

RELEASE NOTICE



5620 SAM

7.0 R7

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# Contents

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Contents .....	2
<b>1 Introduction .....</b>	<b>5</b>
<b>2 Overview.....</b>	<b>5</b>
2.1 Purpose .....	5
2.2 New features and DCRs.....	5
2.3 Compatible network element software loads.....	22
2.4 Features and network element releases no longer supported .....	22
Discontinued features support .....	22
Incompatible network element software releases .....	22
2.5 Restrictions and notable information .....	23
Restrictions.....	23
Notable Information .....	24
<b>3 Closed Problems.....</b>	<b>29</b>
3.1 Product Alerts addressed by this release.....	29
3.2 5620 SAM fixed problems.....	30
Release 7.0 R7 critical fixed problems.....	30
Release 7.0 R7 major fixed problems .....	30
Release 7.0 R7 minor fixed problems .....	31
Release 7.0 R6 critical fixed problems.....	31
Release 7.0 R6 major fixed problems .....	32
Release 7.0 R6 minor fixed problems .....	32
Release 7.0 R5 critical fixed problems.....	33
Release 7.0 R5 major fixed problems .....	33
Release 7.0 R5 minor fixed problems .....	33
Release 7.0 R4 critical fixed problems.....	34

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Release 7.0 R4 major fixed problems .....	34
Release 7.0 R4 minor fixed problems .....	35
Release 7.0 R3 critical fixed problems.....	36
Release 7.0 R3 major fixed problems .....	37
Release 7.0 R3 minor fixed problems .....	37
Release 7.0 R2 critical fixed problems.....	38
Release 7.0 R2 major fixed problems .....	39
Release 7.0 R2 minor fixed problems .....	40
Release 7.0 R1 critical fixed problems.....	41
Release 7.0 R1 major fixed problems .....	41
Release 7.0 R1 minor fixed problems .....	42
<b>4 Outstanding Problems.....</b>	<b>43</b>
4.1 5620 SAM outstanding problems .....	43
Release 7.0 critical outstanding problems .....	43
Release 7.0 major outstanding problems.....	44
<b>5 Installation and upgrade notes .....</b>	<b>46</b>
5.1 Installation and upgrade notes.....	46
5.2 5620 SAM Solaris installation and upgrade notes.....	47
5.3 5620 SAM Windows installation notes .....	47
<b>6 Deprecation notices .....</b>	<b>48</b>
<b>7 Release history .....</b>	<b>49</b>
7.1 Product loads .....	49
7.2 RN release history.....	49
<b>8 Obtaining technical support .....</b>	<b>49</b>
<b>9 Product documentation.....</b>	<b>50</b>
9.1 Customer user documentation .....	50

9.2 Customer feedback ..... 50

10 Glossary ..... 51

# 1 Introduction

This release notice provides general information for the 5620 SAM Release 7.0 . For information about the 5650 CPAM Release 3.0, see the *5650 CPAM Release Notice*.

## 2 Overview

### 2.1 Purpose

The 5620 SAM Release 7.0 software has been released to provide support for new features, to implement DCRs, and to fix problems.

### 2.2 New features and DCRs

The table in this section lists the following 5620 SAM content development:

- DCR functionality for 5620 SAM 7.0 major and maintenance releases
- Feature functionality for 5620 SAM 7.0 maintenance releases

See the *5620 SAM Release Description* for information about the features added to the 5620 SAM 7.0 major release. The document also contains information on planned new features that may not be available for 5620 SAM Release 7.0. The document can be obtained at <http://www.alcatel-lucent.com/myaccess>. If you are a new user and require access to this service, please contact your Alcatel-Lucent sales representative.

DCR number (duplicate)	Description
5620 SAM Release 7.0 R7	
569569	Monitor CAM devices for failures.
582944	Flow setup rate and flow count policer with cut-through/no-flow-allocate behavior instead of discard/no-flow-allocate behavior.
5620 SAM Release 7.0 R6	
545238	The EmsServer.log now identifies the OSS debug log file names associated with OSS requests and responses.
566575	Enhancements to the installation prompts of the 5650 CPAM and 5620 SAM.
568287	In 7xx0 7.0.R5, support has been implemented for long description fields (160 characters) on SONET/SDH paths, TDM DS3, E3 and DS1-based DS0 Channel Groups.
Support for 7210 SAS-M Release 1.1 R4	The 7210 SAS-M supports the 7210 Network QoS policy on network interfaces.
5620 SAM Release 7.0 R5	

DCR number (duplicate)	Description
491518	The 5620 SAM server handles momentary TCP disconnects and reconnects between the active and standby servers without forcing an activity switch.
559077	The 5620 SAM can detect the availability of a TACACS+ server using TCP, only.
561352	The default DHCP configuration using the 5620 SAM is now the same as the default DHCP config using the CLI.
538134	The property "Secondary Fast Retry Timer" was added to the MPLS Site General tab in the 'Configuration' group.
539447	The attribute force-vlan-vc-forwarding is added to pseudowire templates.
543922	Null-key authentication is supported on keychains.
550043	The vRtrLdplfOperDownReason from vRtrLdplfStateChange trap is not used to update the LDP interface operDownReasonCode attribute.
555665	The 5620 SAM supports the selection of a 7705 as the tunnel termination site when creating SDPs.
556716	The attribute "Use BroadCast Address" is displayed on the Ethernet tab on the port when downWhenLooped is set to true.
558458	Distribution of an application filter expression object of type "SIP-UA" or "SIP-URI" from the global Application Assurance Group policy fails if the policy has local definitions on both pre-7.0 R4 and 7.0 R4 and later NEs. Distribution of any other attribute is blocked on the pre-7.0 R4 NEs because of server validation. This problem does not occur if all the local definitions are pre-7.0 R4 or if they are all 7.0 R4 and later.
558647	To reconfigure Oracle to use the new 5670 RAM, the script SGA_reconfig.sh is available to run after physical memory is upgraded on the 5620 SAM database.
560406	Support for hardware backpressure only mode of operation on ATM MDA for 7750 SR and 7710 SR 7.0 R5 and later has been added.
Support for 7705 SAR, Release 2.1	The 5620 SAM supports the configuration of MC MLPPP on the 7705 SAR on DS1/E1 channelized ASAP daughter cards.
	<p>The 5620 SAM supports the following OAM functionality on the 7705 SAR:</p> <ul style="list-style-type: none"> <li>• Support for 802.1ag CFM, identical to the functionality supported for the 7750 SR, Release 6.0, except for the following: <ul style="list-style-type: none"> <li>○ The 7705 SAR also supports the options 10 ms and 100 ms for the CCM Interval parameter.</li> <li>○ The Explicit option for the MHF-Creation parameter is not configurable.</li> <li>○ The Direction parameter cannot be set to Up.</li> </ul> </li> <li>• Support for 802.3ah on Access ports (7705 SAR, Release 2.1 R2 or later) and disabling EFM OAM Tunneling on Access mode ports (7705 SAR, Release 2.1 R2 or later).</li> <li>• Support for the configuration of Forwarding Profile and Forwarding Class parameters on ICMP ping service assurance tests</li> </ul>

DCR number (duplicate)	Description
	<p>The 5620 SAM supports the following daughter cards on the 7705 SAR:</p> <ul style="list-style-type: none"> <li>• 2 x Channelized OC3/STM1 ASAP SFP</li> <li>• 12 x Serial Data</li> </ul> <p>You can configure no more than two 2-port OC3/STM1 ASAP SFP daughter cards on a 7705 SAR. Each OC3/STM1 port supports channelization down to the DS0 channel group. You cannot configure channel groups that you create on this daughter card as management IES SAPS. You can configure up to 32 IMA bundles on the 2 x Channelized OC3/STM1 ASAP SFP daughter card. On the 12 x Serial Data daughter card, you must create a channel under each port, and a channel group under each channel. The following configuration restrictions and limitations apply to ports and channels on this daughter card:</p> <ul style="list-style-type: none"> <li>• maximum of one channel on each port</li> <li>• maximum of one channel group on each channel</li> <li>• channel groups must be in access mode and with CEM encapsulation type</li> <li>• channel group MTU is not configurable</li> </ul>
	<p>The 7705 SAR supports Network mode with PPP Auto encapsulation for channels on the 4-port OC3/STM1 ASAP daughter card.</p>
	<p>The 5620 SAM supports the following routing functionality on the 7705 SAR:</p> <ul style="list-style-type: none"> <li>• ISIS</li> <li>• MPLS SRLG</li> <li>• SGT QoS.Dot1p marking</li> <li>• SGT QoS.DSCP mapping</li> </ul> <p>The IS-IS functionality is identical to the support on the 7750 SR, Release 6.0. However, the 7705 SAR does not support the following:</p> <ul style="list-style-type: none"> <li>• Graceful Restart</li> <li>• Graceful Restart Helper</li> <li>• Unicast Import</li> <li>• Multicast Import</li> <li>• Multi-topology</li> <li>• IPv6 configuration</li> </ul>
	<p>The 5620 SAM supports the following policy functionality on the 7705 SAR:</p> <ul style="list-style-type: none"> <li>• Routing policy enhancements: You can use the 5620 SAM to configure existing global routing policy parameters and values associated with IS-IS on the 7705 SAR local routing policy.</li> <li>• MC MLPPP Access egress policy: You can use the 5620 SAM access egress policy to configure MC MLPPP access egress policies.</li> </ul>
	<p>The 5620 SAM supports the following service functionality on the 7705 SAR:</p> <ul style="list-style-type: none"> <li>• Epipe LLF</li> <li>• Epipe SAP-to-SAP</li> </ul> <p>In addition, the 5620 SAM supports the binding of ingress ACL IP Filters to the L2 Access Interfaces on an Epipe or Ipipe on the 7705 SAR.</p>

DCR number (duplicate)	Description
	<p>The 7705 SAR supports the configuration of timed loopback for Ethernet ports.</p> <p>You can use the 5620 SAM to configure the 7705 SAR as a client for IEEE 1588 PTP. The 7705 SAR supports the configuration of a PTP application within a DSCP application marking on routing instances.</p> <p>The 7705 SAR supports the configuration of the Radius Authorization Algorithm parameter for NE RADIUS authentication policies.</p>
Auto-provisioning enhancements	<p>Enhancements include:</p> <ul style="list-style-type: none"> <li>• A source configuration file can be imported from the 7705 SAR.</li> <li>• A backup can be performed from the Auto-Config Source Node Profile.</li> <li>• The supported VLL services include lpipes.</li> <li>• The ISIS routing protocol is supported</li> </ul>
7210 SAS-E enhancements	<p>The 7210 SAS-E, Release 1.0 R5 or later, supports egress port rate limiting and frame-based accounting.</p>

DCR number (duplicate)	Description
7210 SAS-M Release 1.1 R3 support	<p>The 5620 SAM supports the following features on the 7210 SAS-M, Release 1.1 R3 or later:</p> <ul style="list-style-type: none"> <li>• 24 x 10/100/1000 Ethernet SFP ports</li> <li>• in-band management</li> <li>• egress port rate limiting</li> <li>• frame-based accounting</li> <li>• services <ul style="list-style-type: none"> <li>○ VLL Epipe</li> <li>○ VPLS (ELAN)</li> <li>○ Spoke SDP binding</li> </ul> </li> <li>• STM OAM: CRM, EFM, CPE Ping, LSP Ping, MAC Ping, SDP/Tunnel Ping, MTU Ping, VCCV Ping, ICMP Ping, SVC Ping, DNS, LSP Trace, MAC Trace, MAC Populate, MAC Purge, and ICMP Trace</li> <li>• QoS policies: <ul style="list-style-type: none"> <li>○ 7210 Access Ingress</li> <li>○ 7210 Access Egress</li> <li>○ 7210 Network Queue</li> <li>○ 7210 Slope</li> <li>○ 7210 Port Scheduler</li> </ul> </li> <li>• discovery management</li> <li>• configuration backup and restore</li> <li>• policy audit</li> <li>• remote CLI</li> <li>• security management</li> <li>• software upgrade</li> <li>• span of control</li> <li>• statistics collection and graphing</li> <li>• alarm management</li> <li>• routing <ul style="list-style-type: none"> <li>○ static routes</li> <li>○ ISIS</li> <li>○ OSPF</li> </ul> </li> <li>• IP/MPLS <ul style="list-style-type: none"> <li>○ TLDP</li> <li>○ RSVP</li> </ul> </li> </ul>
Topology map enhancements	<p>The map layout has been enhanced to include:</p> <ul style="list-style-type: none"> <li>• Circular and Smart Organic layouts</li> <li>• Links Shown button</li> <li>• Select Attached menu item</li> </ul>

