



# Alcatel-Lucent Security Management Server

SMS | 9.2.311

RELEASE NOTES

## Legal Notice

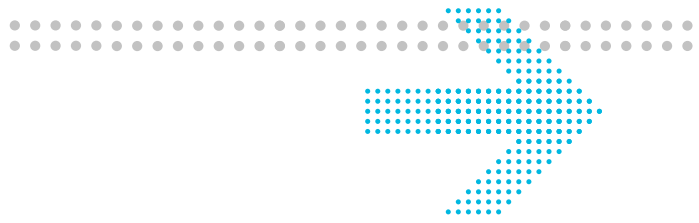
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### Limited warranty

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# About this document



## Purpose

This document describes the feature content for the Release 9.2 patch of the Alcatel-Lucent Security Management Server. Included in this document are brief descriptions of each new feature, resolved issues, known issues, and installation and upgrade notes specific to this release.

## Reason for reissue

The following table shows the revision history of this document.

Issue number	Date of issue	Description of changes
1	09/17/2009	First issue of this patch release notes document.

## Supported systems

The following Alcatel-Lucent VPN Firewall Brick™ Security Appliance models are supported by the current Alcatel-Lucent Security Management Server (SMS) release:

- VPN Firewall Brick™ Model 20 Security Appliance
- VPN Firewall Brick™ Model 50 Security Appliance
- VPN Firewall Brick™ Model 80 Security Appliance
- VPN Firewall Brick™ Model 150 Security Appliance
- VPN Firewall Brick™ Model 350 Security Appliance
- VPN Firewall Brick™ Model 500 Security Appliance
- VPN Firewall Brick™ Model 700 Basic, VPN, and SFP Security Appliance
- VPN Firewall Brick™ Model 1100/1100A Security Appliance
- VPN Firewall Brick™ Model 1200 Basic and HS Security Appliance

## How to use this document

This document contains new features, resolved issues, known issues and installation information pertinent to Release 9.2.

## Safety information

For safety information on installing and upgrading SMS software please see the *Alcatel-Lucent Security Management Server (SMS) Release 9.2 Installation Guide*.

For safety information on hardware, please see the safety instructions in the VPN Firewall Brick model user's guides.

## Conventions used

This document uses the following typographical conventions:

Appearance	Description
<i>Italicized text</i>	<ul style="list-style-type: none"><li>• File and directory names</li><li>• Emphasized information</li><li>• Titles of publications</li><li>• A value that the user supplies</li></ul>
<b>graphic user interface text or key name</b>	<ul style="list-style-type: none"><li>• Text that is displayed in a graphical user interface or in a hardware label</li><li>• The name of a key on the keyboard</li></ul>
<b>input text</b>	Command names and text that the user types or selects as input to a system
output text	Text that a system displays or prints

## Technical support

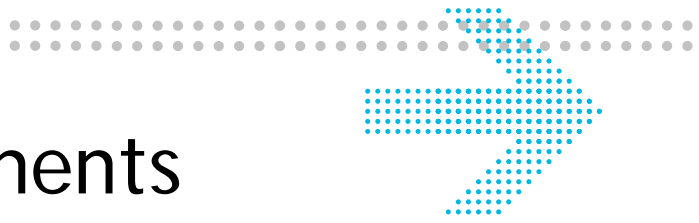
For technical support, contact your local Alcatel-Lucent customer support team. See the Alcatel-Lucent Support web site <http://alcatel-lucent.com/support/> for contact information.

## How to order

To order Alcatel-Lucent documents, contact your local sales representative or use the Online Customer Support Site (OLCS) web site <https://support.alcatel-lucent.com/portal/olcsHome.do>.

## How to comment

To comment on this document, go to the [Online Comment Form \(http://www.infodoc.alcatel-info.com/comments/\)](http://www.infodoc.alcatel-info.com/comments/) or e-mail your comments to the Comments Hotline ([comments@alcatel-lucent.com](mailto:comments@alcatel-lucent.com)).



# 1 Release components

## Overview

### Purpose

This chapter describes software and documentation deliverables included in this release.

