



Release Notes for the Cisco ME4600 OLT-OS 3.6 Series

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Chapter 1

ME4600 OLT Series Overview

The CISCO ME4600 OLT series runs the CISCO ME4600 OLT-OS software beginning with the Release 3.1.1. This document provides information about the ME4600 OLT-OS software release starting from OLT-OS 3.6.1 release.

CISCO ME 4600 OLT Series Overview

For the central office, the Cisco ME 4600 Series Multiservice Optical Access Platform portfolio is based on a flexible and scalable architecture. Cisco offers the best-of-class solutions in the market designed to evolve easily, from rural and low-density multidwelling unit (MDU) scenarios, using only 8 Gigabit Ethernet and 8 GPON port equipment (Cisco ME 4601 OLT), up to urban and extremely high density, using 768 Gigabit Ethernet and 256 GPON port equipment (Cisco ME 4620 OLT). Cisco ME 4600 Series OLT equipment also implements the features required for residential, business, and enterprise services to be provisioned on an end-to-end basis, with appropriate service-level agreements (SLAs), thus allowing required bit rates to be reserved for each dedicated client needs.

The Cisco ME 4600 Series OLT is a reliable high-availability system that uses common-element 1:1 protection for power, control, switching, and processing, with load balancing link aggregation groups (LAG) and Link Aggregation Control Protocol (LACP) at the uplink interfaces. Ethernet ring protection switching (ERPS) mechanisms based on ITU-T G.8032 are available for access-network upper-layer interconnection. For the client side, Type B protection for GPON ports is available according to ITU-T Recommendation G.984.x. From a security perspective, the Cisco ME 4600 Series OLT supports features that help prevent denial of service (DoS) attacks and fake customer Trojan mechanisms, including Access Control Lists (ACLs), MAC duplication prevention, MAC and IP spoofing prevention, broadcast rate control, and user isolation.

Residential Services

The Cisco ME 4600 Series OLT supports residential broadband aggregation for delivering multiplay services over optical fiber access networks. Designed to support thousands of subscribers from a single OLT, the Cisco ME 4600 Series OLT offers multiple deployment and provisioning models, including 1:1 and N:1 VLAN configurations with quality of service (QoS), resulting in a greatly enhanced broadband user experience. The feature-rich Cisco ME 4600 Series OLT supports a variety of broadband video applications, including RF overlay, IPTV, and video on demand (VoD), with support for IP multicast (IGMPv2/v3 and MLDv2) and Dynamic Host Configuration Protocol (DHCP) Relay Agent (DHCP Option 82 for IPv4 and DHCP Options 18/37 for IPv6). These features enhance and extend the Cisco IP Next-Generation Network (NGN) architecture to the residential environment.

Business Services

The Cisco ME 4600 Series OLT is built to meet service provider requirements for Carrier Ethernet aggregation and transparent LAN services. The Cisco ME 4600 Series OLT offers service flexibility and delivers Layer 2 transport for advanced Layer 2 and Layer 3 VPN and business services, including circuit emulation services (CES) to transport time-division multiplexing (TDM) traffic over packet networks with appropriate clocking, synchronization, and timing

features. VLAN translation and promotion features with the required QoS complement the comprehensive functions needed to interconnect business branches over a P2P or P2MP network topology.

Mobile Backhaul Services

With the growing demand on mobile backhaul networks to support third-generation (3G) and fourth-generation (4G) services, PON and Gigabit Ethernet have become the most common options for backhaul. Deployed as a pre-aggregation platform for mobile backhaul, the Cisco ME 4600 Series OLT can aggregate cell sites and serve as a transport solution for Radio Access Network (RAN) backhaul traffic. The Cisco ME 4600 Series OLT provides the timing services required in today's converged access networks by offering integrated support for the Building Integrated Timing Supply (BITS), 10 MHz, 1 pulse per second (1PPS), and time of day (TOD) interfaces. The Cisco ME Series 4600 OLT also supports synchronous Ethernet (SyncE) and IEEE-1588 functionalities, and it can act as the source for network clocking for TDM, SDH and SONET, SyncE, and GPS interfaces. In addition to the timing services, the Cisco ME 4600 Series OLT offers a compact option that can also be deployed in small and harsh environments, due to its shallow depth and qualification for extended temperature ranges.