DCR number (duplicate)	Description
Generic NE alarm enhancements	Generic NE alarm mappings can include one or more transform functions that dynamically define the alarm name, probable cause, and severity properties using SNMP trap varbind values.
ISA multi-service daughter card support	<p>You can assign one of the following MDAs to an ISA-MS equipped slot:</p> <ul style="list-style-type: none"> <li>• ISA-IPsec</li> <li>• ISA-Video</li> <li>• ISA-AA</li> </ul> <p>After you assign the MDA to the slot, the MDA can be used for the MDA-specific application. Some configuration changes require that you reboot the IOM; for example, you must reboot the IOM when you switch from ISA-AA to ISA-Video.</p>
Support for the 9500 MPR	<p>The 5620 SAM supports the following functionality for ETSI 1.2.0/1.2.1/1.2.2 and ANSI 2.0 versions of the 9500 MPR:</p> <ul style="list-style-type: none"> <li>• admission control on ETSI NEs (1.2.2)</li> <li>• 32 x DS1 card, ANSI R 2.0</li> <li>• 4+4 x Ethernet card (ANSI)</li> <li>• port protection</li> <li>• MSS-8 chassis</li> <li>• Core -E module</li> <li>• fault management</li> <li>• performance management</li> </ul> <p>ANSI 2.0 NEs do not support service provisioning, including VLAN Groups and Paths.</p>
<b>5620 SAM Release 7.0 R4</b>	
499132	Drag and drop functionality is supported between maps of the same type.
502822 (519916)	Topology Groups in the map navigation tree display contained item counts after the name in () for counts greater than 0.
504871	Requirement for a FIB resynchronization button for the service forwarding control FIB entries window.
505185	File management is available for files created through the 5620 SAM-O findToFile method.
509051	Result filter is supported for 5620 SAM-O methods returning structs; for example, fm.FaultManager.findFaults returns the struct fm.AlarmInfo.
517953	Links from multiple objects to the same group are represented by a single connector.
518097	Display of property information for multiple objects causes performance issue.
519916 (502822)	Topology Groups in the map navigation tree display contained item counts after the name in () for counts greater than 0.
521886	Requirement for an OSSSI method to move nodes into topology groups.

DCR number (duplicate)	Description
522077	Requirement to display message to user.
522200	A "sleep" method is now available for script management.
524262	Requirement to select Topology Group for discovered Network Elements in the Discovery Rule configuration form.
528719	Requirement to display remote IP address in the security message.
531193	The Format Policy can be used to automatically build names and displayed names for LSPs and Service Tunnels. The Format Policy name generator can now use the Destination Network Element of an LSP or Service Tunnel when building the description or name. The Format Policy has to be specified in the template of the LSP or Service Tunnel.
534082	Search on the topology map can find items based on text fields in user preferences.
537717	The default SAP on SR 6.1 R4 and above cannot be selected for RNCV on MC-ring node for 5620 SAM Release 7.0 R3 and earlier.
539445	Upon receiving the TIMETRA-VRTR-MIB.tmnxVRtrFibOccupancyThreshold trap with vRtrFibStatHighUtilization set to 'true', the FIBHighOccupancy alarm is raised to inform the operator that the FIB on an IOM card has transitioned from experiencing persistent normal to high occupancy. Upon receiving the TIMETRA-VRTR-MIB.tmnxVRtrFibOccupancyThreshold trap with vRtrFibStatHighUtilization set to 'false', the FIBHighOccupancy alarm is cleared.
540830	Requirement to align the GUI configuration options with the CLI equivalent for the following options on the Bridged Instance Properties form: <ul style="list-style-type: none"> <li>• Bridged Disposition</li> <li>• Routed Disposition</li> <li>• IGMP Disposition</li> </ul>
543457	Search function used for logs only supports saving a maximum of 50K entries to a file.
545716	The name of GNE devices are not displayed in Topology map.
546173	Requirement to configure the UDP relay service and destination in a single step.
546196	New properties available for MPLS sites: <ul style="list-style-type: none"> <li>• p2mpResignalTimer</li> <li>• p2mpNextResignal</li> </ul>
546731 (548034)	Requirement for the bundle entry in the Equipment tree to show the bundle type.
547111	Requirement support for the user to add a range of VLAN IDs when configuring UDP relay destinations.
547888	New maintenance domain format "none", which requires no name. This functionality is specifically for Y1731 domain types.

DCR number (duplicate)	Description
548030	Requirement for the Equipment tree to display the association for an APS group and port.
548034 (546731)	Requirement for the bundle entry in the Equipment tree to show the bundle type.
548482	5620 SAM does not display 802.1ag Maintenance domain Intermediate Points (MIPs).
550046	When using a VPLS connected to IES (group-interface), the VPLS SAP information is lost as the grp-interface is only seeing the CCID.
552602	Added support to enable CCAG Port selection for Service Access Points on VPRN/IES services.
553382	LDP minimum Hello/Keepalive timeout changed to 3 seconds.
553984	Require support for clearing MSAPs. MSAPs can be cleared using the residential subscriber manager. (The result can be accessed from the Clear Status tab of the cleared MSAP.) Also, all MSAPs associated with an MSAP policy can be cleared using the Local Definitions tab of a global MSAP policy. (The result can be accessed from the Clear Status tab of the local MSAP policy.)
554312	Range of minimum Route Advertisement on BGP site, group, and peer changed to 1 to 255 for SR 77x0 6.1 R8 (and later) and 7.0 R3 (and later).
555443	Object identification can be saved to the system clipboard. The object identifier can be pasted to external applications and can be used to navigate to object configuration forms.
555567	When the user creates a CFM Test, a Maintenance Domain is required. An option was added to let the user create a Maintenance Domain directly from the CFM Test form when the Maintenance Domain pointer selection is issued. (In previous releases, the user must create the Maintenance Domain from the policy.) The only change is the create option in the Maintenance Domain selection window from the CFM Test form.
556715	Requirement to add Handling for Dying Gasp (dot3OamNonThresholdEvent) trap. An alarm is raised when a Dying Gasp Signal is received from a remote port to indicate that the port has lost power.
558486	Requirement to display all Maintenance Association MEPs from the CFM test display window.
558659	Requirement to enable hashing on IP header at an LSR for the purpose of spraying labeled IP packets over: <ul style="list-style-type: none"> <li>• multiple equal cost paths in ECMP in an LDP LSP, and/or</li> <li>• multiple links of a LAG group in all types of LSPs</li> </ul> The hash on the label and IPv4 header can be configured at the NE level. The default is 'Label Only'.
558670	Requirement for a global CCTest to simultaneously resynchronize all remote MEP DB objects.
559276	Requirement to support configuration of the trap thresholds for Ethernet Tests and One Way Delay Tests.

DCR number (duplicate)	Description
559755	Added paging/filtering support to Local Definitions tab on policy configuration forms.
559866	Revisions required for queue selection on the access ingress and access egress policies.
559986	Added paging/filtering support to the following tabs on policy configuration forms: Network Interfaces, Service Access Points, L2 Access Interface, and L3 Access Interface.
561733	Requirement to add support for the SPT switch-over threshold on a PIM site for a VPRN.
561917	WRED Queue Box should be directly under checkbox.
563961	Requirement to add configuration option for path change trap generation on Trace tests.
New 7750 SR-c12 chassis	<p>The 7750 SR-c12, which supports up to 12 CMAs or 6 MDAs, has a forwarding capacity of 40 Gb/s, native uplink support, and a faster control plane processor than the 7750 SR.</p> <p>The 7750 SR-c12 has the features that are supported on the 5620 SAM for the 7750 SR, Release 7.0, except for the following:</p> <ul style="list-style-type: none"> <li>• ISA-AA, ISA-IPSEC, and ISA-Video</li> <li>• IMM</li> <li>• BGP-AD</li> <li>• limited support of DOS filtering and MAC filtering to the CPU</li> </ul> <p>The CMAs and MDAs supported on the 7710 SR-c12 are supported on the 7750 SR-c12.</p> <p>You can configure the following card types in the 7750 SR-c12 card slots:</p> <ul style="list-style-type: none"> <li>• 7750-SRc12 IOM-XP</li> <li>• 7750-SRc12 CFM-XP</li> </ul>
New card support	The 5620 SAM supports the IMM 5 x 10GE Extended Performance XFP MDA on the 7750 SR-7 and 7750 SR-12, Release 7.0 or later.
	<p>The 5620 SAM supports the following cards on the 7750 SR-c12</p> <ul style="list-style-type: none"> <li>• 20 x 10/100/1000 Ethernet SFP MDA</li> <li>• 10 x 1Gig Extended Performance SFP MDA</li> <li>• 20 x 1Gig Extended Performance SFP MDA</li> </ul>
7710 SR daughter card support	The 5620 SAM supports the 1 x Gig Ethernet XP SFP CMA on the 7710 SR.
Multi-chassis redundancy enhancements	The MC peer, MC synchronization, MC ring, and MC LAG functions are streamlined for ease of configuration, status viewing and operation.
Card migration utility	The 5620 SAM includes a utility that you can use to transfer the configured objects from one or more IOM 1 and IOM 2 cards on multiple NEs to IOM 3 cards.
ISA-Video	The 5620 SAM supports the ISA-Video MDA on the 7450 ESS-6, 7450 ESS-7, 7450 ESS-12, 7750 SR-7, or 7750 SR-12, Release 7.0 or later.

DCR number (duplicate)	Description
ISA-AA MDA support	The 5620 SAM supports the ISA-AA MDA on IOM 3 cards.
Hard reset prevention on 7710 SR	A hard reset of MDAs, CMAs, and MCMs of the 7710 SR, Release 7.0 or later, is no longer required, after an ISSU upgrade.
Support LDP over RSVP on IS-IS and OSPF	The 5620 SAM support of LDP over RSVP for MPLS tunnels is extended to include IS-IS and OSPF on the 7750 SR, 7710 SR, and 7450 ESS.
MAC subnetting support	The 5620 SAM supports MAC subnetting on the 7750 SR, 7710 SR, and 7450 ESS. This solution for MAC scalability involves MAC learning and MAC switching.
SLA-based egress QoS marking	Egress QoS marking can be derived from the egress QoS policy associated with a SAP or from the egress QoS policy associated with the SLA profile.
Queue specific WRED support	WRED can be enabled on a per queue basis in the egress QoS policy and in the egress queue group template policy for IOM 3 and IMM cards.
Queue groups	Queue groups are objects created on access or network Ethernet port that allow SAP or IP interface forwarding classes to be redirected from standard queue mapping to a shared queue.
OAM test ID ranges	You can configure a test ID for the OAM tests in multiple server environments. A test ID allows you to identify the source server that initiated the OAM test.
New premium (HSMDA) daughter card support	<p>The 5620 SAM supports the following premium HSMDAs on the 7750 SR-7, 7750 SR-12, 7450 ESS-6, 7450 ESS-7, and 7450 ESS-12, Release 7.0 R3, or later.</p> <ul style="list-style-type: none"> <li>HSMDA 10 Gigabit XFP with 1-port configurations, supported on IOM1, IOM 2 and IOM 3 card slots.</li> <li>HSMDA Gigabit Ethernet SFP with 10 ports, supported on IOM 3 card slots.</li> </ul> <p>For HSMDAs supported on IOM 3 card slots, in addition to HSMDA pool policies, ingress named buffer pool policy is supported. Network ingress, network egress, access ingress, and access egress QoS pool policies, except for MC path management, are configurable.</p>
New daughter card	The 5620 SAM supports the 10 Gigabit Ethernet MDA with 1-port DWDM tunable optics configurations on the 7750 SR and 7450 ESS.
Egress Secondary Shapers configurable on LAGs of HSMDA ports	Egress secondary shapers can be added to port members of a LAG configured on an HSMDA on the 7750 SR-7, 7750 SR-12, 7450 ESS-6, 7450 ESS-7, and 7450 ESS-12, Release 7.0 R3, and later.
Bulk change support	Modify a large number of objects by setting filter and attribute definitions. Display progress of changes and report success and failures.
Generic NE alarm support	You can configure the 5620 SAM to raise specific alarms in response to specific generic NE SNMP traps.
Generic NE statistics support	You can use the 5620 SAM to collect statistics from the standard system and interface MIBs on generic NEs. A 5620 SAM deployment that includes the 5650 CPAM allows for the collection of statistics from a number of standard generic NE routing MIBs as well.