### Contents

This chapter covers these topics.

<a href="#">Software deliverables</a>	1-1
<a href="#">How to obtain software</a>	1-2
<a href="#">Document deliverables</a>	1-2
<a href="#">To obtain documentation</a>	1-2

## Software deliverables

### Software included in this release

The Release 9.2 software includes:

- Alcatel-Lucent Security Management Server for Windows 2000, Windows XP, Windows 2003, or Windows Vista.
- Alcatel-Lucent Security Management Server for Solaris 8, 9, or 10.
- SMS 9.2 Software Documentation
- Remote Navigator
- SNMP MIBs

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## How to obtain software

For software downloads, please logon to your account at <https://vpn-firewall-brick.alcatel-lucent.com/>.

## Document deliverables

### Documentation available for this release

Table 1-1 Documentation list

Document ID	Document title
260-100-017R9.2	<i>Alcatel-Lucent Security Management Server (SMS) Release 9.2 Administration Guide, Issue 4</i>
260-100-018R9.2	<i>Alcatel-Lucent Security Management Server (SMS) Release 9.2 Installation Guide, Issue 2</i>
260-100-016R9.2	<i>Alcatel-Lucent Security Management Server (SMS) Release 9.2 Policy Guide, Issue 5</i>
260-100-019R9.2	<i>Alcatel-Lucent Security Management Server (SMS) Release 9.2 Reports, Alarms, and Logs Guide, Issue 3</i>
260-100-022R9.2	<i>Alcatel-Lucent Security Management Server (SMS) Release 9.2 Technical Overview, Issue 1</i>
260-100-020R9.2	<i>Alcatel-Lucent Security Management Server (SMS) Release 9.2 Tools and Troubleshooting Guide, Issue 4</i>

## To obtain documentation

Alcatel-Lucent SMS product documentation is available to customers through OnLine Customer Support (OLCS).

To access documentation:

1. Go to <https://services.support.alcatel-lucent.com/services/vpnfirewallbrick/>.

**Note:** If you do not already have a service contract account you will be prompted to create an account.

2. Select **Register for Access** on the right hand side of the page.



- 
3. Select **Customer**
  4. Select **Yes, I accept the Terms of use**
  5. Select **Next**
  6. Enter your name and contact information
  7. Select **Next**

**Note:** The login ID and password is separate from the login ID and password used to access the registration website. The account creation process can take 1 to 12 hours. A temporary login ID and password will be emailed once the account is approved.

To navigate to OLCS:

8. Go to <https://support.alcatel-lucent.com/portal/productIndexByCat.do>.
9. Select **Product Index**
10. Select the alphabetic section for the product or solution for which you require documentation. For example, for VPN Firewall, select **U-Z** and scroll to the **V** section to select **VPN Firewall Brick**.
11. To obtain manuals, select **Manuals and Guides**. To obtain release notes, select **Release Information**.

**Note:** Online product manuals are accessible from the SMS GUI.





# 2 New features

## Overview

### Purpose

This chapter provides new feature descriptions, functionality, and enhancements included in the Release 9.2 patch.

### Contents

This chapter covers these topics.

<a href="#">New features</a>	2-1
<a href="#">Functionality</a>	2-2
<a href="#">Enhancements</a>	2-2

## New features

### Support for the new Brick 700 SFP model

Support is added for the SFP model of the Brick 700 in the Brick Editor. This model has 2 gigabit copper ports and 6 gigabit SFP ports.

**Note:** For 9.2 releases, the new second generation Model 700 Brick device (cool-grey box) can only be managed and supported by the 9.2.311 patch release or subsequent 9.2 releases of the Alcatel-Lucent Security Management Server (SMS) application.

If you are replacing an existing first generation Model 700 Brick device (black box) with a new Model 700 Brick device (cool-grey box) you will need to re-bootstrap the Brick with 9.2.311 (or later) using the **mkfloppy** procedure to create a new floppy or USB drive, or using the floppyless bootstrap method to load a new boot image via the Brick serial port.

