Alcatel
Release Notes
Part # 031312 -10, Rev.B

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Read This Document

OS Software OS-6124 /OS-6148
Firmware Version 3.2GA
Release Notes



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Revision History

Release	Revision	Date	Description of Changes
3.2.01	B	5/07/03	Customer Release
3.2GA	B	4/15/03	GA release
3.205	B	1/16/03	Beta code
3.204	B	12/20/02	Beta code
3.202	B	10/12/02	Beta code
3.0	B	4/16/02	Release to Alcatel for validation

1 Introduction

These release notes cover the basic feature set supported, known limitations, bugs and known work-around for OS Version 3.2GA software. Please read this document in its entirety as it contains important operational aspects that may impact your network.

2 Technical Support Guidelines

Alcatel technical support is committed to resolving our customer's technical issues in a timely manner. Customers with 3.2GA inquiries should contact us at:

Phone: North America: 800-995-2696 International: 818-878-4507

Email: support@ind.alcatel.com

Internet: Customers with Alcatel service agreements may open cases 24 hours a day via Alcatel's support web page at http://www.ind.alcatel.com/support . 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 that you are contacting us about using the below definitions. For fastest resolution, please have available for each switch: telnet or dial-in access, hardware configuration – module type and revision by slot, software revision, and configuration file.

Severity 1 Production network is down resulting in critical impact on business operations - no work-around 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.

3 Release 3.2GA OmniStack 6124 and OmniStack 6148 Software Feature Set Supported

The following hardware and software features are supported subject to the restrictions in this note:

3.1 New Software Major Feature

The following matrix lists only new software features and which image is required to run the feature. Some of these features may have been previously released for OmniStack 6124 and OmniStack 6148. See the Alcatel website at: http://www.ind.alcatel.com/support/ for existing software features.

Feature
1. DSCP to CoS Mapping / DSCP Classification. This will require a new gig uplink module
2. 802.1x Port Security
3. AMAP (Alcatel Mapping Adjacency Protocol)

4 Unsupported Features in This Release (3.2GA)

4.1 Unsupported Features

Feature	Comments
1. GVRP	None

5 System Requirements, Start-Up Instructions, Upgrade Instructions and Commands for OmniStack 6124 and OmniStack 6148

This section includes System Requirements, Start-Up Instructions, Upgrade Instructions and Commands. For additional information on particular features, refer to section 6.

5.1 System Requirements

1. There are no system requirements for this version of software.

5.2 Start-Up Instructions

1. **OmniStack 6124 and OmniStack 6148 Passwords:**
   The following default users are defined: admin, guest.
   The default password for admin is "switch" and for guest is no password
2. The OmniStack 6124 and OmniStack 6148 has a default IP address of 192.168.10.1.
3. Use the console cable that was included with the OS-6124 or OS-6148 for initial configuration. A Web browser may also be used.

5.3 Upgrade Instructions

1. Please refer to the OS-6124 / OS-6148 manual for upgrade instructions.

6 Existing Software & Hardware Features

Existing Software & Hardware Features can be found on the Alcatel Web site at: http://www.ind.alcatel.com/support.

6.1 Troubleshooting

1. If the Web browser interface is not reflecting changes made to the unit, verify that caching is turned off on your Web browser.
2. Please contact customer support for troubleshooting assistance.

6.2 Helpful Hints and Other Notable Information

1. When configuring the OS-6124 or OS-6148 with a Web browser, the port you are connected to will be in VLAN 1. If you change that port to another VLAN, you will lose connectivity through the browser interface.
2. Remember to press the apply option when making changes before moving to another screen in either the Web browser or the user interface. Failure to do so will result in those changes being lost after a power cycle.
3. An entire multiple-unit stack will reboot when one of the units loses power, if one of the stacking modules fail, or if a stacking cable is connected or disconnected.
4. Management module should always be in UNIT #1 in the stack.
5. Correction: 'Closed-Loop Stack' statement: If a switch or stacking module fails, or if a stacking cable is disconnected, the Entire stack will reboot and will subsequently resume normal operation and management via the redundant stacking cable (Closed Loop). Also, any changes to the stack including powering down of a unit or the insertion of a unit will cause the stack to reboot.
6. With a redundant management module installed, reboot times will increase depending on traffic conditions and the number of switches within the stack. Reboot times may increase to as much as fifteen minutes.
7. In some instances, where auto-negotiation does not work properly, manual speed/duplex must be set on both end devices.

6.3 Backup management

1. When adding a backup management agent for the first time, allow 10 minutes for the agents to synchronize configuration data
2. Any change made in master agent will transfer into backup agent immediately. Manual synchronization operation is not required. 3.1 code will synchronize image and configuration starting with current code and onward.