DCR number (duplicate)	Description
OmniSwitch support enhancements	<p>The 5620 SAM supports the following features for the OmniSwitch:</p> <ul style="list-style-type: none"> <li>• AOS 6.3.4</li> <li>• IP multicast VLANs that do not have common access ports can share the same multicast addresses.</li> <li>• For AOS 6.3.4 or later, the maximum number of dynamically learned IGMP group addresses can be limited globally, per port, and per multicast VLAN. You can also specify the action to be taken when the limit is exceeded.</li> </ul>
LSP on-demand resynchronization support	<p>On the 7750 SR and 7710 SR, LSPs can be manually resynchronized while the 5620 SAM scheduled resynchronization functionality is disabled. This functionality applies to some LSP objects that are associated with poor server performance under certain network failure conditions.</p>
MSAP enhancements	<p>Event logs record the date, time, and active state for every state change of an MSAP. You can also view date and time that the MSAP was first created and the date and time of the last active state change.</p>
STM enhancements	<p>Enhancements to improve the usability of the Service Test Manager include the ability to:</p> <ul style="list-style-type: none"> <li>• select the type of objects displayed by the STM</li> <li>• view the test results for a tested entity</li> <li>• compare the test results from two tests of the same type</li> <li>• select the test suite results for a tested entity</li> <li>• view validation results for each tested entity</li> </ul>
ESM enhancements	<p>The 5620 SAM supports ESM Dynamic Host Persistence, which will provide persistence of subscriber host information of properties that bind a host to a SAP, IP address or MAC address. This will provide troubleshooting functionality while avoiding unnecessary and unscalable network queries. This feature is supported on the 7750 SR, 7450 ESS, and the 7710 SR, Release 5.0 or later.</p>
Host tracking	<p>The 5620 SAM supports a host tracking policy and configuration of IGMP host tracking parameters on VPLS, IES, and VPRN service sites and SAPs. The host tracking policy is applied to a residential subscriber profile and allows a subscriber's video traffic (multicast) to be included in the egress rate control for the subscriber. You can collect, view, and clear on-demand host tracking statistics and information.</p>
PBB Ethernet (G.8031) tunnel support	<p>The 5620 SAM provides enhancements to the PBB E-PIPE service to ensure 100 millisecond failover over a native Ethernet core in the case of failure of a backbone NE or link. The 5620 SAM supports the creation of Ethernet (G.8031) tunnels, endpoints, and paths.</p>
Generic NE Layer 3 support	<p>The 5620 SAM supports the read-only management of third-party generic NEs using the standard MIBs of Routing Protocols.</p>

DCR number (duplicate)	Description
PBB Access Dual-Homing enhancements	<p>PBB Access Dual-Homing provides a non-MSTP or non-RSTP solution for black-hole avoidance. The enhancements address both ELINE (E-PIPE) and ELAN (I-VPLS) scenarios when MC LAG is used for access dual-homing. PBB access dual-homing is supported on all 7450 ESS and 7750 SR product lines on the following IOM and MDA cards with chassis mode D restriction:</p> <ul style="list-style-type: none"> <li>• IOM 3 LAVA</li> <li>• MAGMA</li> </ul> <p>Access dual-homing is restricted for use only with MC LAG SAP.</p>
SAA Accounting Files	The 5620 SAM supports the configuration of SAA Accounting Files for the collection of test results from NE Schedulable Test Suites.
Discover into group	The 5620 SAM allows the user to choose the destination Topology Group for all newly discovered NEs.
Tabbed info tables	The 5620 SAM allows the simultaneous application of multiple information tables types to any map object.
Restrict active sessions per user account	The number of active sessions that a user account can successfully login can be limited to a specified number.
Enhanced information sharing and communication	The 5620 SAM allows users to share information and communicate with each other by saving window information, going to specified windows, and sending text messages.
Using sample scripts	The 5620 SAM allows the user to browse sample scripts and create instances of any sample.
Y.1731 (full implementation)	Three new Y.1731 OAM tests have been added, as well as AIS functionality enhancements.
Fast channel change and multicast retransmissions for ISA-Video MDA	The ISA Video module has been enhanced to support reliable multicast delivery and fast channel change capability.
Ad-Insertion support for ISA-Video MDA	The ISA Video module has been enhanced to support advertisement insertion.
IPv6 PIM ASM	IPv6 support for PIM was added.
Point-to-Multipoint LSP support	A new type of LSP was introduced, specifically, Point-to-Multipoint. The Point-to-Multipoint LSP is modeled after Dynamic LSPs.
Multicast VPN with BGP Control Plane	Enhancements were made to MVPN BGP routing instance routing information distribution.
BGP AD support in B-VPLS	Support for BGP auto-discovery for B-VPLS B-Sites has been added.
Service templates (phase III)	XML API service creation templates were augmented with enhanced object selection capabilities.

DCR number (duplicate)	Description
"max-path eibgp" for load sharing eBGP and MP-iBGP routes	MP-BGP load-balancing was introduced, which allows a route to have multiple next-hops of different types. For example, such a route can now utilize both IPv4 next-hops and MPLS LSPs simultaneously.
Per LSP and per class statistics solution for LDP	Two new types of accounting statistics were introduced: combined MPLS LSP ingress/egress statistics, and combined LDP LSP egress statistics.
CPM/1ag MIP management	The display of MIP information and resyncing on VPLS SAPs and spoke SDP bindings has been enhanced.
CPM 802.1ag MEP enhancement	Users can now create multiple loopback or link trace tests for a particular MEP.
<b>5620 SAM Release 7.0 R3</b>	
Daughter card support on the 7750 SR	The 5620 SAM supports the 1 x Channelized OC12 CES MDA on the 7750 SR, Release 7.0 R3 and later, and the 1 x Channelized OC12 CES MDA on the 7710 SR, Release 7.0 R3 and later
CPM/Switch Fabric 3	The 500 Gb/s CPM/Switch Fabric 3 is supported on the 7750 SR-12 and 7450 ESS-12. The 250 Gb/s CPM/Switch Fabric 3 is supported on the 7750 SR-7, and the 7450 ESS-7
9500 MPR support	The 5620 SAM supports the following features on the 9500 MPR, Release 1.2 or later: <ul style="list-style-type: none"> <li>• MSS-4 4-slot shelf</li> <li>• MSS-8 8-slot shelf</li> <li>• core-enhanced card</li> <li>• 1 x radio modem card</li> <li>• microwave links automatically displayed as physical links</li> <li>• 32 x DS1/E1 card (E1 support only)</li> <li>• 1 + 1 EPS core card protection</li> <li>• 1 + 1 FD and 1 + 1 HSB protection for radio modem cards</li> <li>• 1 + 1 EPS protection for 32 x DS1/E1 cards</li> <li>• VLAN groups and VLAN paths</li> <li>• 9500 MPR Cpipe service</li> <li>• 802.1p and DSCP QoS classification</li> <li>• software upgrades</li> <li>• alarms and statistics</li> </ul>
IGMP Snooping on the 7210 SAS-E	IGMP Snooping can be enabled for VPLS on the 7210 SAS-E, Release 1.0 R4 and later.
OmniSwitch enhancements	The 5620 SAM supports the following features on the OmniSwitch: <ul style="list-style-type: none"> <li>• static and dynamic LAGs</li> <li>• VLAN groups</li> </ul>

DCR number (duplicate)	Description
Support RSVP and LDP simultaneously in auto-bind	Existing 5620 SAM support for the auto-bind capability has been extended to include MPLS service tunnels (LSPs) utilizing either RSVP or LDP.
548349	Add support to simultaneously allow LDP and RSVP-TE auto-bind within a single VPRN instance.
558432	All ISA cards, including AA and IPSec, to be removed from the "Premium" license category.
<b>5620 SAM Release 7.0 R2</b>	
513277	Active window should be shown on task bar.
536132	Reduce the number of alarms relating to MC-LAG/MC-Ring operation for L2 Access Interface and VLL sites.
543904	Requirement for the nms_info utility to display the operating system name, architecture, and version information.
550175	The nms_info utility will not print records with zero values.
552687	Requirement for the 7705 SAR Release 2.0.R3 to support MD5 authentication for RSVP.
552688	Requirement for the 7705 SAR Release 2.0.R3 to support T1 CAS.
558251	Requirement for the 5620 SAM-O find command filter to exclude sub classes.
558593	Requirement for the samOss.jar to be available through the 5620 SAM-O web server.
<b>5620 SAM Release 7.0 R1</b>	
487315	XML API methods can now be called from all classes that inherit from the defining class.
492830	5620 SAM-O XML schema definitions now include minimum and maximum values for string length, integer, and long properties.
493677	Physical Topology map requires a Create Physical Link button.
509090	A server activity switch is initiated if the standby main server can establish connectivity to the database and network elements, while the primary main server has lost connectivity to the managed network.
516628	Renumbering is available for MAF and CPM filter entries.
520664	Network element backup and restore operations can be separately assigned to different scope of command roles.

DCR number (duplicate)	Description
520722	Filters can be renamed, edited, and switched between public and private.
521264	Requirement to include node name in the Discovered NE window.
523117 (538301)	A single client delegate installation can run separate GUIs for multiple simultaneous user sessions. Log files and other user-specific files do not collide between different user sessions. Sessions can be monitored for each delegate server.
523135	An activity switch occurs if the main server cannot reach the database or network elements, while the standby server can reach network elements.
524882	Request to extend scope of command to be user ID specific.
526815	An activity switch is invoked if the primary main server cannot reach the primary database, while the standby main server can reach the primary database.
528923	System information forms now include details about the services active on auxiliary servers.
530886	Creation, deletion, and modification permissions are separated within Scope of Command functionality.
531762	The DatabaseRedundancyFailure alarm is now self clearing and is raised for Standby database "down" or "not in managed recovery mode".
532121	Enumeration values can be displayed in script-driven forms.
532845	Added FIB next-hop statistics, which can be collected/viewed on the card slot object.
532846	Added FIB summary statistics, which can be collected/viewed on the card slot object.
533924	Removed the OAM Test Results tables from the resynchronization of the deployed tests. Changed all the OAM mediation files starting with 5.0.
534011	Filters defined for higher-level objects (e.g., service) can be used for lower-level objects (e.g., APipe).
534881	A summary file BACKUP_SUMMARY.INFO is now created with each backup to identify information such as the database name, file locations and sizes, OS platform, 5620 SAM and Oracle version, and backup time.
535288	A preferred database can be assigned to each 5620 SAM main server. A switchover is automatically run if the main server is started and the primary database is not the preferred database. A main server activity switch will automatically run if the primary server and primary database are not aligned after a database failover.
535297	5620 SAM-O supports filtering bitmap values using a hexadecimal format.
535370	Scripts support definition of element sort order in a combination box.
536088	Support for the property Uptime for VRRP and SRRP instances.
536132	Requirement to reduce the number of alarms relating to MC-LAG/MC-Ring operation for L2 Access Interfaces and VLL Sites.