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For details about creating Brick boot media and activating a Brick device, refer to the *Configuring and Activating an Alcatel-Lucent VPN Firewall Brick™ Security Appliance* chapter in the *SMS Administration Guide*.

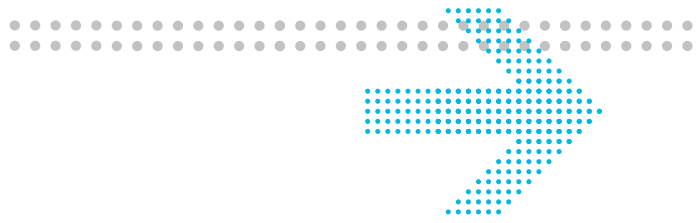
**Note:** If the Brick 700 is directly connected to a device other than a switch or router and the speed is forced to 100 Mbps or 10 Mbps, then a CAT-5 crossover cable is required.

## Functionality

No new installation keys are required to enable the new functionality delivered in this release.

## Enhancements

No enhancements are included with this release.



# 3 Test results

## Overview

### Purpose

This chapter provides information on test results.

### Contents

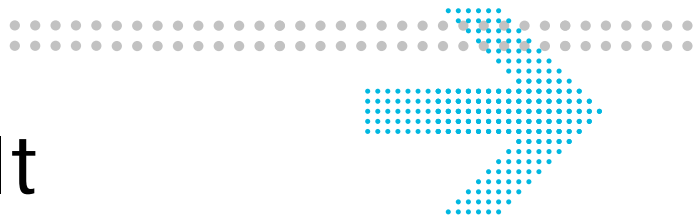
This chapter covers these topics.

<a href="#">Test results</a>	3-1
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## Test results

As of 09/17/2009, this Release 9.2 patch has passed testing and has been released for production.





# 4 Changes to fault management, ports, protocols, and parameters

## Overview

### Purpose

This chapter describes fault management changes (interfaces, alarms, and messages), port and protocol, and system parameter changes in this release.

### Contents

This chapter covers these topics.

<a href="#">Interface changes</a>	4-1
<a href="#">Alarm changes</a>	4-1
<a href="#">Message changes</a>	4-2
<a href="#">Port changes</a>	4-2
<a href="#">Protocol changes</a>	4-2
<a href="#">System parameter changes</a>	4-2

## Interface changes

### Changes to Northbound Interfaces

No changes to northbound interfaces are included with this release.

### Changes to Southbound Interfaces

The SMS has no southbound interfaces.

## Alarm changes

No alarm changes are included with this release.

## Message changes

No message changes are included with this release.

## Port changes

No port changes are included with this release.

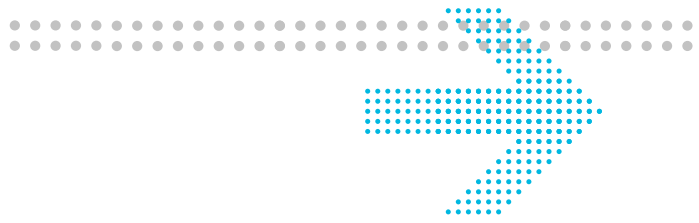
## Protocol changes

The SMS CLI protocol commands **add brick**, **list brick**, and **save brick** are modified to include **brick700B** as an allowed value in the **brickType** field to represent the new Brick model 700 SFP.

## System parameter changes

No system parameter changes are included with this release.





# 5 Resolved issues

## Overview

### Purpose

This chapter describes the resolved issues in this release.

### Contents

This chapter covers these topics.

<a href="#">Resolved issues</a>	5-1
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## Resolved issues

The following tables include resolved issues associated with security issues and other fixes for this release. The resolved issues are listed with an internal ID number, title, and a description of what has been fixed.

### Security related resolved issues

Table 5-1 Security related resolved issues

Internal ID	Title	Description of issue
0923537	A vulnerability issue exists in the IKEv2 implementation. Exploiting the problem may cause the Brick to run at 100% CPU and cause a Denial of Service (DoS) attack.	The IKE library does not perform sufficient rigorous checks on the validity of IKEv2 packets received from the network. This allows the possibility of certain specially crafted payloads to be handled even though the payload is not valid and can cause the DoS attack.