7 Problem Resolution

7.1 Problems Resolved Since the Previous Version

PR#	Problem Description	Version Fixed
72029	6124/6148 failed to response to the U-12/U-24 when ping initiated after a cold boot on the OS7000/OS8000.	Set both ends of the port to auto/auto
71165	IS/IS frames not flooded when destination MAC is unknown on the 6124	3.2.01
69110	Need to change the "dot1x" to "802.1X" on the Web Agent.(to unify the system word.) .	3.2GA
69115	traffic stop after 1/2 hr. when 8 streams 100full of 1514frame and 1 stream 1gSX 60frame transmitted	
69707	It shows duplicated banner screens when telnet into the switch.(not all the time)	
69790	Link is up and data transfer is ok, but can not ping when 100FM-2 connected back to back.(V3.206)	
69781	Need to remove inactive menu "Multicast Address Registration Table" & "Static Multicast Address Table Configuration"	
69831	OS-61xx::All uplinks for Galnet 2+ chipset stop transmitting data when sending over 500MB except FX	
	We got an issue from Alcatel NMS group about v3.2 AMAP implementation problem. The problem is the "AmapHostsTable" is not correctly implemented. The AmapHostTable can only display one entry no matter how many AMAP entries in switch. Console/Telnet/WEB is OK. Seems the only problem is through SNMP. Below is the MIB walk value and AmapHostTable. The AmapPortConnectionTable has 6 entries but AmapHostTable show only one entries.	

8 Known Software Version 3.2GA Problems

8.1 Known Limitations of This Release

Report #	Problem	Workaround
68281	Slow performance on NFS UDP transfer between 100/Full SUN server to 10/full SUN workstation	Use NFS TCP or Enable Flow Control or server/client set to 100/F/H
62074	Mirroring a port with wirespeed 802.1P traffic causes poor throughput.	None.
62733	Under the Web Management Port Security Screen, the [Show] button and “Secure address count" is missing.	See User Interface.
	CPU performance is slower under heavy broadcast or multicast traffic, including some ping or SNMP packet time-outs and late dynamic unicast address table refreshes.	None.
	Maximum allowable switched frame size is greater than 1522 bytes.	None
	When using all 144 10/100 ports of a 3-stack module, alignment errors may appear on the Gigabit uplink.	None
	When a port is operating in the “STA BLOCKING” state, its RMON counters “Frame 64…1518 Bytes” still count the incoming packets.	None
	The Gigabit port cannot quite reach line speed (RX rate is 1,352,674 packet/sec) with 64 byte frames and occasionally with 128 byte frames. There is approximately a 10% loss.	None
	About 30% of high-priority packets will be dropped when traffic from a high-speed port is forwarded to a low-speed port. With an injection of 11% utilization traffic (10% with low priority and 1% high priority) into a Gigabit port being forwarded to a 100M TX port, not all high priority packets will be received from the TX port.	None
	When you remove a port from a trunk, the admin state of that port will be the same as the admin state of the trunk. That is, the removed port will not have the admin state of the original port configuration.	None

Report #	Problem	Workaround
	Internal MAC receive errors and port alignment errors are not supported by the 6124/6148 chip set.	None
	LED lights orange when switch speed setting is 10M & PC speed setting is 100M.	None
	The start point of expansion port(port number of module 1 and module 2) will be change from 25 to 49, including all display screens related to expansion port will follow this simple rule in user interface, SNMP and Web. This modification will impact on the exiting OS6124 with current version and want to upgrade to Version 3.1, this expansion number rule will be applied.	None
64345	V3.106 code is erasing the system configuration when using TFTP Download. We can only guarantee upgrading process (from v3.0GA to v3.106) don't erase current user's configuration. Downgrading process (Downgrade from v3.106 to v3.0GA) is not guaranteed due to software structure has already fit in new style in v3.106. Normally user will not do F/W downgrading.	None
	Upgrade from V3.106 (or previous v3.1xx patch) to V3.112 (or latter patch) may be erasing the system configuration. . We can only guarantee upgrading process (from v3.0GA to v3.112 or latter) This is because we fixed one bug about byte ordering in the configuration of v3.112.	None
	When processing image download by TFTP or WEB, the system configuration setting will be ignored	None
	LACP compatible test isn't function between OS-6148 and Omini5010 (Packet agent)	None
66015	Web-Base Management of OS-6124 and OS-6148 require Netscape Communicator 6.0 or higher	None
66266	Network traffic should balance on 100 half duplex mode and it is the limitation of the chip.	None
68077	OS-6124 and OS-6148 do not support LACP short timeout. Only support long timeout in actor side only.	None
	Low performance happen in certain NFS transfer through the OmniStack 6124/6148 switch. The client wants to perform NFS transfer through the Omnistack 6124/6148 switch. The NFS client is connected to the switch in 10 Half duplex and the server in 100 Full duplex mode. Flow control is disabled. Both are using version 3 of NFS use UDP.	Method1.Enable "FlowControl" in switch. Method2. Use NFS over TCP. By default, Sun Solaris NFS v3 use TCP protocol. Method3. Reduce rsize and wsize in NFS mount command. By default, NFS v3 use 32KB size.
69596	With Runtime V3.204, the system reports wrong expansion modules' port numbers	We will fix it in feature release
69825	Galnet2+ OS-6GSM-T-1 (1000BaseT, copper port Gigabit) modules: Stopped transferring data after running for about an hour or so under	

Report #	Problem	Workaround
71007	System may display incorrect information when different type uplink modules install to existing configuration.	Set to system factory default upon changing to new uplink modules.