

RELEASE NOTICE

Product Name: 7670 RSP

Release 7.1.0.B

Part Number: 3HE032820009TQZZA

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ISSUE HISTORY OF THIS RELEASE NOTICE

Edition number	Date of issue	Reason for issue
1	January 13, 2009	This is the first issue of this document.

APPROVALS

This release notice has been read and approved by the following:

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This document was signed off electronically. The sign-off form is filed by Document and Data Management.

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Contents

1	Introduction	4
2	Overview	4
2.1	Purpose of the release.....	4
2.2	New Features and DCRs	4
2.3	Features no longer supported	4
2.4	Restrictions, limitations, and notable information.....	4
	Restrictions	4
	Notable information	5
2.5	Restrictions, limitations, and notable information lifted from this release	5
2.6	Compatibility.....	5
3	Closed problems	6
3.1	Technical Alerts addressed by this release	6
3.2	Fixed problems.....	6
	Critical fixed problems	6
	Major fixed problems	6
	Minor fixed problems	6
4	Outstanding problems	7
	4.1.1 Major outstanding problems	7
	4.1.2 Minor outstanding problems	7
5	Installation and upgrade notes.....	8
6	Software generics	8
7	Release history.....	9
7.1	Hardened product loads.....	9
8	Obtaining technical support	9
9	Product documentation	9
9.1	Customer user documentation	9
9.2	Customer feedback	10
10	Glossary.....	11

1 Introduction

This release notice provides general information for Release 7.1.0.B of the 7670 RSP. Release 7.1.0.B is based on Release 7.1.0.A.

2 Overview

2.1 Purpose of the release

This release has been created to address problems outstanding in previous releases.

2.2 New Features and DCRs

Consult the 7.1 Release Notice (3HE032820000TQZZA) for a complete listing of the new features and DCRs delivered as part of that release. For a listing of features and DCRs addressed in earlier releases, see the Release Notice for that release. The Release Notice documents can be obtained from: <http://www.alcatel-lucent.com/>
No additional features or DCR functionality have been added by this release.

2.3 Features no longer supported

N/A

2.4 Restrictions, limitations, and notable information

In addition to the restrictions, limitations and notables as outlined in the 7.1 Release Notice, the following restrictions and notables also exist for the 7.1.0.B release. Upgrades from 7.1.0.B are restricted to only those releases that contain the above features and DCR functionality.

Restrictions

The following table lists restrictions that must be considered when using this release.

Restriction number	Restriction
R3	No support for ABR traffic class on ATM PW.
R4	SPVC connections are not supported inside a VPA.
R7	When removing a BFD session from a port interface, the MPLS signaling link for that interface should be bounced to avoid LSP issues on the inactive control card. For more information, please see PTS 570338.
R8	VCCV ping/traceroute command is not supported from Release 7.1.0.A to pre-Release 7.1.0.8.

Notable information

The following table lists notable information that must be considered when using this release.

Notable number	Notable information
N3	When creating/deleting VPA connections (ATM PW and ATM), it is important to perform actions in the following defined order such that the configurations take effect immediately. If adding a connection to a VPA or trunk group, create the VPA or trunk group first. If deleting a VPA or trunk group, then remove all connections before deleting the VPA or trunk group.
N4	BFD messages can not be transmitted or processed during a soft reset of the line card.

2.5 Restrictions, limitations, and notable information lifted from this release

None.

2.6 Compatibility

The 7.1.0.B release maintains the same compatibility as outlined in the 7.1 Release Notice.

3 Closed problems

This section lists problems that have been closed in this release. For information about all closed problems, contact your Alcatel-Lucent technical support representative. For a listing of closed problems addressed in earlier releases, see the Release Notice for that release.

3.1 Technical Alerts addressed by this release

There were no Technical Alerts that were addressed in Release 7.1.0.B. A complete list of all Technical Alerts is accessible from: <http://www.alcatel-lucent.com/>

3.2 Fixed problems

Critical fixed problems

No critical problems have been addressed in Release 7.1.0.B.

Major fixed problems

PTS #	Regional support tracking #	Description
573164	1-2539084	Incorrect Opaque-LSA is generated when BFD is configured and the OSPF link is brought down.

Minor fixed problems

No minor problems have been addressed in Release 7.1.0.B.

4 Outstanding problems

In addition to the outstanding problems known as of 7.1, as outlined in the 7.1 Release Notice (3HE032820000TQZZA), the following outstanding problems exist in the 7.1.0.B release.