ME 4620 OLT Overview

The ME4620 OLT is a Multiservice Optical Access Platform based on a flexible and scalable architecture for urban and extremely high density scenarios able to provide up to 256 GPON and 768 Gigabit Ethernet ports.

The Cisco ME4620 OLT is an ETSI 19" rack size, 14RU, 20 slots fully modular platform supporting up to 18 line cards, two redundant Switch Fabric Cards, dual power supply inputs and a proper fan module. The CISCO ME4620 OLT is natively prepared to evolve to XGPON and NGPON2 access technologies.

For more information on the CISCO ME4620 OLT please see:

<http://www.cisco.com/c/en/us/products/collateral/switches/me-4600-series-multiservice-optical-access-platform/datasheet-c78-730445.pdf>

ME4620 OLT Supported System Units

The supported system units are listed below in Table 1.

Table 1. OLT-OS Supported System Units

Part Number	Description
ME4600-XCO-640	Cisco ME4600 XCO 640Gbps Switch Fabric Card
ME4600-AMX-16GPON	Cisco ME4600 AMX Access Card with 16 x GPON (SFPs not included)
ME4600-UMX-4x10GE	Cisco ME4600 UMX Uplink Card with 4 x 10GE (XFPs not included)
ME4600-AMX-48GE	Cisco ME4600 AMX Access Card with 48 x GE (SFPs/CSFPs not included)

ME 4605 OLT Overview

The ME4605 OLT is a Multiservice Optical Access Platform based on a flexible and scalable architecture for urban, low-density multi dwelling unit (MDU) scenarios able to provide up to 48 GPON ports and 144 Gigabit Ethernet ports.

The Cisco ME4605 OLT is an ETSI 19” rack size, 3RU, 5 slots fully modular platform supporting up to 3 line cards, two redundant Switch Fabric Cards, dual power supply inputs and a proper fan module.

For more information on the CISCO ME4605 OLT please see:

<http://www.cisco.com/c/en/us/products/collateral/switches/me-4600-series-multiservice-optical-access-platform/datasheet-c78-730445.pdf>

ME 4605 OLT supported System Units

The supported system units are listed below in Table 1.

Table 2. OLT-OS Supported System Units

Part Number	Description
ME4600-XCO-162i	Cisco ME4600 XCO 160Gbps Switch Fabric Card with 2 x 10GE uplink ports (SFP+ modules are not included)
ME4600-AMX-16GPON	Cisco ME4600 AMX Access Card with 16 x GPON (SFPs not included)
ME4600-AMX-48GE	Cisco ME4600 AMX Access Card with 48 x GE (SFPs/CSFPs not included)

ME 4601 OLT Overview

The ME4601 OLT is a standalone Multiservice Optical Access Platform for rural and urban low-density multi dwelling unit (MDU) scenarios.

The Cisco ME4601 OLT is an ETSI 19”, 1RU, standalone system with the following characteristics:

- 1 x Matrix/processing,
- 4x SFP+ 10GE ports (SFP+ modules not included),
- 4x SFP GbE ports (SFP and CSFP modules not included),
- 8xSFP GPON interfaces (SFP modules not included),
- Dual power supply inputs,
- 1x fan module.

For more information on the CISCO ME4601 OLT please see:

<http://www.cisco.com/c/en/us/products/collateral/switches/me-4600-series-multiservice-optical-access-platform/datasheet-c78-730445.pdf>

Additional Documentation

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

<http://www.cisco.com/c/en/us/products/switches/me-4600-series-multiservice-optical-access-platform/index.html>
<http://www.cisco.com/c/en/us/support/switches/me-4600-series-multiservice-optical-access-platform/products-release-notes-list.html>
<http://www.cisco.com/c/en/us/support/switches/me-4600-series-multiservice-optical-access-platform/products-installation-and-configuration-guides-list.html>

Determining the Software Version

You can verify your ME4600 OLT-OS software version by checking the “Firmware version”:

- at the equipment WEBTI interface main window “Configuration → System” at the “Firmware Version” field;
- at the equipment CLI by using the command “/equipment/system/show”;

Please see CISCO ME4600 OLT series user manuals currently available from Cisco.com.