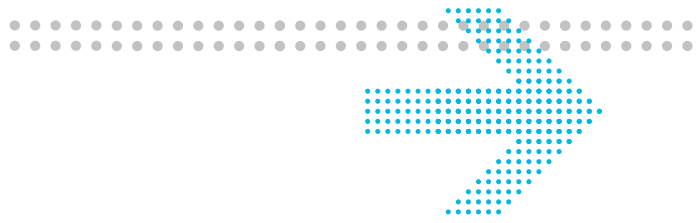
## Other resolved issues

Table 5-2 Other resolved issues

Internal ID	Title	Description of issue
0822848	The SMS LogViewer displays individual record rows in 12 hour format making AM/PM hard to distinguish.	The SMS LogViewer displays records in a 12 hour format rather than a 24 hour format making it hard to distinguish the record as AM or PM.
0823102	The SMS CLI sends an N7044 error when attempting to add or save a Brick.	When attempting to add or save a Brick, the SMS CLI sometimes sends an error that more than one VLAN partition named *Default with VLANID=* exists.
0823152	When attempting to delete a Brick, a something depends on this error message is displayed.	If ping failover entries are configured in a Brick and later an attempt is made to delete the Brick, a something depends on this error message is displayed.
0823208 0923231	A memory leak occurs with IKEv2 clients with certificates.	A memory leak occurs with IKEv2 clients with certificates. This occurs only if the certificate is from an intermediate CA.
0923230	Occasionally, the software cannot be installed from the floppy/USB on the Models 700 or 1200.	Occasionally, the installation process fails.
0923249	Fix for <i>MakeBrickFloppy.exe</i> used in make Brick boot media remote packaged files.	The fixes for <i>makebrickfloppy.exe</i> for creating brick boot media are: <ul style="list-style-type: none"> <li>• File copying error with white 512 MB USB drives</li> <li>• Permissions error when creating brick boot media</li> </ul>
0923276 0923713	The Status Monitor may display an incorrect Standby Brick version.	The Status Monitor can display an incorrect Standby Brick version in a mixed environment where the SMS software and some Bricks have been upgraded to 9.2 (or later), but some other Bricks are still running an older version of software (9.0). In a case like this, the older Bricks may display a Standby version of 9.2.nnn. (They should indicate unavailable because the older software did not support this value.)

Internal ID	Title	Description of issue
0923285	The <i>makebrickfloppy.exe</i> file may fail with access denied in Microsoft Vista.	Using remote packaged files (for example, <i>makebrickfloppy.exe</i> ) for creating Brick boot media on Vista may result in Access Denied errors.
0923347	The SMS Navigator can hang in the Brick Editor if the type of Brick is changed to one with fewer ports.	The SMS Navigator can hang in the Brick Editor if the type of Brick is changed to one with fewer ports and the <b>Preferred State-Sharing Port</b> (in the Failover tab) that had been chosen prior to the change no longer exists.
0923358	<b>Password Expiration Options</b> are not working properly.	If <b>Password Expiration Options</b> is set to request a new password at a specific interval, instead, a prompt displays for a new password each time an admin logs in. If the options are set for a certain number of logins, it works until prompted to change it, and then it prompts for the change every time thereafter.
0923453	A panic may occur processing a non-valid SIP response.	The SIP application filter can panic processing SIP responses with data that is not valid.
0923526	The Brick panics when used in a failover pair with a 9.3 or later version and a SIP application filter.	The Brick panics when used in a failover pair with a 9.3 or later version and a SIP application filter.
0923570	Apply with nested hostgroups fails.	When performing an apply for the Brick B2000 error messages are generated.
0923686	The GUI improperly allows a link and speed to be set below 1 Gbps for GigabitSFP ports.	In the <b>Mode</b> field of the <b>Brick Ports Editor</b> , administrators should not be able to force link and speed to anything below 1 Gbps for GigabitSFP ports.





# 6 Known issues

## Overview

### Purpose

This chapter describes known issues and workarounds (if available) for this release.