4.1.1 Major outstanding problems

PTS #	Regional support tracking #	Description
570338	None	<p>When a BFD session is removed, the inactive control card can experience issues with LSP tunnels on that port interface. If a subsequent control activity switch occurs, those LSP tunnels may enter the down state.</p> <p>When a BFD session is removed, bounce the MPLS signaling link on that physical port.</p>
572367	1-2527350	<p>The PATH message for Primary LSP is not handled correctly after disrupting the Bypass tunnel, in an attempt to revert the LSP back to the original Primary path.</p> <p>To revert Primary LSP to the original strict hop path (away from Bypass Tunnel), perform shutdown and no shutdown on the 7750 SR port facing the head-end 7670 RSP.</p>

4.1.2 Minor outstanding problems

PTS #	Regional support tracking #	Description
564476	1-2346627	<p>When a line card is hard reset, the IO cards reset as well, but the IOC "card hard reset" alarm is sometimes missing.</p> <p>There is no workaround.</p>
568846	None	<p>After 450 days of continuous control card operation (card up time), the node will raise a "Card Maintenance Required" alarm informing the customer that a control card activity switch is necessary. If a control card activity switch is not performed within 24 days of this event, and the system is configured to demerit the maintenance required event, the node will automatically perform a control card activity switch.</p> <p>There is no workaround.</p>
572458	1-2526087	<p>LSP ID is not displayed on the terminated node.</p> <p>There is no workaround.</p>
573241	1-2538480	<p>BFD Poll bit is not set when a soft reset is executed on the GigE card.</p> <p>There is no workaround.</p>

5 Installation and upgrade notes

For a complete listing of installation and upgrade notes applicable to 7.1.0.B, please see the 7.1 Release Notice (3HE032820000TQZZA).

6 Software generics

The 7670 RSP Release 7.1.0.B consists of the following new software generics.

Card type	Minimum boot generic	Current boot generic	Bundle generic	Software generic	89-level generic	Checksum ¹
Control Cards						
CC2G CONTROL CARD	A82103-H0-03	A82105-H0-03	L82117-H1-0B	A82117-H1-0B	89-9505-1-71-0B-07	3947211981
Line cards						
GIGE LINE PROCESSING CARD	A83602-H2-01	A83606-H3-10	L83617-H1-0B	A83617-H1-0B	89-9089-1-71-0B-03	2983106168
MULTI-RATE 16 ATM LINE CARD	A83402-H2-01	A83406-H3-10	L83417-H1-0B	A83417-H1-0B	89-7572-1-71-0B-02	3608024999
MR16 POS LINE CARD	A83602-H2-01	A83606-H3-10 ²	L83917-H1-0B	A83917-H1-0B	89-8026-1-71-0B-01	1530260331
MR48 LINE CARD	A83B02-H2-01	A83B06-H3-10	L83B17-H1-0B	A83B17-H1-0B	89-9132-1-71-0B-10	2370245315
EDGE SERVICES CARD	A83E06-H2-00	A83E06-H3-10	L83E17-H1-0B	A83E17-H1-0B	89-9787-1-71-0B-07	3165409144
MULTI-RATE8 SONET/SDH ATM/IP LINE CARD	A83102-H2-01	A83106-H3-10	L83117-H1-0B	A83117-H1-0B	89-6704-1-71-0B-02	945672612
OC48C/STM16C NNI LINE CARD	A83202-H2-01	A83206-H3-10	L83217-H1-0B	A83217-H1-0B	89-7041-1-71-0B-01	1005305612
Switch cards						
SWITCH CARD (variant 01)	N/A	N/A	N/A	AQIDRV11xxx ³	N/A	N/A
SWITCH CARD (variant 02)	ASC101-H0-01	ASC101-H0-03	LSC111-H0-02	ASC111-H0-02	89-4590-1-10-01-00	1584757478
Multi-shelf infrastructure cards						
QUAD/DUAL FABRIC INTERFACE CARD(QFIC/DFIC)	A82802-B0-05	A82802-B2-05	L82817-H1-0B	A82817-H1-0B	N/A	N/A
INTER-SHELF	A82402-H2-01	A82406-H3-10	L82417-H1-0B	A82417-H1-0B	89-7324-1-71-0B-01	514793900

¹ The CRC (checksum *) was calculated using the UNIX cksum command.

² The Multi-Rate 16 POS line card uses the Gigabit Ethernet boot.

³ The last three digits of the switch card software generic are irrelevant. Changes to these digits do not represent software changes.