Upgrading to a New Software Release

New software releases for the ME4600 Series OLT-OS may be downloaded directly from Cisco.com.

Software Dependencies

There are no SW dependencies.

Installation

Note:

In order to install OLT-OS, it is necessary to have free space available at the OLT switch fabric flash memory storage.

If any problem occurs during the installation process please contact the support team.

Step 1. Download the ME4600 Series OLT-OS version from Cisco.com to a TFTP server.

Step 2. Login in the ME4600 OLT using CLI admin account credentials.

Step 3. Import the new ME4600 OLT-OS setup file by using a TFTP client and by typing the following command
: /applications/olt-upgrade/import

Step 4. Update the OLT-OS with the imported setup file with the following command: /applications/olt-upgrade/apply-file

For more information on the use of these commands please see any CISCO ME4600 OLT series user manual available from cisco.com.

Chapter 2

NEW FEATURES IN ME4600 OLT-OS 3.6 RELEASES

This chapter provides information about the new features introduced in the Cisco ME4600 OLT-OS 3.6 Releases.

Following sections are included:

- New Software Features in Cisco ME4600 OLT-OS 3.6.0 Release

New Software Features in Cisco ME4600 OLT-OS 3.6.0 Release

The ME4600 -OLT OS 3.6.0 Release for the CISCO ME4600 OLT Series introduces support for the following new software features:

New Feature	Description
CSC OLTOS-ME4600-18375	NTA Status support via OMCI Channel
CSC OLTOS-ME4600-18155	Synchronism (BITS interface): 1.544MHz/1.544Mb/s
CSC OLTOS-ME4600-15441	Support of SNMP trap that signalize the SN associated to an ONU-ID
CSC OLTOS-ME4600-15440	ONU Password then SN registration mode (Password Once)
CSC OLTOS-ME4600-15146	Support up to 10 simultaneous SNMP managers
CSC OLTOS-ME4600-15114	Ports description
CSC OLTOS-ME4600-14667	Support of AMX-48GEi Line card
CSC OLTOS-ME4600-14158	Support of Cisco SFP and XFP
CSC OLTOS-ME4600-12281	QoS Egress Shaping
CSC OLTOS-ME4600-12083	Dynamic ARP Inspection (DAI)
CSC OLTOS-ME4600-12082	SYNC-E on GPON and Active Ethernet interfaces
CSC OLTOS-ME4600-12080	Storm Control of Unknown Unicast, Multicast and Broadcast traffic per interface
CSC OLTOS-ME4600-12079	MAC limiting per interface
CSC OLTOS-ME4600-12076	Support ERPS G.8032 for ME4605 and ME4601
CSC OLTOS-ME4600-12073	Ingress policing per Traffic Class
CSC OLTOS-ME4600-12072	QoS Traffic Classification based on P-bits, IP DSCP and IP Precedence per port
CSC OLTOS-ME4600-12069	Support HTTPS
CSC OLTOS-ME4600-12068	Multicast Channel Packages
CSC OLTOS-ME4600-12063	Support 16K Multicast Channels (only 4K active)
CSC OLTOS-ME4600-12061	Support RADIUS for user authentication, authorization and accounting (AAA)
CSC OLTOS-ME4600-7859	Queuing management and WRR Scheduling enhancements

CSC OLTOS-ME4600-5831	Support WebTI cross-browser
CSC OLTOS-ME4600-5579	Support 1:128 splitting ratio (128 ONTs per PON)
CSC OLTOS-ME4600-5129	Support TACACS+ for user authentication, authorization and accounting (AAA)

Chapter 3

RESTRICTIONS AND ISSUES IN CISCO ME4600 OLT-OS 3.6 RELEASES

This chapter provides information about restrictions and issues in CISCO ME4600 OLT-OS 3.6 releases.

This chapter contains the following sections:

- Limitations and Restrictions.
- Issues in CISCO ME4600 OLT-OS 3.6 Releases.