DCR number (duplicate)	Description
537722	IGMP snooping to support a limit on the number of sources for each group.
537724	Support configuration of PPP Magic Numbers on bundles to detect T1 Loop Conditions.
538133	Modification of BER SF Link Down is now blocked on unsupported MDA and Encap Types.
538662	Requirement for MAC Move to support an unlimited number of retries.
539446	When the NE indicates a MacMoveExceeded condition, the associated MAC Address field is stored and displayed by the 5620 SAM.
540713	The nsmsvr.bash stop and force_restart now report the list of process threads before stopping the server.
541268	Requirement for support of RADIUS connect/disconnect request statistics on the 7750 SR. Support on 7450 ESS and 7710 SR will be in 5620 SAM Release 7.0 R4.
541873	When deleting an MDA, the 5620 SAM will reset any associated Port Scheduler, Named Buffer Pool, and HSMMDA Port Scheduler policies back to default, enabling the user to remove the MDA without the need to open each port and remove the associated policy. The removal of the association of these policies is completed for ports, SONET channels, and TDM channels (DS0 Channels and DS3 Channels). For the Port Scheduler and HSMMDA Scheduler policies, the associated overrides will also be deleted. Once deleted, it is not possible to retrieve the overrides, and consequently the "View Dependencies" is updated to include a count of overrides associated with a card, channel, or port.
542227	The system information form now includes a tab for auxiliary server information including the IP address, hostname, status, and type.
542643	Show the registered Protocol numbers beside the protocol name.
543498	Link Loss Forwarding is supported on ATM Cell Apipe on 7750 and 7710 Release 7.0. The support is restricted to SAPs with "Port" connection type on a clear channel under 4-port OC3-STM1 ASAP MDA.
544091	Requirement to add a select button to query Named Buffer Pool.
544573	The Relay Plain BOOTP parameter on the General tab of DHCP configuration form is available for DHCP configuration of IES and VPRN L3 interfaces. The value dhcpRelayPlainBootp specifies whether plain bootp messages will be relayed. If set to 'disabled', the system will consider plain bootp packets as malformed DHCP packets, and will not relay these messages.
544576	Hub type is now supported on VPRNs with Retail Subscriber Interfaces that have the Private Retail Subnets property set.
545978	Lower-order alarms on SONET ports can be suppressed to facilitate faster switchovers.
545980	Support for protocol BGP-VPN under VRRP policy route-unknown.
546186	DS1 clock state is automatically updated on the configuration form.

DCR number (duplicate)	Description
546648	Support added for the ability to choose to use the client pool to search for IP address for DCHP/PPPoE hosts. Also, the pool name was added as a DHCP vendor-specific-option for an IES/VP RN service.
547945	The maximum limit for the file policy rollover time has been increased to 7 days.
548299	Modifications to the filter selection windows on the CFM Continuity Check (CC) test. The new additions include a filter browser for selection of the Maintenance Domain and CC Test Service. If a MEP is created from a SAP or binding, the Maintenance Association selection window also has a filter.
549090	An alarm is raised when the NE timing is in the Holdover state.
549963	All HSMDA supported policies are blocked for 7750 SR1 and 7450 ESS1.
550166	Modification to remove support for the following OAM Test thresholds: inbound jitter, outbound jitter, inbound latency, and outbound latency. This modification applies to the following OAM test types: cpe-ping, icmp-ping, and icmp-trace. This DCR is related to DTS 70381: SAA in/out latency, in/out jitter not supported for cpe-ping, icmp-ping, icmp-trace.
550236	Requirement to add support for new Local User Database DHCP/PPPoE masks. Previously, only the circuit-id mask was present. Now masks are available for all mask match types.
550484	For Ingress QoS queue and HSMDA queue overrides, validation was added for access interfaces, SLA Profile policies, and Subscriber Profile policies. This modification prevents a CIR override if the queue is policed.
551005	The forcedirectio option is no longer required when configuring partitions on the 5620 SAM database station. Disk access is optimized to use the appropriate buffering mechanism.
553887	Secure FTP connection timeout and read timeout can be configured in mediation policies. The values are used when secure file transfer is enabled to communicate with network elements.
554941	When executing Continuity check tests, the remote MEP list is now created on demand without having to trigger a synchronize action. At the completion of the test, the remote MEP list is automatically deleted.
554945	7705 SAR network elements are supported by the updateSysName.bash and bat utilities.

## 2.3 Compatible network element software loads

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The following table lists the product compatibility for 5620 SAM Release 7.0.

Product	Release
7750 SR and 7450 ESS	Please see the <i>5620 SAM Network Element Compatibility Guide</i> for information on release compatibility.
7710 SR	
7705 SAR	
7210 SAS-E and SAS-M	
OmniSwitch 6400	
OmniSwitch 6850	
OmniSwitch 6855	
OmniSwitch 9600	
OmniSwitch 9700	
OmniSwitch 9800	
9500 MPR ESTI and ANSI	

## 2.4 Features and network element releases no longer supported

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### Discontinued features support

The *5620 SAM Release Description* contains information on features that are no longer supported by 5620 SAM.

Alcatel-Lucent discontinued support for the following components in the 5620 SAM Release 7.0 R1:

- support to run any 5620 SAM component on the Solaris 9 operating system
- support to run the 5620 SAM GUI client on a Linux operating system

### Incompatible network element software releases

5620 SAM Release 7.0 no longer supports the following network element software releases:

- 7750 SR Release 4.0 and earlier
- 7450 ESS Release 4.0 and earlier
- 7710 SR Release 4.0 and earlier
- 7250 SAS Release 1.0

## 2.5 Restrictions and notable information

### Restrictions

The following table lists restrictions to product and feature functionality.

Restriction	Release introduced	Release planned for removal
<b>Restrictions affecting the 5620 SAM</b>		
No restrictions for this release.		
<b>Restrictions affecting the management of the 7705 SAR</b>		
No restrictions for this release.		
<b>Restrictions affecting the management of the 7710 SR/7750 SR/7450 ESS</b>		
No restrictions for this release.		
<b>Restrictions affecting management of the 7210 SAS-E</b>		
For a 7210 network policy that is set to type "Port", it is not possible to synchronize the Local Network policy with the Global Network policy. PTS 571576 tracks the implementation of a fix for this management limitation.	5620 SAM Release 7.0 R5	—
<b>Restrictions affecting the management of the 7250 SAS/7250 SAS-ES/7250 SAS-ESA/7250 SAS-M/T5C</b>		
<p>You cannot use the 5620 SAM to modify a VLAN configuration with the following attributes:</p> <p><b>Situation A</b></p> <ul style="list-style-type: none"> <li>VLAN not created using the 5620 SAM</li> <li>VLAN name greater than 19 characters</li> </ul> <p><b>Situation B</b></p> <ul style="list-style-type: none"> <li>VLAN created using the 5620 SAM</li> <li>VLAN name greater than 19 characters</li> <li>VLAN removed from the 5620 SAM database due to unmanage/remanage of a node or deletion of a service</li> <li>rediscovery of the nodes contained with the VLAN</li> </ul> <p>You receive a deployment failure if you attempt to modify a VLAN with the above attributes.</p>	5620 SAM, all releases	Node limitation - no plan to remove restriction.

Restrictions affecting the management of the OmniSwitch 6400/6850/6855/9600/9700/9800		
IGMP multicast configuration is restricted to a value of 32 or less. Choosing a value greater than 32 will result in a deployment failures. PTS #567952 is tracking this issue.	5620 SAM Release 7.0 R5	—
Restrictions affecting the management of the 9500 MPR		
When you use the 5620 SAM to manage the 9500 MPR, use of the NEtO external element manager must be restricted to configuring only radio modem card parameters. If you use NEtO to configure any other parameters, services can be affected and can seriously impact network management and 5620 SAM performance	5620 SAM Release 7.0 R3	No plan to remove restriction.

## Notable Information

The following table lists notable information for product and feature functionality.

Case	Description
<b>Notable information affecting the 5620 SAM</b>	
Installation and Upgrade Guide	<p>When upgrading a redundant 5620 SAM system on Solaris, before you reboot the DB server, you should disable the proxy startup script so that the proxy is not restarted after reboot. This action avoids possible failure of the standby DB activation.</p> <p>====</p> <p>Disable the database proxy</p> <p>-- Enter the following at the CLI prompt to change to the /etc/rc3.d directory:</p> <pre># cd /etc/rc3.d</pre> <p>-- Enter the following at the CLI prompt to disable the Oracle proxy daemon by renaming it:</p> <pre># mv S965620SAMOracleProxyWrapper inactive.S965620SAMOracleProxyWrapper</pre> <p>=====</p>
Equipment Manager	5620 SAM Release 6.x was the first release that implemented static shelf drawings for newly supported NEs. The trend toward static drawings will continue, and in a future release of the 5620 SAM, the Equipment Manager will be removed and all functionality provided by it will be moved to individual equipment properties forms.
GNE traps	If GNE traps that are mapped to alarms are lost, the 5620 SAM cannot restore the missing traps, and consequently the alarm is lost.

5620 SAM routing policies rediscovered after 7.0 upgrade	Any upgrades from 5620 SAM Release 6.1 or earlier to Release 7.0 or later, will result in the routing policies in the 5620 SAM database being deleted and rediscovered at the first 5620 SAM server startup. Until this initial rediscovery of router policies is complete, routing policies may not be visible from the GUI or OSS clients. This operation could take some time to complete depending on the number of network elements and the number of routing policies configured in the network. This rediscovery only occurs on the first 5620 SAM server startup. Subsequent server starts will not perform this discovery.
Database import and export utilities require specification of a password to manage encrypted data in data migration procedures	The expdp and impdp commands require a password to manage encrypted data. Additionally, the ewallet.p12 file must be backed up and restored with export and import files for use in data migration procedures.
A database backup can only be restored to systems using the same operating system as the original database	Ensure that the operating system type of the workstation where the backup was performed matches the operating system type for the destination workstation. For example, Solaris SPARC to Solaris SPARC, Solaris x86 to Solaris x86, and Windows to Windows.
5620 SAM GUI client memory requirement	Starting in 5620 SAM Release 6.1, Alcatel-Lucent recommends having 1 GB of dedicated memory for the SAM GUI client. See the <i>5620 SAM Planning Guide</i> for more information.
Minimum memory for collocated 5620 SAM server	Starting in 5620 SAM Release 6.1, Alcatel-Lucent requires 8 GB of RAM on a Solaris installation of a collocated SAM Server/Database. Previously 4 GB of RAM was supported for labs and demos only. See the <i>5620 SAM Planning Guide</i> for more information.
<b>Notable information affecting the management of the 7705 SAR</b>	
No notable information for this release.	
<b>Notable information affecting the management of the 7710 SR/7750 SR/7450 ESS</b>	
ARP-Timeout	Due to a boundary limitation on earlier 7x50 SR releases, the 5620 SAM does not allow a user to set the ARP-Timeout parameter of a [M]VPLS management interface to 0. The 5620 SAM supports a parameter range of 1 to 65535. On some later releases of 7x50 SR, it may be possible to use 0 as a valid value. In those cases, the user must manually configure the value of 0 using the CLI.

