Alcatel·Lucent

Release Notes

OmniSwitch 6855-P14

Release 6.4.4.R02

These release notes accompany release 6.4.4.R02 software for the OmniSwitch 6855-P14. They provide important information on individual software features and hardware modules. Since some of the information in these release notes is not included in the hardware and software user manuals, it is important that you read all sections of this document before installing new hardware or loading new software.

Note: 6.4.4.R02 is only supported on the OS6855-P14. Release 6.4.4.R02 supports the same features as 6.4.4.R01; these release notes should be used in conjunction with the 6.4.4.R01 release notes for software feature descriptions and open issues.

Related Documentation

These release notes should be used in conjunction with the OmniSwitch 6855-P14. The following are the titles and descriptions of the user manuals that apply to this release.

User manuals can be downloaded at:

http://enterprise.alcatel-lucent.com/?dept=UserGuides&page=Portal

- **OmniSwitch 6855 Series Getting Started Guide**
  Describes the hardware and software procedures for getting an OmniSwitch 6855 Series switch up and running.

- **OmniSwitch 6855 Series Hardware User Guide**
  Complete technical specifications and procedures for all OmniSwitch 6855 Series chassis, power supplies, and fans.

- **OmniSwitch CLI Reference Guide**
  Complete reference to all CLI commands supported on the OmniSwitch. Includes syntax definitions, default values, examples, usage guidelines, and CLI-to-MIB variable mappings.

- **OmniSwitch AOS Release 6 Network Configuration Guide**
  Includes network configuration procedures and descriptive information on all the major software features and protocols included in the base software package. Chapters cover Layer 2 information (Ethe rnet and VLAN configuration), Layer 3 information (routing protocols), security options (Authenticated Switch Access (ASA)), Quality of Service (QoS), link aggregation.

- **OmniSwitch AOS Release 6 Switch Management Guide**
  Includes procedures for readying an individual switch for integration into a network. Topics include the software directory architecture, software rollback protections, authenticated switch access, managing switch files, system configuration, using SNMP, and using web management software (WebView).

- **OmniSwitch AOS Release 6 Advanced Routing Configuration Guide**
  Includes network configuration procedures and descriptive information on all the software features and protocols included in the advanced routing software package. Chapters cover multicast routing (DVMRP and PIM), BGP, OSPF, and OSPFv3.

- **OmniSwitch Transceivers Guide**
  Includes SFP and XFP transceiver specifications and product compatibility information.

- **Technical Tips, Field Notices**
  Contracted customers can visit our customer service website at: service.esd.alcatel-lucent.com.

- **AOS Release 6.4.4.R01 Release Notes**
  Provides feature descriptions and open issues introduced in AOS Release 6.4.4.R01 that also apply to 6.4.4.R02.

System Requirements

Memory Requirements

OmniSwitch 6855-P14 Series Release 6.4.4.R02 requires 256 MB of SDRAM and 128 MB flash memory. This is the standard configuration shipped.

Configuration files and the compressed software images—including web management software (WebView) images—are stored in the flash memory. Use the 'show hardware info' command to determine your SDRAM and flash memory.

UBoot, FPGA, Miniboot, BootROM, Upgrade Requirements

There are no upgrade requirements, the OmniSwitch 6855-P14 will ship from the factory with the correct versions.

New Hardware Supported

OmniSwitch 6855-P14

The OS6855-P14 is a hardened Gigabit Ethernet L3 fixed configuration fanless chassis in a 1U form factor designed to operate in harsh environments and includes:

- 12 non-combo 10/100/1000 RJ-45 802.3af Power Over Ethernet ports
- 2 non-combo ports that support various industrial transceivers
- DIN rail mountable chassis and power supplies

Note: The OmniSwitch 6855-P14 does not meet the military shock and vibration test MIL-STD-810F.

PS-I185AC-P (SDR-240-55)

Power Over Ethernet power supply for the OmniSwitch 6855-P14. Can be installed as either the primary or backup PoE power supply and provides the following:

- 185 watts of PoE power
- Integrated DIN rail mounting bracket

Note: This power supply requires the use of power cords with a removed outer jacket (ROJ) for both the AC input and DC output connections. Refer to the OmniSwitch 6855 Hardware Users Guide or the installation instructions included in the ship kit.

OS6855-DIN-BKT

DIN rail mounting kit containing a DIN rail bracket that allows the PS-I40AC system power supply for the OS6855-P14 to be DIN rail mounted in an industrial environment.

OS6855-DIN-MNT

DIN rail mounting kit containing the necessary hardware to allow the OmniSwitch 6855-P14 chassis and system power tray to be DIN rail mounted in an industrial environment.

OS6855-MNT

Wall/Table mounting kit containing brackets to allow the 6855-P14/14/U10 chassis and system power supplies to be wall or table mounted in an industrial environment.

6.4.4.R02 New Software Features and Enhancements

AOS Release 6.4.4.R02 supports the same features as 6.4.4.R01 on other OmniSwitch 6855 platforms. Release 6.4.4.R02 is only supported on the OmniSwitch 6855-P14 and introduced enhanced Power Over Ethernet as described below.

Dynamic Power Over Ethernet

This feature allows the OS6855-P14 to automatically adjust the maximm amount of PoE power based on the ambient temperature. In order to avoid an over temperature condition the OS6855-P14 will automatically reduce or increase the maximum amount of PoE power based on the following ambient temperatures:

- At or below ~65C = 185W of PoE power

- Above ~65C = 66W of PoE power

The maximum number of PoE ports supported is determined by the combination of the power budget available and the total power being consumed by all ports. For example, an OS6855-P14 running with a 185W power budget could support 12 PoE ports if each port was drawing the maximum 15.4 watts (12*15.4W=184.8W).

Technical Support

Alcatel-Lucent technical support is committed to resolving our customer's technical issues in a timely manner. Customers with inquiries should contact us at:

Region	Phone Number
North America	800-995-2696
Latin America	877-919-9526
Europe	+33-38-855-6929
Asia Pacific	+65 6240 8484

Email: esd.support@alcatel-lucent.com

Web: service.esd.alcatel-lucent.com

Internet: Customers with Alcatel-Lucent service agreements may open cases 24 hours a day via Alcatel-Lucent 's support web page at: service.esd.alcatel-lucent.com.

Upon opening a case, customers will receive a case number and may review, update, or escalate support cases on-line. Please specify the severity level of the issue per the definitions below. For fastest resolution, please have telnet or dial-in access, hardware configuration—module type and revision by slot, software revision, and configuration file available for each switch.

Severity 1 Production network is down resulting in critical impact on business—no workaround available.

Severity 2 Segment or Ring is down or intermittent loss of connectivity across network.

Severity 3 Network performance is slow or impaired—no loss of connectivity or data.

Severity 4 Information or assistance on product feature, functionality, configuration, or installation.