.1.0

### Resolved Issues – CISCO ME4600 ONT-OS 3.1.3

This section documents the issues that have been resolved in CISCO ME4600 ONT with ONT-OS Release 3.1.3.

- CSC ONTOS-ME4600-2788  
**Symptoms:** Interdigit Timer too fast.

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**Conditions:** The 4 seconds interdigit timer is too fast. This timer should be changed to 10 seconds.

**Workaround:** There is no workaround.

## Resolved Issues – CISCO ME4600 ONT-OS 3.1.2

This section documents the issues that have been resolved in CISCO ME4600 ONT with ONT-OS Release 3.1.2.

- CSC ONTOS-ME4600-2674
  - Symptoms:** VMWI doesn't work with some SIP servers
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2673
  - Symptoms:** Answering Machine don't stop to recording after peer terminate the call
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2670
  - Symptoms:** BRONU interface goes down.
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-2509
  - Symptoms:** WI-FI Performance.
  - Conditions:** As described.
  - Workaround:** There is no workaround
- CSC ONTOS-ME4600-1371
  - Symptoms:** ME4624-ONT-RGW: Unusual IGMP packets on Bridge services.
  - Conditions:** As described.
  - Workaround:** There is no workaround.

## Resolved Issues – CISCO ME4600 ONT-OS 3.1.1

This section documents the issues that have been resolved in CISCO ME4600 ONT with ONT-OS Release 3.1.1

- CSC ONTOS-ME4600-2462
  - Symptoms:** Error in number of active calls becoming impossible to perform a call
  - Conditions:** As described.
  - Workaround:** There is no workaround



- CSC ONTOS-ME4600-2446  
**Symptoms:** Timer Correction when a call ends; the busy tone is not according to CISCO requirements  
**Conditions:** As described.  
**Workaround:** There is no workaround
- CSC ONTOS-ME4600-2400  
**Symptoms:** TR-069 Overall Stability- CPE instability when uploading invalid configuration file  
**Conditions:** As described.  
**Workaround:** There is no workaround
- CSC ONTOS-ME4600-2397  
**Symptoms:** RGW - MWI (message waiting indicator) feature doesn't work- The ONT does not send FSK signal to the phone terminal  
**Conditions:** As described.  
**Workaround:** There is no workaround
- CSC ONTOS-ME4600-2396  
**Symptoms:** RGW - SNMP Agent Memory Leak- abnormal memory consumption leads to the device freezing  
**Conditions:** As described.  
**Workaround:** There is no workaround

## Resolved Issues – CISCO ME4600 ONT-OS 3.1.0

This section documents the issues that have been resolved in CISCO ME4600 ONT with ONT-OS Release 3.1.0.

- CSC ONTOS-ME4600-2316  
**Symptoms:** ME4624-ONT-RGW: Some ONT doesn't detect optical PWR  
**Conditions:** As described.  
**Workaround:** There is no workaround
- CSC ONTOS-ME4600-2240  
**Symptoms:** ME4620OLT - the alarm begin 1490 optical power above threshold is triggered for -8 dBm and should be -10dBm  
**Conditions:** As described.  
**Workaround:** There is no workaround
- CSC ONTOS-ME4600-1810  
**Symptoms:** ME4624-ONT-RGW: Call waiting with flash hook  
**Conditions:** As described.  
**Workaround:** There is no workaround
- CSC ONTOS-ME4600-1756  
**Symptoms:** Call Waiting not working

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- Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1585
    - Symptoms:** VoIP - FXS LEDs: When one account is assigned to both the FXS port only one LED is ON

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1565
    - Symptoms:** Configuration SSID Wi-Fi; SSID is not generated according to Cisco requirements

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1564
    - Symptoms:** ME4624-ONT-RGW: GPON Led behavior failure

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1551
    - Symptoms:** ME4624-ONT-RGW: Wi-Fi Power ON/OFF on Button won't gain persistence

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1498
    - Symptoms:** RGW - NTP is not configured with all NTP servers - Failover fail

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1476
    - Symptoms:** RGW - VoIP Password is visible in WebGui

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1475
    - Symptoms:** TR-069 - No Connection Request URL in Dual Stack Interfaces

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1474
    - Symptoms:** ME4624-ONT-RGW: ONT Web GUI - Statistics - Optical - Link Status information incorrect

**Conditions:** As described.

**Workaround:** There is no workaround
  - CSC ONTOS-ME4600-1473
    - Symptoms:** ME4624-ONT-RGW: ONT Web GUI - Statistics - Optical - Tx Optical Level incorrect value

**Conditions:** As described.

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- Workaround:** There is no workaround

    - CSC ONTOS-ME4600-1464
      - Symptoms:** RGW - Port Mirror is not working
      - Conditions:** As described.
      - Workaround:** There is no workaround
    - CSC ONTOS-ME4600-1439
      - Symptoms:** CPE – It is not possible to configure different default gateways for different bridges.
      - Conditions:** As described.
      - Workaround:** There is no workaround.
    - CSC ONTOS-ME4600-1360
      - Symptoms:** ME4624-ONT-RGW: VOIP LEDs remain ON when the WAN VOIP service is disabled on ONT TI
      - Conditions:** As described.
      - Workaround:** There is no workaround
    - CSC ONTOS-ME4600-1211
      - Symptoms:** LAN – IPv6 DNS Relay dual stack incongruence IPv4 DNS stops working
      - Conditions:** As described.
      - Workaround:** There is no workaround