ANCP support	<p><b>ANCP OAM</b></p> <p>The ANCP OAM test returns a result trap only if it can locate the subscriber line ANCP string. In this case, it correctly returns the failure or success message. If the ANCP string (i.e. the subscriber line) does not exist on the DSLAM, the network element cannot ping it and does not return a trap. The OAM test in 5620 SAM remains in the "pending" state until the request times out.</p> <p>To correct the problem, the user must check the "Trap Generation: Test Failure" check box. This behavior differs from the behavior of the other OAM tests.</p> <p><b>Static ARP on a VPLS (MVPLS) L2 management interface</b></p> <p>The 5620 SAM does not support the configuration of static ARP on a VPLS (MVPLS) L2 management interface. If required, this configuration must be done using CLI. Static ARP configuration must be removed from the interface using CLI before this interface can be removed using the 5620 SAM.</p>
Disabling periodic SR resyncs	<p>In 5620 SAM Release 7.0, the periodic scheduled polling of SR OS based network elements will be disabled by default. This change will apply to any SR OS based MIB entry policies configured with the default polling interval of 24 hours before an upgrade. After an upgrade, the polling interval for the MIB entries changes to Disabled. If an SR OS MIB entry policy polling interval has been modified to a value other than the default 24-hour period, the MIB entry policy is not modified during the upgrade and the periodic polling continues after the upgrade. Network elements not based on the SR OS continue to be polled regularly every 24 hours.</p> <p>This polling interval is being disabled because the 5620 SAM regularly checks for missed traps by using trap indexes on SR OS network elements. The change to disabling periodic polling conserves 5620 SAM server, network, and network element resources.</p>
Upon a full re-synchronization, 7750/7450/7710 6.0 R2 routers may not provide MIB entries on a NE Schedulable or NE Persistent STM test, which may result in 5620SAM removing tests	<p>Perform manual tests by using regular OAM tests invoked from 5620 SAM. 6.0 R3, and later versions of the router resolve the problem as per the Resolved Issues section of the <i>7750 SR /7450 ESS /7710 SR 6.0.R3 Software Release Notes</i>.</p>

Notable information affecting the management of the 7210 SAS-E	
7210 mediation policy	<p>The 7210 network element may drop SNMP requests from the 5620 SAM due to a high request rate. A high request rate can occur during network element discovery or resynchronization processes. The 5620 SAM can consequently experience delays in completing discoveries or resynchronizations during the default 10-second timeout period.</p> <p>This issue is unlikely to occur in a live network where latency and limited bandwidth will slow-down the request rate. This limitation is expected to be resolved in a future maintenance release of the 7210 SAS-E.</p> <p>PTS 557344 tracks the implementation of a fix for this management limitation.</p>
"2 x 12-Gig IOM Card" name change	As of 7.0 R5, IOM name for 7210 "2 x 12-Gig IOM Card" have changed to "7210 IOM".
Notable information affecting the management of the 7250 SAS/7250 SAS-ES/7250 SAS-ESA	
Children for VPLS sites on a 7250 2.0	<p>The children for a VPLS site (SAPs and SDPs) are listed as down (adminStatus) when the 5620 SAM is used to update attributes on the site. The user should perform the following sequential actions to address the limitation:</p> <ol style="list-style-type: none"> <li>1. manually turn up SAPs</li> <li>2. manually turn up SDPs</li> </ol>
5620 SAM management of 7250 SAS and Telco network elements	<p>You cannot use the 5620 SAM to provide the following management functions for 7250 SAS and Telco network elements:</p> <ul style="list-style-type: none"> <li>• Node backup and restore</li> <li>• Use the 5620 SAM rather than CLI to manage CESs on 7250 SAS devices, Release 1.0 R3 or later. Using CLI to manage CESs may cause database inconsistencies between the network element and 5620 SAM</li> <li>• LAGs (also called agX on Telco devices)</li> <li>• All network-element based security, such as management access filters and RADIUS authentication</li> </ul> <p>You can use the 5620 SAM to provide the following read-only management functions for 7250 SAS and Telco network elements:</p> <ul style="list-style-type: none"> <li>• Routing instances and L3 network interfaces</li> <li>• Routing protocols</li> </ul> <p>You should use the 5620 SAM rather than CLI to manage CESs on 7250 SAS devices, Release 1.0 R3 or later. Using CLI to manage CESs may cause database inconsistencies between the network element and 5620 SAM.</p>

<p>If a user deletes and then re-creates a Secondary LSP on a 7250 3.0 NE, the new configuration could have an incorrect path defined. This is caused when the old path information for the Secondary LSP is not correctly cleared by the 7250 3.0 network element before the new one is created.</p>	<p>If a Secondary LSP must be deleted and recreated on a 7250 3.0 NE, ensure that all the hops for the old Secondary LSP are deleted before re-creating a new one</p>
<p><b>Notable information affecting the management of the OmniSwitch 6400/6850/6855/9600/9700/9800</b></p>	
<p>On NEs with release 6.3.4 software, changing any protocol STP, RSTP, or MSTP from the configured protocol creates a deployment failure.</p>	<p>The user should perform the following sequential actions to address the limitation:</p> <ol style="list-style-type: none"> <li>1. Routing -&gt; Bridge Properties -&gt; Spanning Tree -&gt; Port. Change the Management port property Admin Edge as enabled.</li> <li>2. From CLI, Disable Management VLAN from STP protocol. For example, <code>vlan 1069 stp off</code>.</li> <li>3. From CLI for flat mode: <code>bridge cist &lt;slot/port&gt;admin-edge on</code>.</li> <li>4. From CLI for bridge mode: <code>bridge 1x1&lt;vid&gt; &lt;slot/port&gt; admin edge on</code>.</li> </ol> <p>PTS 564992 tracks the implementation of a fix for this management limitation.</p>
<p>SAP profile with C-VLAN translate set</p>	<p>OmniSwitch NEs only support a single SAP, originating from an IPM-VLAN within an Ethernet service, to have a SAP profile with C-VLAN translate set to true.</p> <p>PTS 563864 tracks the implementation of a fix for this management limitation.</p>
<p>UDP relay destination entries</p>	<p>User cannot view all UDP Relay Destination in the 5620 SAM GUI. The workaround is to use the <code>show ip udp relay destinations</code> CLI command.</p> <p>PTS 546932 tracks the implementation of a fix for this management limitation.</p>
<p>UDP relay statistics</p>	<p>The UDP Relay statistics counters are incorrectly displayed in the 5620 SAM GUI. The workaround is to use the <code>show ip udp relay statistics</code> CLI command.</p> <p>PTS 546949 tracks the implementation of a fix for this management limitation.</p>
<p>Power State value</p>	<p>The currently released software load of the OmniSwitch 6855 will incorrectly report the Power over Ethernet (PoE) reading for ports via SNMP. As a result, 5620 SAM will always display the "Power State" to be "On". The workaround is to use the CLI command.</p> <p>PTS 541014 tracks the implementation of a fix for this management limitation.</p>

Secure file transfer	Secure file transfer mode is not supported for OmniSwitch nodes managed by the 5620 SAM. There is no work-around for this limitation.  PTS 549035 tracks the implementation of a fix for this management limitation.
<b>Notable information affecting the management of the 9500 MPR</b>	
Documented but not supported	The following features are documented in the <i>5620 SAM User Guide, Release 7.0 R5</i> , but are not currently supported by the 5620 SAM: <ul style="list-style-type: none"> <li>• 2.048 MHz G.703 synchronization interface</li> <li>• 5/10 MHz synchronization interface</li> <li>• Unique Sync Master setting</li> <li>• DS1/E1 Input Synchronization</li> </ul>

### 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. The following table defines the priority levels used in the problem summaries.

Priority level	Definition
Critical	This priority refers to problems that affect service, with no acceptable workaround available.
Major	This priority refers to problems that affect service, with an acceptable workaround available.
Minor	This priority refers to problems that do not affect service but cause features or functionality to be inoperative.

#### 3.1 Product Alerts addressed by this release

The following table lists Product Alerts that are addressed by 5620 SAM Release 7.0. Product Alerts are accessible from Alcatel-Lucent Customer Support Center link at <http://www.alcatel-lucent.com/myaccess>.

TA #	PTS #	Title
Release 7.0 R7		
No product alerts issued for this release.		
Release 7.0 R6		
No product alerts issued for this release.		
Release 7.0 R5		

No product alerts issued for this release.
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Release 7.0 R4		
3931	563404	5620 SAM 7.0 R3 upgrade will fail if there are managed OMNI switches containing configured VLANs.
3932	562828	5620 SAM 7.0 database backups may fail due to timeout.
3933	561567	5620 SAM 7.0 XML request for performance statistics may take a long time.
3934	561549	5620 SAM Oracle database runs out of processes.
Release 7.0 R3		
3919	560114	Upgrading to 5620 SAM 7.0 R1 or R2 may fail.
3920	562092	5620 SAM database backups may be invalid.
Release 7.0 R2		
3901	558064	5620 SAM trap processing stalls for network elements that have rebooted.
3910	558703	5620 SAM 7.0 R1 DB backup are not restorable.
Release 7.0 R1		
No product alerts issued for this release.		

## 3.2 5620 SAM fixed problems

### Release 7.0 R7 critical fixed problems

There are no critical problems fixed by this release.

### Release 7.0 R7 major fixed problems

PTS # (duplicate)	Description
570953	Users can shut down service outside their span of control.
571671	Statistics records are occasionally being duplicated due to incorrectly showing six ports in a LAG instead of three.
573459	Encryption wallet could not be opened, resulting in upgrade failure.
574870	Deleted subnets on point to point links can still be discovered when LLDP is enabled.
575735	When a L3 interface is created without a terminating port associated with it, the "Collect Accounting" flag is set to "True" by default and cannot be changed from the interface properties window.

PTS # (duplicate)	Description
575831	Searches from the "FIB Entries" tab hold on to memory and eventually cause the "Running low in memory, closing jms connection..." message on 5620 SAM clients.
576430	"Running low in memory, closing jms connection..." message is reported on 5620 SAM clients when viewing "Components" of VPLS Services.
577196	Simultaneous discovery of multiple routers causes JVM memory depletion.
577717	Node resynchronization using 5620 SAM Release 6.1 fails after adding a BOF out-of-band IP address.
578104	SAM does not allow the creation of the "L2 Access Interface" of an Epipe Site if the associated LAG group does not have any members and if the non-default Egress Policy is chosen during creation.
579113	When doing a node software upgrade of multiple sites through 5620 SAM, nodes are upgraded twice.
582193	When creating an IES service on a 7210 SAS, the accounting flag is set to true even though no accounting policy is defined.
582571	NetP upload process taking longer than expected.
581739	EmsServer.log reports problems on obj_e839ec72.
581917	SDP status mismatch between 5620 SAM and NE.

### Release 7.0 R7 minor fixed problems

PTS # (duplicate)	Description
568560	Epipe service is down by default for 7210 SAS-M.
571741	Unable to specify Ingress match QinQ Dot1P in QoS tab when creating a VPLS with a L2 Access interface.
579346	When upgrading a database from a release earlier than 5620 SAM Release 7.0 R4 to 7.0 R4 or later, collection policies are not being created for OSS Statistics.
579397	Physical links do not disappear from 5620 SAM GUI when LLDP is disabled.
580434	Oracle database system error occurs when activating the standby database.
581806	The upper limit of the xmlTimeToKeepFile parameter needs to be increased.
555640	5620 SAM is incorrectly raising DDM alarms when the "DDM Event Suppression" option has been enabled on the port with the DDM.
570989	Modification of the DS0 description via XML results in an error.
576813	No sites are shown in the customer window sites tab.

### Release 7.0 R6 critical fixed problems

There are no critical problems fixed by this release.

**Release 7.0 R6 major fixed problems**

PTS # (duplicate)	Description
565552	LsdbOverflow Alarms are generated for standard router OSPF instances, but not for VPRN OSPF instances. In both cases, the 5620 SAM receives and processes the trap.
566379	Setting polices to released causes routing outage.
566552	Specific SAA tests have improved to support results in microseconds. The 5620 SAM needs to update the results forms to be in microseconds.
568187	Services marked for deletion in database.
568630	Failure to shutdown Fast Ethernet ports on the 7250 SAS.
568709	Real-time plotter fails to accurately plot multiple traffic queues simultaneously.
568923	QoS apply failure on IES service.
569311	Durable client connected to 5620-SAM-topic, which saved the queued messages in memory instead of the database.
569420	Incorrect conversion of Accounting statistics retention times when upgrading to 5620 SAM Release 7.0 R2.
569483	NE database synchronization feature (rsync) fails after upgrade.
569699	Performance impacted by not saving partial changes.
569861	Requirement to improve performance for SAP Copy/Move.
569862	Slow feedback when limit reached for SAP Copy/Move.
570912	5620 SAM script failure when a show boot-messages, using the 5620 SAM script, is executed on the 7450 5.0R7 TiMOS.
571926	Requirement to shutdown JMS due to low.
572038	Customer sites cannot be listed from a global Customer properties form, which prevents creation of Aggregation Scheduler objects on Customer sites. Aggregation Schedulers associated with these Customer sites cannot be modified.

**Release 7.0 R6 minor fixed problems**

PTS # (duplicate)	Description
538563	When switching from Active to Backup CPM, alarms are raised for ports, flash cards, and BITS.
553213	Failure to add new port to LAG using the 5620 SAM.
557830	LAG network-queue-name still records the old name.
560792	The 5620 SAM b-VPLS service topology view loses STP state information during binding of SAPs.
564838	Incorrect warning appears if the user tries to view resource information without the correct permission.
566714	The Oracle MRP process cored during Oracle startup.