Limitations and Restrictions

The following limitations apply to the CISCO ME4600 OLT-OS 3.6 Releases:

Ethernet Protection

- Is not possible to apply an Ethernet Uplink 1+1 Protection on Stacked Services (except for MAC Bridge services).

IP source Guard + GPON Protection

- IPSG must not be used simultaneously with GPON Type-B Protection.

Multicast

- Maximum number of simultaneous multicast channels:
 - ME4620 OLT and ME4605 OLT: 4K
 - ME4601 OLT: 2K

Services

- Not able to create 9th service with DHCP enabled

Issues in CISCO ME4600 OLT-OS 3.6 Releases

This section describes Issues in CISCO ME4600 OLT-OS 3.6 releases. The following information is provided for each issue:

- Description - A description of what is observed when the issue occurs.
- Workaround - Solutions, if available, to counteract the issue.

The following sections describe the open and resolved issues in 3.6 Releases:

- Open Issues – CISCO ME4600 OLT-OS 3.6.3
- Resolved Issues – CISCO ME4600 OLT-OS 3.6.3
- Resolved Issues – CISCO ME4600 OLT-OS 3.6.2
- Resolved Issues – CISCO ME4600 OLT-OS 3.6.1

Open Issues – CISCO ME4600 OLT-OS 3.6.3

This document section details the unexpected behavior that might be seen with the CISCO ME4600 OLT with OLT-OS Release 3.6.3

Issue	Description	Workaround
CSC OLTOS-ME4600-18768	DAI: statistics only increments on downstream	There is no workaround
CSC OLTOS-ME4600-18823	MAC Table: The value displayed for VLAN on MAC Table does not make sense	There is no workaround
CSC OLTOS-ME4600-18577	When the value of the % in the egress shaping per port is 0 the traffic isn't dropped	There is no workaround
CSC OLTOS-ME4600-18834	If Type B protection is in protection path, the GPON Statistics does not work.	There is no workaround
CSC OLTOS-ME4600-18879	In case of Default Multicast Channel entry have incorrect Source IP, an error message does not appear.	There is no workaround
CSC OLTOS-ME4600-18822	When making cos-queue configuration on a interface that belongs to a lag, an error message does not appear	There is no workaround
CSC OLTOS-ME4600-18818	Protection type B: failure in the 2nd configuration, the status are "error"	There is no workaround
CSC OLTOS-ME4600-18829	In case of 128 ONTs inserted in a PON, the command to read GPON Rx power returns timeout	There is no workaround
CSC OLTOS-ME4600-18819	It is not possible to configure expected values MAC aging time	There is no workaround
CSC OLTOS-ME4600-18820	With MC services configured in more than one ONT, if these services are removed from SFU-ONT, traffic is not blocked.	There is no workaround
CSC OLTOS-ME4600-18836	When a Bit stream service is created with more than 1 uplink, an error message does not appear.	There is no workaround
CSC OLTOS-ME4600-18830	CFM probe alarms - LOC and RDI (Field AlarmPartId)	There is no workaround
CSC OLTOS-ME4600-18838	The Error returned when counters are started in a AMX-48GE for unstacked service is not clear	There is no workaround