### Contents

This chapter covers these topics.

<a href="#">Known issues and workarounds</a>	6-1
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## Known issues and workarounds

The following are known issues and workarounds (if available) in this release.

Table 6-1 Known issues and workarounds

Fault ID	Title	Description of issue	Workaround
0620266	Multi-site SMS issues	Under load conditions, sometimes the SMS does not allow any more administrators to login and/or the GUI will hang if an administrator tries to open a new Status Monitor window.	Restart the SMS services.
0620263		If there is a flood of console alarm messages (e.g. when the loss of a major communications link causes a lot of Brick device Lost alarms), the links between SMS machines or Compute Servers may go down temporarily.	None. Links are automatically re-established.
0721637		Loss of Database synchronization puts the Multi-Site environment in a hung state. The Self-Repair Database feature alleviates a lot of such situations, however, some still exist.	Stop services on all Secondary SMSs. Do a manual DbSetup of all secondary SMSs and then start services.
0823150		While compiling a policy or policies, the secondary SMS will occasionally hang.	Stop and restart the SMS services.
0620264	Database process memory growth	Adding and/or deleting a large number of Brick devices may cause the database process memory to grow and exceed its limit.	Increase the Database Max Heap size in the Tunable Parameters in the Configuration Assistant. Restart the SMS services if the database process exceeds its memory limit.
0822343	Existing GTP v1 application filters are not upgraded when the SMS is upgraded to this patch.	When a GTPv1 application filter is upgraded to 9.2.311 the GTP application filter may not display the new fields added to support GTPv1 Release 6.	Create a new GTPv1 application filter.
0822865	Possible Brick Panic	Rarely, the Brick panics and reboots after a failover when QoS is enabled.	None

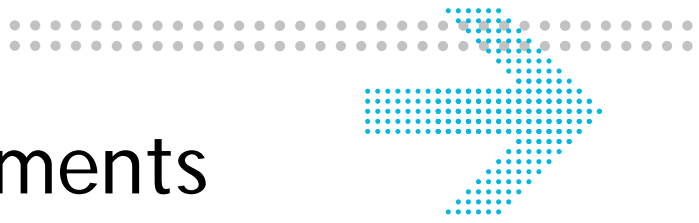
Fault ID	Title	Description of issue	Workaround
0823054	SMS administrators configured to use RADIUS authentication cannot change passwords of other administrators.	SMS administrators configured to use RADIUS authentication cannot change passwords of other administrators or users through the administrator or user editors because a bug causes the Admin Key dialog box to be gray during the process of unlocking the navigator.	None
0823058	Potential Brick Panic when BPG is enabled.	The Brick panics if the BPG feature is enabled and <b>Authorize Return Channel</b> is not enabled for GTP packets processed by the BPG.	Ensure that <b>Authorize Return Channel</b> is enabled for GTP prior to enabling the BPG feature.
0923581 0923629	The SMS freezes with flood of Alarm Code alarms.	Alarm Code triggers monitor the session log and are disabled by default because they can degrade the performance of the SMS. They can be enabled via a checkbox in the Configuration Assistant. If rules that match a lot of traffic are configured with auditing, the session log may become very busy, and if any of these rules are configured with Alarm Code triggers the SMS may become bogged down processing the alarms and eventually freeze.	If SMS freezes, disable Alarm Code in the Configuration Assistant and restart services.  Reduce or eliminate rule auditing and alarm codes in rules. Use the Sleep Period field in the trigger to throttle the frequency of the alarms before re-enabling.
0923623	MAC addresses remain in an unavailable state.	MAC addresses that are defined as static are marked as obsolete when a link goes down. When the link comes back up they are not immediately usable and only become usable when the first packet is from the MAC address. If such a packet is never seen, then the Brick would have to be rebooted to store traffic flowing to that address.	Reboot the Brick.
0923624	<b>Account Name</b> , <b>Syslog Host</b> , and <b>Syslog Port</b> allow commas.	The <b>Alarms</b> parameters <b>Account Name</b> , <b>Syslog Host</b> , and <b>Syslog Port</b> of the <b>Configuration Assistant</b> are each supposed to accept a single value. However, the GUI erroneously allows these fields to accept a list of values.	Do not use commas in these fields.