PTS # (duplicate)	Description
567173	The 5620 SAM throws null exceptions when users attempt to create a channel on a channelized DS1/E1 ASAP port on a 7705 node.
567735	In-band node restore fails.
567904	DDM tab not appearing on the 5620 SAM GUI.
568842	User Account suspended after first failed login.
570063	Execution results are not cleared for SAP Copy/Move.

### Release 7.0 R5 critical fixed problems

There are no critical problems fixed by this release.

### Release 7.0 R5 major fixed problems

PTS # (duplicate)	Description
534510	From the 5620 SAM GUI, if you initiate an SSH session to an NE, the action is not logged in the 5620 SAM Usage and Activity Records.
555560	Error when configuring Autonegotiate = false.
560794	When you run LLDP and have a native PBB (b-SAPs), the 5620 SAM binds the service sites in the service topology view.
564072	VLAN creation within a Telco T5C Ring Group.
565771	Failed upgrade from 5620 SAM Release 6.1 R4 to 5620 SAM Release 7.0 R3.
566993	When deleting or shutting down VPRN subscriber SAPs, the 5620 SAM automatically shuts down the associated SRRP instance (if it exists) and deletes its message.
566996	The 5620 SAM auxiliary server is writing the incorrect service-id to the AA accounting statistic files located under the xml_output directory.
567440	5620 SAM performance degrades when users perform a search for either a BGP "Export Policy" or a "VRF Export Policy".
568422	Reports for STM probes are not being generated.

### Release 7.0 R5 minor fixed problems

PTS # (duplicate)	Description
528236	The Service Topology View of 5620 SAM does not scale.
538347	The 5620 SAM does not clear CF card failure alarm when failed CF card is replaced.
544089	VPRN topology shows red spoke bindings. The VPRN->Site->Routing->Type default setting of Regular assumes Mesh Topology. When one uses RSVP based SDPs to build a ring topology the service topology view will insert missing SDPs though they are not configured, but not trigger any alarms about this fact or warn the user of the mesh.

PTS # (duplicate)	Description
548763	Cannot change chassis mode from A to B.
554741	Field turns white when typing restricted character.
561414	Danger Temperature Threshold not applicable to 7x50.
563408	Temporary NE backup directories in pre-6.1 5620 SAM releases are not given samadmin permissions during an upgrade to a post-6.1 release, which causes NE backups to fail after the upgrade. This situation only applies to secure NE backups, not FTP-based backups.
567067	Auxiliary server unable to connect to the 5620 SAM server after an upgrade from 5620 SAM Release 7.0 R3 to 5620 SAM Release 7.0 R4.
567271	The "class_TopologyGroup.html" file in the 5620 SAM-O XML Reference Guide has misspelled the word "background" as "bacground".
567326	The targetIpAddress attribute is missing from icmp.IcmpPingResult.
567963	The 5620 SAM becomes unusable due to the JVM running out of memory. This problem is initiated when a user opens a properties form. The action of opening the form starts database queries of the customer's large-scale, ANCP-related tables.
568453	Error encountered when creating and saving a list that is greater than one page.
568608	Java CPU spike causes performance issues.
568910	Failed XML request using the 5620 SAM-O interface.

### Release 7.0 R4 critical fixed problems

PTS # (duplicate)	Description
565568	Sparrow NEs are not discovered when the maximum license count is zero for the 7750 SR MDA and Premium MDA.

### Release 7.0 R4 major fixed problems

PTS # (duplicate)	Description
546830	For multilink bundles, the 5620 SAM fails to add the first bundle member and produce a deployment failure if the bundle's administrative state is not Shutdown prior to the addition of the first bundle member. This problem applies to PPP Auto bundles on the 7710 SR and to IPCP PPP bundles on the 7705 SAR.
553978	The GUI client may run out of memory while importing software images.
560182	The Oracle10g_PreInstall.sh script adds the samadmin user but uses the "/" dir as its home directory.
561549	The 5620 SAM Oracle database is intermittently failing. The database will go down for about 2-second intervals every couple of hours.
561564	5620 SAM stops collecting stats from SRs.

PTS # (duplicate)	Description
561567	Cannot retrieve equipment interface stats as the 5620 SAM query can take a long time.
562224	Cannot retrieve equipment interface stats as the 5620 SAM query can take a long time.
562828	Database backup fails as it times out archiving archive logs in the backup set.
563302	Database restore fails but continues without prompting the user.
564114	After creating a Discovery Rule, discovering a new node and dragging and dropping to the Physical Topology map, the equipment remains in the Discovered NEs table and does not appear in Navigation Tree, only on the Physical Topology map.
564857	PDU cache entries read from database instead of file.
564883	Running jmsnmserver as root prevents 5620 SAM from starting.
565011	STP information on a B_VPLS not updated correctly on the 5620 SAM after a failure.
565437	Licensed 7710 SRs with CMAs cannot be discovered without a server restart when the license contains zero 7750/7710 MDAs.
565553	After upgrading from 6.1 R5 to 7.0 R3, the customer is blocked from making changes to SAPs on their 5.0 nodes because the SAP's "Default Subscriber ID Type" is set as "String", instead of "None".
565874	Epipe SAP copy/move failure.

### Release 7.0 R4 minor fixed problems

PTS # (duplicate)	Description
521481	Unable to remove Poller policy when Discovery Rule is removed.
536019	5620 SAM is inconsistently naming SAPs and APS channels. The issue occurs when SAPs are assigned to ATM OC3 ports on "m4-atmoc12/3-sfp" cards configured to use SDH framing.
544067	Resynchronization VRRP instance under the component tab clears all VR instances.
545187	NodeVersionMismatch Alarm after Telco upgrade.
549915	5620 SAM is raising a "TiUnsupportedOperationException" and is not allowing users to shutdown a 7250 port if a CES interface or channel has been configured on the port.
550798	The DDM "Tx Power Output" values shown in the 5620 SAM are incorrect and differ from the values shown using CLI for SFPs by LuminentOIC (Manufacture PN: SP-GB-LX-TDB-AL).
552678	Split Horizon Group name does not allow special character ":"
554862	MDA slots shows as unknown on the 5620 SAM.
554918	Template tab missing from IPsec interface.
555086	No pre-login message on NE for SSH session.
556583	5620 SAM takes along time to shutdown and the session needs to be manually closed at times.
557230	Auto Mesh SDP Binding creation prompt disappears.

PTS # (duplicate)	Description
557255	When the Auto Bind feature is configured on a VPRN, the topology map representation is inconsistent. When Auto Bind is set to MPLS:RSVP:LSP the drawing shows individual sites not connected.
557565	MPLS admin group displayed twice in assigned list.
557718	STM: Invalid size range shown for SAA LSP-Ping.
557729	STM: TTL test parameter not updating for SAA LSP-Ping.
558282	The error message from a failed database restore because the wrong directory is used is not clear.
558831	Mediation policy deletion fails after removing a rule element.
561543	The statistics plotter is not allowing 5620 SAM users to paste valid statistic objects from the clipboard. "Incompatible Object in Clipboard" message appears.
561545	The Shutdown button appears twice on the OSPF Interface form when a 5620 SAM user runs a RCA Audit against the interface and finds a MTU mismatch misconfiguration.
562501	Importing TiMOS SW in GUI results in a Java error.
562605	Part of the "Copy / Move SAPs" window is hidden from a 5620 SAM user when the window is opened via the "Tools -> Copy / Move SAPs" menu.
563088	The 5620 SAM "nmserver.bash force_restart" command is showing the message "Important: 5620 SAM Server will be restarted in 60 sec." when executed as the "root" Solaris user. No restart occurs since this command can only be executed as the "samadmin" Solaris user.
563328	5620 SAM Alarm forms sized incorrectly when opened.
563805	5620 SAM-O does not update distributed routing policies.
564687	When Oracle is installed with /var/tmp permissions set to 755, the database install GUI fails and reports a completely misleading error that another instance of the database is already installed.
564802	5620 SAM will not enable BGP on a VPRN when the routingInstance is greater than 252.
565328	Selection of Access Ingress policy from ESM Policy form is unacceptably slow.
565811	The IES service template generation NE compatibility form (and possibly other forms) becomes corrupted when anything is done in the "Product Compatibility Filter" window.

### Release 7.0 R3 critical fixed problems

PTS # (duplicate)	Description
559947	Nullpointer exception during the 5620 Release 7.0 R1 transition could cause failure of database upgrade.
560540	Communication failure after using the 5620 SAM to unmanage a 7710 or 7750 node.
562092	If a database backup is restored using the 5620 SAM, subsequent database backups initiated by the 5620 SAM are invalid.

**Release 7.0 R3 major fixed problems**

PTS # (duplicate)	Description
557731	Unacceptably long time to run the nmserver.bash -s nms_status command when the database is unreachable.
557913	5620 SAM prevents the deletion of a VLAN that has a dynamically learned LPS MAC entry associated with it. This problem is only applicable to the OmniSwitch series of nodes supported by the 5620 SAM.
557938	The forwarding state (fwd, blocking, or unknown) of the VLAN Uplink is not represented on the service topology map.
559242	Break in scheduled resynchronizations if the 5620 SAM encounters a node that failed the sysUpTime check.
559302	OmniSwitch node management problem after upgrade to 5620 SAM Releases 7.0 R1 or R2.
559677	XML-triggered restore not working with backups other than partial or full.
559911	5620 SAM upgrade failure related to identical filters in the database.
560005	Database failover problem related to an archive log gap.
560083	Database restore failure related to excessively long path name.
560114	5620 SAM Release 5.0 R9 to 5620 SAM Release 7.0 R2 upgrade failure when executing the FixUndoTbs.sql script.
560579	Cannot create a spoke connector between a CPipe and a VPRN.
560672	Manual database switchover may fail during an in-progress database-backup.
562330	The 5620 SAM does not notify an OSS client of a deployment error under the following conditions: <ul style="list-style-type: none"> <li>• number of "deployment retries" is set to be greater than zero</li> <li>• synchronous deployment</li> </ul>

**Release 7.0 R3 minor fixed problems**

PTS # (duplicate)	Description
520837	Requirement to block parallel backups using SAMbackup.
546324	Viewing alarmed object from the 5620 SAM client for DDM alarms results in the following series of events: <ul style="list-style-type: none"> <li>• object does not appear</li> <li>• red status bar continues to scroll</li> <li>• exception in the EmsClient.log</li> </ul>
549334	Node restore problem related to configuration files previously compressed with GZIP.
550455	5620 SAM displays an incorrect proxy log file location in the additional text of a "DatabaseBackupFailed" alarm.
552488	Statistics plotting error for historical accounting statistics using an in-profile counter.

PTS # (duplicate)	Description
554383	The getServices OSS call does not return the correct set of services assigned to a composite service.
554736	New, non-admin user cannot change password during initial login.
555292	Unable to configure the CVLAN type to All/Untag for a SAP if the same Uni is already associated with a different SAP.
557145	The VlanUplink object is not listed on VlanUplink tab after the service form is closed and re-opened.
557615	When the original binding has a VC Type of <i>VLAN</i> , the auto-created return binding is set to <i>ethernet</i> .
558725	Limitation related to the Event Notification Policy.
558774	Requirement to change mediation mapping between IPSec and AA port types.
558807	Entries/ports are not removed from L2 N/W interfaces, even after disabling the AutoVlanBinding for the ports/LAGS.
558915	5620 SAM supports an incorrect cPipe SAP CEM payload range for the 7705 SAR.
558924	Requirement for the 5620 SAM and 5650 CPAM to display the same patch level as the server in the following locations: <ul style="list-style-type: none"> <li>• Help-&gt;About</li> <li>• nms_status/nms_version</li> <li>• GUI license.</li> </ul>
558961	Object already exists error when adding McastGroups.
559208	Down-when-looped option is missing on the 7210 port form.
559507	Null pointer exception during attempt to enable the Service Membership Audit Policy Entry.
559851	T5C Management IP incorrectly placed on NE panel.
559943	Duplicate Cpipe button when adding a toolbar button.
560203	NE session file browser does not open.
560476	Requirement for logging changes in PersBase and ManagedObject classes.
561462	JMS event descriptions require update in XSD and the <i>5620 SAM OSS Interface Developer Guide</i> .