CSC OLTOS-ME4600-18826	ME4601 OLT - GPON MAC-limit is not sending trap.	There is no workaround
CSC OLTOS-ME4600-19216	The protection type B alarm is not sent to AGORANG	There is no workaround
CSC OLTOS-ME4600-19218	CLI: the creation of a UniVoip service associated with an ethernet ports in AMX-48GE is allowed, when it should not be.	There is no workaround
CSC OLTOS-ME4600-19220	CLI: Only 204 entries are correctly shown in Multicast Active Channels list of a client	There is no workaround
CSC OLTOS-ME4600-19288	Multicast - Channel clients are not listed in channel detail when using Unicast stacked services	There is no workaround
CSC OLTOS-ME4600-18816	When all maximum threshold (1 2 3) for tail drop management type are configured with the value 0, no traffic is dropped	There is no workaround
CSC OLTOS-ME4600-19210	CFM probes - it should not be possible to change the interface of an already existent probe, if it belongs to a different card	There is no workaround
CSC OLTOS-ME4600-18925	Pbit is changing when applying a policer	There is no workaround
CSC OLTOS-ME4600-18924	The color is not being applied on the PON interface (policers)	There is no workaround
CSC OLTOS-ME4600-18576	CLI: Wrong values for command parameters are accept	There is no workaround
CSC OLTOS-ME4600-19205	ME4620 OLT/ME4605 OLT/ME4601 OLT With 2 probes configured using the format Y.1731 and a T.Period of 10ms, the alarm log are constantly registering ME connection UP/Lost	There is no workaround
CSC OLTOS-ME4600-18800	Protection Type-B - Error creating services in cards in protection mode	There is no workaround
CSC OLTOS-ME4600-18801	It should be possible to configure CFM probes on the AMX-48GE Line Card	There is no workaround
CSC OLTOS-ME4600-18806	ME4601 OLT: MAC Bridge services Statistics not available	There is no workaround
CSC OLTOS-ME4600-18808	Protection Type-B - Abnormal behavior on protection PON (both leds are red)	There is no workaround
CSC OLTOS-ME4600-18813	The date and time for the RX Power in a PON interface are not synchronizing with the system	There is no workaround
CSC OLTOS-ME4600-18814	Uplink Protection: when group is created with LOS in Working path, switchover to protection does not occur	There is no workaround
CSC OLTOS-ME4600-19304	ME4601 OLT - It is not possible to configure an ACL rule with type-B protection configured on the system	There is no workaround
CSC OLTOS-ME4600-19306	Extended Vlan tagging Op. are not working correctly when using a rule of type <i>add</i> and <i>changing the pbit</i>	There is no workaround
CSC OLTOS-ME4600-19307	DHCP statistics by service are not correct for Mac bridge services	There is no workaround
CSC OLTOS-ME4600-19309	ME4601 OLT: When the maximum number of MAC addresses learned per service is reached, an alarm event is not generated.	There is no workaround
CSC OLTOS-ME4600-19310	ME4601 OLT - IGMP: With an host in filter mode exclude w/o sources and a host in filter mode include with sources, in matrix "exclude" channels are not present	There is no workaround
CSC OLTOS-ME4600-19311	Filter Treatment: Adding VLAN in single-tagged traffic changes the p-bit of internal VLAN	There is no workaround
CSC OLTOS-ME4600-19180	WEBTI_UX : Network Service with IGMP flag enabled associated to an ONU SFU -counter not correct for upstream	There is no workaround

	interface	
CSC OLTOS-ME4600-19213	WEBTI_UX: Not possible to see FAN card RPM in ME4601 OLT	There is no workaround
CSC OLTOS-ME4600-19231	WEBTI_UX: After upload ONT sw files with fields filled, the ASW HW version and Default appears empty	There is no workaround
CSC OLTOS-ME4600-19283	WEBTI_UX: Not possible to insert ONT with Sw upgrade as Specific version	There is no workaround
CSC OLTOS-ME4600-19292	WEBTI_UX : Client Service in AMX-48GE - Total counters with invalid data --	There is no workaround
CSC OLTOS-ME4600-19293	WEBTI_UX : Client Service in AMX-48GE - IGMP counters with invalid data -- in a unicast service	There is no workaround
CSC OLTOS-ME4600-19294	WEBTI_UX: GPON status distance value displayed not correct	There is no workaround
CSC OLTOS-ME4600-19330	WEBTI_UX: It's not possible to configure alarm report mode	There is no workaround

Resolved Issues – CISCO ME4600 OLT-OS 3.6.3

This section documents the issues that have been resolved in CISCO ME4600 OLT with OLT-OS Release 3.6.3

Issue	Description
CSC OLTOS-ME4600-25625	The temperature threshold have a wrong value (old=65°, new=85°)
CSC OLTOS-ME4600-25384	Ethernet counters SNMP walk does not work for ME4600-AMX-48GE, ME4600-AMX-48GED and ME4600-XCO-162i

Resolved Issues – CISCO ME4600 OLT-OS 3.6.2

This section documents the issues that have been resolved in CISCO ME4600 OLT with OLT-OS Release 3.6.2