Card type	Minimum boot generic	Current boot generic	Bundle generic	Software generic	89-level generic	Checksum ¹
CONNECT (ICON) CARD						
PERIPHERAL SHELF CONTROLLER (PSC)	A82702-B0-0T	A82705-H0-01	L82717-H1-0B	A82717-H1-0B	89-7732-1-71-0B-00	4021836633
SW.SHELF CTRLR CARD (SSC)	A82302-B0-15	A82306-H3-10	L82317-H1-0B	A82317-H1-0B	89-7582-1-71-0B-01	1665244725

7 Release history

7.1 Hardened product loads

Release	Date
7.1	2007.08.08
7.1.0.1	2007.09.07
7.1.0.2	2007.10.19
7.1.0.5	2007.12.15
7.1.0.6	2008.04.28
7.1.0.7	2008.12.04
7.1.0.8	2009.05.06
7.1.0.9	2009.07.30
7.1.0.A	2009.11.16
7.1.0.B	2010.01.13

8 Obtaining technical support

Technical Support Engineers are available to assist you 24 hours a day, 7 days a week.

For the list of regional contact telephone and fax numbers, visit:

<http://www.alcatel-lucent.com/>

9 Product documentation

9.1 Customer user documentation

The OnLine Customer Support (OLCS) service gives customers online access to the latest Alcatel-Lucent customer user documentation. For a wide range of documentation, including product manuals and documentation updates, visit:

<http://www.alcatel-lucent.com/>

9.2 Customer feedback

We value your feedback. Please direct questions or comments about Alcatel-Lucent documentation to: olcshelp@alcatel-lucent.com

10 Glossary

Term	Expansion
2P	2-port
4P	4-port
8P	8-port
ABR	available bit rate
ACL	access control list
AIS	alarm indication signal
APN	Alcatel-Lucent part number
APS	automatic protection switching
ARP	address resolution protocol
ASAM	advanced services access manager
ATM	asynchronous transfer mode
BFD	bidirectional forwarding detection
BW	bandwidth
CAC	connection admission control
CIC	control interconnect card
CLI	command line interface
CoS	class of service
CPSS	control packet switching system
CRC	cyclic redundancy check
DCR	design change request
D-DR	destination designated router
DFIC	dual fabric interface card
DR	designated router
DS3	digital signal level 3
DSCP	differentiated services code point
ELECT	electrical card
FAC	facilities card
FD	feature description
GR	graceful restart
I/O	input/output
ICON	intershelf connect card
IGMP	Internet group management protocol
IP	Internet protocol
IPD	IP division
IR	intermediate range
LAN	local area network
LANE	LAN emulation

Term	Expansion
LCR	line card redundant
LDP	label distribution protocol
LR	long range
LH	long haul
LSA	link state advertisement
LSDB	link state database
LSP	label switched path
LX	long range
MIB	management information base
MPLS	multiprotocol label switching
MSP	7470 Multiservice Platform
MTU	maximum transmission unit
NMS	network management system
NNI	network node interface
NTP	network time protocol
NUP	network upgrade procedure
OAM	operations, administration, maintenance
OC	optical carrier
OIF	outgoing interface
OOS	out of service
OSPF	open shortest path first
P2MP	point to multipoint
P2P	point-to-point
PCN	product change notice
PE	provider edge
PEP	persistent endpoint
PHP	penultimate hop popping
PIC	peripheral interconnection card
PIM	protocol independent multicast
PIM-SM	PIM sparse mode
PNNI	private network node interface
POS	packet over SONET
PSB	protection switching byte
PSC	peripheral shelf controller
PTS	problem tracking system
PW	pseudo-wire
QFIC	quad fabric interface card
R&D	research and design
RAM	random access memory
RD	release description

Term	Expansion
RIP	routing information protocol
RN	release notice
ROM	read-only memory
RP	rendez-vous point
RSP	7670 Routing Switch Platform
RSVP	resource reservation protocol
SAC	switch access card
SCH	switching scheduler card
SDH	synchronous digital hierarchy
SDR	source designated router
SEEP	serial electrically erasable programmable read-only memory
SER	soft error recovery
S-LSP	signaled label-switched path
SMX	switch matrix
SNMP	simple network management protocol
SONET	synchronous optical network
SPVC	soft permanent virtual circuit
SR	short range
SR	7750 Service Router
SRRP	single router redundancy protocol
SSC	switching shelf controller
STM	synchronous transfer mode
SX	short range
TCA	threshold crossing alarm
TCP	transmission control protocol
TLDP	targeted label distribution protocol
TTL	time to live
VC	virtual circuit
VCC	virtual circuit channel
VCCV	virtual circuit connectivity verification
VLAN	virtual local area network
VP	virtual path
VPA	virtual path aggregation
VPI	virtual path identifier
VPN	virtual private network
XLR	extra-long range