---

Fault ID	Title	Description of issue	Workaround
0923633	Link aggregation may fail to send traffic on all the aggregated ports	When many gigabit ports are aggregated, if traffic is sent on some of the aggregated ports and then one or more of these aggregated ports are disconnected, traffic will continue to be sent on the disconnected ports, causing traffic to fail. If new aggregated ports that were previously disconnected are connected, traffic will not be sent on these ports.	Perform a Brick <b>Apply</b> and clear the cache.
0923791	Forcing link speed causes the Brick to failover.	When a Brick port is changed from 1 Gig to 100 Mb/sec or 10 Mb/sec, the active Brick changes the speed to the configured value, but the standby Brick may maintain its gig link. When this happens, the active Brick yields to the standby due to inferior link and causes a Brick failover to occur. This speed mismatch persists on the active Brick until it is rebooted.	Reboot the active Brick after the failover.

**Note:** These issues are not new to this release, they are existing issues that have been discovered.





# 7 System requirements

## Overview

### Purpose

This chapter describes software and hardware requirements.

### Contents

This chapter covers these topics.

<a href="#">Software requirements</a>	7-1
<a href="#">Software licensing keys</a>	7-2
<a href="#">Hardware requirements</a>	7-2
<a href="#">Compatibility restrictions</a>	7-3
<a href="#">Third-party or other hardware/software requirements</a>	7-3

## Software requirements

Microsoft® Windows 2000 Pro SP1, SP2, SP3, and SP4, XP Pro SP1, SP2, and SP3, 2003 Server SP1 and SP2, Vista SP1 and SP2

- NTFS file system
- IPv4

Solaris 8, 9, and 10

- IPv4

**Note:** Addressing the SMS with Internet Protocol Multiple Path (IPMP) multipath mode addresses is not supported. Failover mode addresses are supported.

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## Software licensing keys

For information on how to register a software license key and obtain an SMS installation key, please see the *Alcatel-Lucent Security Management Server (SMS) Release 9.2 Installation Guide*.

## Hardware requirements

The following minimum hardware specifications for Windows and Solaris are required to run the SMS software.

**Table 7-1 Windows minimum requirements**

Type	Minimum Requirement
Processor	500 MHz Pentium Processor or greater
RAM	512 MB or greater
Swap Space	Greater than or equal to RAM
Fixed Storage	4 GB or greater HDD
Removeable Storage	CD-ROM Drive
Floppy Drive	3.5" Floppy Drive
Network Interface	Ethernet Interface Card
Monitor	1024 x 768 x 65,535 color display

**Note:** A floppy drive is required only if managing VPN Firewall Brick Models 20, 80, 350, 500, or 1100/1100A.

**Table 7-2 Windows Vista minimum requirements**

Type	Minimum Requirement
Processor	800 MHz Pentium Processor or greater
RAM	1 GB or greater
Fixed Storage	20 GB with at least 15 GB of available space
Removeable Storage	CD-ROM Drive
Graphics	Support for Super VGA

Table 7-3 Solaris minimum requirements

Type	Minimum Requirement
Processor	500 MHz or greater SPARC Processor
RAM	512 MB or greater
Swap Space	Greater than or equal to RAM
Fixed Storage	500 MB disc space
Removeable Storage	CD-ROM drive
Floppy Drive	3.5" Floppy drive
Network Interface	Ethernet Interface Card

**Note:** A floppy drive is required only if managing VPN Firewall Brick Models 20, 80, 350, 500, or 1100/1100A.

## Compatibility restrictions

The primary SMS is compatible with a secondary SMS that is running the same software release version.

## Third-party or other hardware/software requirements

For information on third-party hardware/software, please see the *Alcatel-Lucent Security Management Server (SMS) Installation Guide*.





# 8 Installation and upgrade notes

## Overview

### Purpose

This chapter includes information on how to install the Release 9.2 patch for the Alcatel-Lucent Security Management Server software.