Issue	Description
CSC OLTOS-ME4600-22398	Multicast Traffic blocked for Slot 14, if the last client in a differente slot performs Leave
CSC OLTOS-ME4600-22297	All Client Services have multicast packages attached without IGMP flag enabled
CSC OLTOS-ME4600-22064	WEBTI_UX: WEBTI report OK when the user restore a backup file that was created in a newer version
CSC OLTOS-ME4600-21911	Multicast traffic stops flowing after remove Multicast Package from a different client
CSC OLTOS-ME4600-21832	WEBTI_UX: After a sucessfull creation of a new LAG, reading and modification is not allowed
CSC OLTOS-ME4600-21823	CLI: If a Bitstream type of service is created using CLI interface, flag *mc-flood* is automatically enabled
CSC OLTOS-ME4600-21821	Update process in CLI: Import setup file reports Destination directory is not accessible
CSC OLTOS-ME4600-21811	CLI: NTP log alarm with incorrect text
CSC OLTOS-ME4600-21807	CLI: wrong error message if the setup file is corrupted when applying OLT-OS setup
CSC OLTOS-ME4600-21805	CLI: error 0x1E035120 has no description
CSC OLTOS-ME4600-21801	CLI: usage information for the addition of interfaces on an ACL is not correct

CSC OLTOS-ME4600-21776	UMX-4x10GE: XFP issue with PCB Version>=4
CSC OLTOS-ME4600-21763	ACL with empty name should not be possible.
CSC OLTOS-ME4600-21718	ME4601 OLT - ONTs status conf. error after reboot-all
CSC OLTOS-ME4600-21710	Multicast traffic not flowing in Clients of different PONs or different Cards
CSC OLTOS-ME4600-21699	Neophotonics GPON SFPs shows wrong PON Rx optical power
CSC OLTOS-ME4600-21690	It is possible to create and enable a service that contains a LAG interface that does not exist
CSC OLTOS-ME4600-21686	OLT crashes after reboot due a ACL ID greater than 99
CSC OLTOS-ME4600-21674	[ME4601 OLT] [SNMP] traps are not received if more than one manager is configured
CSC OLTOS-ME4600-21566	If an ONU profile is created with the same parameters of the SFU profile the RF filters do not work properly
CSC OLTOS-ME4600-21486	WEBTI_UX: After an upgrade to 3.6.1 is not possible to see the packages associated to a client service
CSC OLTOS-ME4600-21484	WEBTI_UX: Not possible to upload ONT software file
CSC OLTOS-ME4600-21160	Native services in RGW only work with p-bit 0
CSC OLTOS-ME4600-20690	AMX-16GPON Line card reboots sporadically
CSC OLTOS-ME4600-20631	Is possible to insert an ONT with ONT Profile in Admin down
CSC OLTOS-ME4600-19733	It is being possible to create an ACL port/service association with invalid values

Resolved Issues – CISCO ME4600 OLT-OS 3.6.1

This section documents the issues that have been resolved in CISCO ME4600 OLT with OLT-OS Release 3.6.1

Issue	Description
CSC OLTOS-ME4600-20509	After upgrading system from version 3.4.1 to version 3.6.1, LC enters in configuration error
CSC OLTOS-ME4600-20487	WEBTI_UX:It is not possible to allocate Upstream profiles in Client Services for AMX-48GE
CSC OLTOS-ME4600-20482	WEBTI_UX: In client service consultation always appears the information service of the first created.
CSC OLTOS-ME4600-20345	WEBTI_UX:Incoherence in the WEB with cli.olt on client services in ME4620 OLT with AMX-48GE
CSC OLTOS-ME4600-19846	WEBTI_UX: Support AMX-16GPON management PON interfaces: Received optical power: Missing ONU power entries
CSC OLTOS-ME4600-19802	WEBTI_UX: Ethernet Counters without valid values - always "--"
CSC OLTOS-ME4600-19561	During protection type B the Sync. Status is on the Error state.
CSC OLTOS-ME4600-19479	Client Service: The IGMP flag it is presented as enabled, when in equipment is disabled
CSC OLTOS-ME4600-18651	The error msg for invalid values on the query interval filed is not correct (The operation cannot be performed (21030104).)