### Release 7.0 R2 critical fixed problems

PTS # (duplicate)	Description
558148	Database upgrade fails when invalid deployers exist in the database.
558445	Database upgrade can fail when deleting unwanted MPLS relations.
559297	Database upgrade fails when Alarm Notes exist.

**Release 7.0 R2 major fixed problems**

PTS # (duplicate)	Description
535591	Performance issue when processing LSP reroute events.
545314	5620 SAM unable to connect to standby database when bge0 is not configured for inter-server connection.
552998	Cannot use IP already in use by IPSec-Gateway.
555332	Double deletion of the IPSec Gateway when deleting a VPRN service. This problem was caused by an ordering issue between the Gateway and the SAP.
556473	JAVA error when adding Event notification policy.
556709	Info Table on links not updated correctly when properties changed.
557429	Inconsistent ISA-AA MDA statistics collection.
557564	Discovery of a node with existing MSAPs can render some of the MSAPs without set creation SAP/capture SAP properties.
557567	Requirement to support new field vRtrMplsLspPathLastMBBType that is present in trap vRtrMplsLspPathResigned on Release 7.0 R2 SR nodes.
557568	For some object types, applying advanced filters with the NOT operator might erroneously display an empty list when the matching count is non zero.
557585	AA Subscriber statistic objects are deleted from database.
557595	Performance issue related to the upgrade time for the script that creates missing alarms.
557602	JMS server restarts if a client runs out of memory.
557912	Index missing from collection table after DB upgrade.
557933	When creating VPRN Retail Subscriber Interface through OSSI without any PPPoE configuration, the PPPoE tab under the Retail Subscriber Interface Properties form is grayed out.
558022	Database backup cannot be restored.
558036	Database failover times were inconsistent.
558064 (558212)	5620 SAM stops processing traps after an NE reboot.
558074	Unable to re-instantiate the standby database.
558320	Under LSP Ping, a field has been removed on Release 5.0, 6.0, and 7.0 nodes. Appropriate deprecation in 5620 SAM was only implemented for Release 7.0, not earlier releases, causing the class-casting problem.
558603	The Subscriber ID string field incorrectly set for Release 5.0 NEs managed by the 5620 SAM Release 7.0. This problem prevents QoS Profile changes on SAPs.
558703	Release 7.0 R1 database backups cannot be restored due to missing files in the backup set.
558740	Restore button should not be active when a network element backup is not yet selected.
558767	OSSI findToFile query for NetworkElement returns null pointer exception.
558935	OSSI findToFile query fails for NetworkElement with incomplete backup.

PTS # (duplicate)	Description
558967	Referenced Discovered Links are deleted when endpoints are unmanaged.

### Release 7.0 R2 minor fixed problems

PTS # (duplicate)	Description
533314	Automatic SDP binding with bandwidth reserved set to "always" fails to bind spoke SDP in a VLL.
536294	FRR Hop limit during LSP creation does not align with CLI default.
545174	Deployment error for L3 IF spoke SDP bindings.
545711	The 5620 SAM "Oracle10g_Prelinstall.sh" script should prompt users with the option to perform a new install or an upgrade. The current behavior for upgrades is to pass in the "upgrade" option as a command-line parameter (CLP).
547957 (547274) (547957)	5620 SAM allowed an illegal configuration on node.
548849	The nms_info utility will now display IOM information.
549711	5620 SAM user groups are losing "Scope of Command" role permissions when upgrading from 5620 SAM Release SAM60_R2 to SAM60_R5.
551233	5620 SAM is missing scope of command role permissions for certain roles after upgrading from 5620 SAM Release SAM60_R2 to SAM60_R5.
551630	5620 SAM changes management port administration status.
553875	Period 5620 SAM trap info not complete.
553912	MC Ring ICB can only be added to SAP on MC-Ring.
555354	The nms-client.xml file has misspelled variable.
556296	Export NE backup always has focus over overwrite warning.
556717	Requirement for upgrade script to add default in-band ping policies for out-of-band discovered 7250s.
556995	Tool tip display issue for bit columns.
557201	Requirement to generate a log message when filters use unavailable properties.
557266	Installer potentially checking disk space on wrong partition.
557442	Incorrect button display in the Backup Restore window.
557464	Client exception when a span creation form was submitted.
557548	Map will not display when the task bar item is selected after performing a reload.
557574	For the Mfib ping type of tests, the TimeOut maximum value is 100. The TimeOut maximum value is 10 for 7x50 Release 7.0 R1.
557589	Changes to the Routing Policy Statement Actions and Default Actions not refreshed in the 5620 SAM.

PTS # (duplicate)	Description
557621	TopologyMisconfigured alarm should not be raised for a empty Epipe Service.
557647	Alarm missing when network element software is downgraded. <b>Note:</b> The fix for 557647 was removed from the 5620 SAM Release 7.0 R3 code, as it was reported that the new alarm was not being correctly reported for all NE types.
557650	An InvalidDataException is generated when trying to create Spoke SDP Bindings on IES service using a redundant interface.
557674	DatabaseArchivedLogNotApplied was not cleared after standby database changed to an operational state.
557857	Requirement to reduce the field length for the Description property on a Path/Channel from 160 to 80. This reduction is temporary until synchronization of the SNMP and CLI on the 7750 node.
557867	Routing Tree not refreshed with network interface IP address.
557896	Unmanaged NE objects and links are displayed in the map after removing physical links that existed before an upgrade to 7.0 R1.
557901	Client IP address is not refreshed in the session list if a client reconnects to a JMS session from a new address.
557919	Extra Turn Up/Shutdown buttons for Interface table under RIP Site, PIM Site, and RIP Group Manager.
557924	VLAN Uplinks will now be created/deleted when Discovered Links are discovered by the 5620 SAM.
557967	Disabled IPCP tab for lpipe L2 Access Interface form when created via xml request
558037	List shows incorrect filtered result after search.
558214	For QinQ Encapsulation, MC sync VLAN ranges such as 333.0-333.4095 is not valid. The range values cause a deployment error.
558223	The management IP field on the general tab of network element properties does not always display accurate information.
558305	Requirement to change the default save time for the Ems logs.
558306	Statistics dbf files do not compress when the statistics are purged.

### Release 7.0 R1 critical fixed problems

There are no critical problems fixed by this release.

### Release 7.0 R1 major fixed problems

PTS # (duplicate)	Description
524180	Trap processing stops and a NegativeArrayBound condition occurs while processing octet strings. Server restart required.
542545	5620 SAM clients take a long time to switch to standby server when main server loses connectivity to the database.

PTS # (duplicate)	Description
545423	DOT3-OAM-MIB implemented under wrong mib-2 sub-tree.
545915	SNMP trap processing stops due to an internal server exception. A 5620 SAM server restart is required.
547284	The 5620 SAM Planning Guide should clarify that 8 GB of RAM is required on a collocated 5620 SAM server.
550566	Oracle sessions may be exceeded due to the current method used to auto-tune the 5620 SAM to server architecture (number of processors) at install time.
550571	Span of Control not enabled on discovery rule after database upgrade.
551352	Site Name and Site ID were not renamed in statistics recodes after a network element was renamed.
552255	Service status mismatch between the 5620 SAM and NE.
553480	Auto-login to T5C using + or & in the name fails.
553848	Node upgrade from the 5620 SAM sometimes fails using SCP.
553822	Server error during attempt to add two SAPs on the same Epipe service site.
553936	Installation of the 5620 SAM using multiple interfaces is not operating as intended. The clients cannot login due to an incorrectly identified auxiliary server.
554094	Names for ATM interfaces is not unique when the port refers to a bundle or APS bundle.
554978	The 5620 SAM is sending sych boot-env requests for 7450 ESS nodes.
555359	Service components (INTFs, SDPs) not discovered.
555634	Error opening element manager on a client T5C. <b>Note:</b> The 5620 SAM Release 7.0 R1 software contains a new issue related to opening the element manager on client T5C. Please see PTS 557547 in section 4.1 for more information.
564472	Use of service templates with a large number of services causes the 5620 SAM to become unresponsive.
569618	One-minute gap between OSS transactions.

### Release 7.0 R1 minor fixed problems

PTS # (duplicate)	Description
522784	The Equipment alarm with failure reason "Software Version Mismatch" is not cleared when the standby is upgraded to the same version as Active.
523981	7250 Management port is treated as access port. The port must not be used in a service.
536910	Interface status is not updated in a VPRN.
541514	TiRUnsupportedOperationException exception received when a user tries to add a bundle member to an IMA group.

PTS # (duplicate)	Description
543020	Disabling of the user deletion permission will also disable the creation permission, regardless of the creation permission setting.
544058	Statistics real-time plotter is not disabled for accounting statistics.
544062	The file browser uses the primary IP address even though the secondary IP is chosen as the active management IP.
544064 (554407)	Unable to use an in-band IP address (system IP) to connect the file browser.
544163	Connectivity loss detection took an unacceptably long time to timeout before database failover was initiated.
546002	5620 SAM backup failure due to ORA-00600 internal errors
546095	Requirement for limiting user access permissions to modify privileges, only. Deletion privileges would not be supported for the user.
554243	Cannot configure Pool Name=no pool for Network/Shared Queue policies.
554673	5620 SAM-created policy appears as N/A.
555313	Unable to use an in-band IP address (system IP) to connect the file browser.
557359	A child window is linked to a closed parent window and changes to the child cannot be applied.

## 4 Outstanding Problems

This section lists outstanding problems in this release that customers must be aware of before deploying the release into a live or lab environment. For information about all outstanding problems, contact your Alcatel-Lucent technical support representative. The following table defines the priority levels used in the problem summaries.

Priority level	Definition
Critical	This priority refers to problems that affect service, with no acceptable workaround available.
Major	This priority refers to problems that affect service, with an acceptable workaround available.

### 4.1 5620 SAM outstanding problems

#### **Release 7.0 critical outstanding problems**

There are no critical outstanding problems for 5620 SAM Release 7.0.

**Release 7.0 major outstanding problems**

PTS #	Description	Workaround
553901	For IES/VPRN L3 Access Interfaces or VPRN IPsec Interfaces which have been assigned an IPsec Group Connection Point for the Terminating Port (SAP), the "Underlying Port State:" field under the interface properties "Port" tab incorrectly states "Not Equipped".	The "Underlying Port State:" having a status of "Not Equipped" does not affect functionality of the IPsec-based L3 Access Interfaces or IPsec Interfaces.
557011	The 7.0 SR routers do not send the correct TestFailed trap when an ANCP OAM L2 Loopback test fails (see DTS 80631). SAM is unaware that the test has failed even if the "Trap Generation: Test Failure" option is set. The deployed test remains in the "Pending" state until it times out.	Test executions stuck in the "Pending" state can be cleared from the STM "Deployed Test" manager.
557455	The 5620 SAM will not be able to discover a 7250 node if it is swapped out from an ES to ESA chassis (or ESA to ES chassis).	The 7250 old chassis will need to be deleted from SAM and rediscovered as a new NE. All configurations on the NE will be retained and rediscovered into SAM.
557547	The T5C Element manager cannot be launched from the 5620 SAM.	Launch the T5C Element Manager from the node web interface. For more information, please see the T5C documentation.
565415	Deleting a VPRN/VPLS address from the VPRN/VPLS form is not supported.	VPRN/VPLS address can be deleted from the VPRN/VPLS site form or the L3/L2 access interface form.
566010	When performing a global policy audit for any accounting policy type, with 'Alarm All Differences' equal to enabled, a TemplateInconsistencyAlarm will be generated against all pre-7.0R1 local definitions, even if no differences exist between the global and local definitions.	Perform the Global audit with 'Alarm All Differences' equal to disabled, located under the General tab of the policy audit display.  This audit will ignore the global and local differences that exist because the specific chassis type or specific NE version does not support the parameter. This type of audit works correctly.
566171	NE backups and software download operations can be configured to use all available deployment workers such that other NE deployments are blocked.	Multiple NE backup policies and software upgrade policies should not be scheduled to occur at the same time.
566295	For a network element with subscriber authentication policies configured and applied to Access Interfaces or Group Interfaces, SubscrAuthPolicyMisconfigured alarm is occasionally raised, when the NE is discovered, even if configuration is correct.	Clear the SubscrAuthPolicyMisconfigured alarm.

PTS #	Description	Workaround
566316	STM tests may not be created correctly or could generate deployment errors if the threshold values defined in the Test Policy use values greater than 2147483 milliseconds. This problem exists for STM Test Suites that include test entities selected from Release 7.0 SR routers.	Ensure that the threshold values are set to 2147483 milliseconds or less.
568067	For 7210 SAS-E and 7210 SAS-M, Slope Policy Queue group values may not be retained for upgrades to 5620 SAM Release 7.0 R5. This problem only applies to the management of 7210 NEs. New installations of 5620 SAM Release 7.0 R5 do not have this problem.	Do not use 7210 Slope Policies that were upgraded to 5620 SAM Release 7.0 R5. As an alternative, create a new policy using 5620 SAM Release 7.0 R5.
568114	For ICMP Ping and ICMP Trace NE schedulable test suites, the Target IP Address such as 0:0:0:0:0 may be invalid if you click more than once on the "Generate Tests" button.	Validate that the Target IP address is valid, and avoid clicking the "Generate Tests" button more than once after generating the test.
568877	Correction to the redundant upgrade information in the <i>5620 SAM/ 5650 CPAM Installation and Upgrade Guide</i>	<p>When upgrading a redundant 5620 SAM system on Solaris, before you reboot the DB server, you should disable the proxy startup script so that the proxy is not restarted after reboot. This action prevents possible failure of the standby database activation.</p> <p>===</p> <p>Disable the database proxy</p> <p>-- Enter the following at the CLI prompt to change to the /etc/rc3.d directory:</p> <pre># cd /etc/rc3.d</pre> <p>-- Enter the following at the CLI prompt to disable the Oracle proxy daemon by renaming it:</p> <pre># mv S965620SAMOracleProxyWrapper inactive.S965620SAMOracleProxyWrapper</pre> <p>====</p>
572670	In a 5620 SAM redundant configuration, after restoring a database from a backup, the 5620 SAM GUI will incorrectly report that the standby database status is "Up".	After restoring the 5620 SAM database in a redundant configuration, you must complete a database reinstantiation to re-establish database redundancy. The 5620 SAM GUI updates the standby database status with the correct information after completing the reinstantiation.

## 5 Installation and upgrade notes

This section lists installation and upgrade information for Solaris and Windows operating systems.

### 5.1 Installation and upgrade notes

Release	Notes
All releases	<b>Upgrades:</b> The upgrade of the Alcatel-Lucent 5620 SAM software components in a network requires a thorough understanding of 5620 SAM system administration and operating system-specific requirements. The upgrade procedure must be planned, documented, and tested in advance, on a lab system that is representative of the target live network. Contact your Alcatel-Lucent support representative to assess the upgrade requirements and for your network implementation of the 5620 SAM software. Alcatel-Lucent offers an upgrade service which should be engaged for upgrades.
	<b>OS languages:</b> Only English versions of the platform operating systems have been tested.
	<b>Network sizing:</b> Alcatel-Lucent has prepared network sizing guidelines to help you plan for CAPEX purchases necessary to install and run the 5620 SAM software applications. The <i>5620 SAM Planning Guide</i> describes network planning considerations to help determine the types of PCs or workstations required to manage devices and services, and lists any deployment recommendations or restrictions.
	<b>XML object model:</b> XML object model changes, including deprecated properties and methods, are available in the SchemaChanges70.html file. For a list of changes to the 5620 SAM-O open interface release over release, see the text file available from the product DVD-ROM. The SchemaChanges70.html file is available from an installed 5620 SAM client in the <installation_directory>\client\nms\distribution\User_Documentation\5620_SAM-O_documentation/XML_Reference.
	<b>JMS release version:</b> You must verify JMS release compatibility when you install or upgrade a new release of the 5620 SAM software.
	<b>samOss.jar version:</b> The OSS client must use the correct the samOss.jar that corresponds with the version of the 5620 SAM. See the 5620 SAM Open Interfaces OSS Interface Developer Guide for details.

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## 5.2 5620 SAM Solaris installation and upgrade notes

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The *5620 SAM Planning Guide* contains technical information related to the Solaris deployment of 5620 SAM Release 7.0.

The 5620 SAM Release 7.0 is supported on Solaris 10.

The 5620 SAM Release 7.0 is supported on SPARC Solaris workstations available from Sun Microsystems.

The 5620 SAM Release 7.0 is supported on Sun Microsystems Intel-based workstations running Solaris x86.

Alcatel-Lucent has tested the 5620 SAM with the following Solaris versions and patches:

- Solaris 10 – 01/06 s10s\_u1wos\_19a, 11/06 s10s\_u3wos\_10 and 8/07 s10s\_u4wos\_12b.
- Sun Microsystems patch 120068-02 (SPARC)/120069-02 (x86) (Solaris 10 Telnet daemon vulnerability). Alcatel-Lucent recommends the installation of patches 120068-02 and 120068-02 on all Solaris 10 platforms to prevent unauthorized root access.

The following SSH packages have been added to the minimum Solaris requirements for the 5620 SAM:

- SUNWsshcu
- SUNWsshdr
- SUNWsshdu
- SUNWsshhr
- SUNWsshshu

The version of Oracle installed with 5620 SAM Release 7.0 requires Solaris OS patch 123809-02 for SPARC platforms or 126837-01 for AMD platforms. It is acceptable to use Sun patches that obsolete these required patches.

Alcatel-Lucent will support 5620 SAM running with additional patches, as recommended by Sun Microsystems.

A recently detected compatibility issue between the JVM process used by the 5620 SAM server and a Solaris patch can result in the 5620 SAM server process not starting due to insufficient memory. See Section 4.1 for more information.

A Solaris 10 X86 issue can prevent the 5620 SAM from starting or installing. Please refer to Product Alert 3969 or PTS 569120. Product Alerts are available through the Alcatel-Lucent Customer Support Center at <http://www.alcatel-lucent.com/myaccess>.

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## 5.3 5620 SAM Windows installation notes

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The *5620 SAM Planning Guide* contains technical information related to the Windows deployment of 5620 SAM Release 7.0.

Windows is supported for the 5620 SAM database, server, and clients in a non-redundant configuration, only. 5620 SAM Auxiliaries are not supported running on Windows.

5620 SAM 7.0 is supported on Windows 2000, Windows 2003, and Windows XP.

Alcatel-Lucent recommends the installation of the Microsoft Windows KB951312 hotfix on the 5620 SAM database server. A 5620 SAM database upgrade fails if the hotfix is not installed.

The 5620 SAM 7.0 GUI client is supported on Windows Vista Business and Ultimate editions.

## 6 Deprecation notices

This section provides advance notice of planned feature and support deprecation. Alcatel-Lucent plans to discontinue support for the following components:

- 5620 SAM Release 6.x was the first release that implemented static shelf drawings for newly supported NEs. The trend toward static drawings will continue, and in a future release of the 5620 SAM, the Equipment Manager will be removed and all functionality provided by it will be moved to individual equipment properties forms.
- 5620 SAM Release 7.0 is the last release to support the LSP Topology map feature.
- 5620 SAM Release 7.0 is the last release to support Java Release 5.0 for the 5620 SAM-O.
- The following jars are deprecated and will be removed in a future release. samOss.jar should be used to connect to the 5620 SAM server:
  - samOssJBoss.jar
  - samOssAnyServer.jar
- The SchemaChanges70.html file on the product DVD-ROM contains information on deprecated XML API content. The file is available from an installed 5620 SAM client in the <installation\_directory>\client\nms\distribution\User\_Documentation\5620\_SAM-O\_documentation/XML\_Reference.
- 5620 SAM Release 8.0 is the last release to support Sun Microsystems T-series servers hosting either a 5620 SAM server or database.
- 5620 SAM Release 8.0 is the last release to support two CPU core platforms, such as the v240/v245/v215/v210, for live deployments of the 5620 SAM server and database.

Contact Alcatel-Lucent Support for information on deprecation intent and assistance with network planning. For more information on planned feature and support deprecation, see the *5620 SAM Release Description*.

## 7 Release history

### 7.1 Product loads

Load	Date
5620 SAM Release 7.0 R1	April 26, 2009
5620 SAM Release 7.0 R2	May 27, 2009
5620 SAM Release 7.0 R3	July 3, 2009
5620 SAM Release 7.0 R4	September 16, 2009
5620 SAM Release 7.0 R5	November 4, 2009
5620 SAM Release 7.0 R6	December 16, 2009
5620 SAM Release 7.0 R7	May 19, 2010

### 7.2 RN release history

Issue	Date	Reason for re-issue
5620 SAM Release 7.0 R7, Issue 01	May 19, 2010	—
5620 SAM Release 7.0 R7, Issue 02	May 26, 2010	Added PTS 572038 to closed issues

## 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 the following URL and click on the Alcatel-Lucent Global Support link, <http://www.alcatel-lucent.com/support>.

## 9 Product documentation

### 9.1 Customer user documentation

You can obtain the 5620 SAM Release 7.0 documentation from the 5620 SAM Release 7.0 software installation.

A wide range of documents, including product manuals and documentation updates, are accessible from the Alcatel-Lucent Customer Support Center link at <http://www.alcatel-lucent.com/myaccess>.

Load	Support Documentation
5620 SAM Release 7.0 R7	5620 SAM  5650 CPAM Installation and Upgrade Guide, Release 7.0 R7 3HE 04549 AAAG Ed. 01
	5620 SAM User Guide, Release 7.0 R7 3HE 04550 AAAF Ed. 01
	5620 SAM Statistics Management Guide, Release 7.0 R7 3HE 04551 AAAF Ed. 01
	5620 SAM Parameter Guide, Release 7.0 R7 3HE 04552 AAAF Ed. 01
	5620 SAM Open Interfaces OSS Interface Developer Guide, Release 7.0 R7 3HE 04553 AAAF Ed. 01
	5620 SAM Troubleshooting Guide, Release 7.0 R7 3HE 04554 AAAF Ed. 01
	5620 SAM System Architecture Guide, Release 7.0 R7 3HE 04555 AAAF Ed. 01
	5620 SAM Routine Maintenance Procedures Guide, Release 7.0 R7 3HE 04556 AAAF Ed. 01
	5650 CPAM Release Notice, Release 3.0 R7 3HE 04780 0006 Ed. 01
	5620 SAM Planning Guide, 3HE 04854 AAAH TQZZA Ed. 01
	5620 SAM Network Element Compatibility Guide, 3HE 05985 AAAA TQZZA Ed. 84 Version 1.84
	5620 SAM Release Description, Release 7.0

### 9.2 Customer feedback

We value your feedback. Please direct questions or comments about Alcatel-Lucent documentation to:  
[documentation.feedback@alcatel-lucent.com](mailto:documentation.feedback@alcatel-lucent.com).

## 10 Glossary

Term	Expansion
5620 SAM	5620 Service Aware Manager
5620 SAM-O	5620 Service Aware Manager Open Interface
5650 CPAM	5650 Control Plane Assurance Manager
7210 SAS-E	7210 Service Access Switch - Ethernet
7210 SAS-M	7210 Service Access Switch - MPLS
7250 SAS	7250 Service Access Switch
7250 SAS-ES	7250 Service Access Switch-Enhanced Services
7250 SAS-ESA	7250 Service Access Switch Enhanced Services Advanced
7450 ESS	7450 Ethernet Service Switch
7705 SAR	7705 Service Aggregation Router
7710 SR	7710 Service Router
7750 SR	7750 Service Router
GNE	Generic network element
7701 CPAA	7701 Control Plane Assurance Appliance
OS 6400	OmniSwitch 6400
OS 6850	OmniSwitch 6850
OS 6855	OmniSwitch 6855
OS 9600/9700/9800	OmniSwitch 9600/9700/9800
9500 ANSI MPR	9500 American Standard Microwave Packet Radio
9500 ETSI MPR	9500 European Standard Microwave Packet Radio