### Contents

This chapter covers these topics.

<a href="#">Performing first-time installation</a>	8-1
<a href="#">Performing upgrades</a>	8-1
<a href="#">Feature activation</a>	8-4
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<a href="#">Security hardening</a>	8-5
<a href="#">Software checksums</a>	8-5

## Performing first-time installation

For detailed instructions to perform first-time installations please see the *Alcatel-Lucent Security Management Server (SMS) Release 9.2 Installation Guide*.

## Performing upgrades

This section outlines how to load the latest patch for SMS Release 9.2 on an Alcatel-Lucent Security Management Server.

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## Install on Windows 2000, Windows XP, Windows 2003, Windows Vista

If you are unsure which product you are using, perform the following while logged into the SMS:

- a. Click on the **HELP** tab.
  - b. Click on **About**. A dialog box will be displayed that indicates the current SMS software version.
  - c. Exit from the Alcatel-Lucent Security Management Server.
1. Download the *LSMSPatch-9.2.311.exe* file for the Alcatel-Lucent Managed Firewall product to a temporary directory where you have at least 130.0 Mb of space.

To download the SMS Windows software now, please logon to your account at <https://vpn-firewall-brick.alcatel-lucent.com/>.

2. Once the download is complete, double click the *LSMSPatch-9.2.311.exe* or appropriate file and follow the installation instructions to install the software.

**Note:** All SMS services will automatically stop during the installation. They will restart once the installation is done. It is also important to exit out of the GUI and other SMS applications or close any windows that are using the SMS File system for the upgrade to be successful.

3. After the software has been successfully installed, launch the SMS Navigator and login to the SMS.
4. To verify successful installation of the software, perform the following:
  - a. Click on the **HELP** tab.
  - b. Click on **About**. A dialog box will display the version number of the Brick device and the SMS. This should update the version to 9.2.311.
5. To update and activate the new software on a firewall appliance, follow the steps below:
  - a. Access the **Devices** menu and select **BRICKS**.
  - b. Highlight the desired Brick device in the **Navigator View**. Right Click and select **Software Download**.
  - c. Click **OK** in the response window **Do you want to download software to brick: <Brickname>**. The server will copy the updated Brick device's OS to the selected Brick device. The process takes approximately three minutes.
  - d. After the download to the Brick device is done, a message is displayed as a reminder that the Brick device must be rebooted for these changes to take effect. Please reboot the Brick device.

For added protection, it is also recommend that you create an updated floppy disk, or flash drive for the Brick device.

- a. Insert a floppy disk into the disk drive or a flash drive into the USB port on the Alcatel-Lucent Security Management Server.

- b. Access the **Devices** menu and select **BRICKS**.
- c. Highlight the desired Brick device in the **Navigator View**. Right Click and select **Make/Package Floppy**.
- d. In the response window, click **OK**. The server will copy the VPN Firewall boot files to the floppy or USB flash drive.
- e. When the process is completed, please remove the floppy or USB flash drive from the SMS and store it in a safe location.

### Install on Solaris 8, 9, or 10

If you are unsure which product version you are using, perform the following while logged into the SMS:

- a. Click on the **HELP** tab
  - b. Click on **About**. A dialog box will be displayed that indicates the current SMS software version.
  - c. Exit from the Alcatel-Lucent Security Management Server.
1. Download the *lsmspatch-9.2.311.tar* file for the Alcatel-Lucent Security Management Server product.

To download the SMS Solaris software now, please logon to your account at <https://vpn-firewall-brick.alcatel-lucent.com/>.

2. Once the download is complete, move it to a temporary directory where at least 600.0 MB of space exists.

```
mv lsmspatch-9.2.311.tar /tmp
cd /tmp
```

3. Use the **tar** command to expand the file as follows:

```
tar xvf lsmspatch-9.2.311.tar
```

4. Execute a **pkgadd** command as follows:

```
pkgadd -d . LUsms
```

5. The first message will indicate This appears to be an attempt to install the same architecture and version of a package which is already installed. This installation will attempt to overwrite this package. And the following prompt is displayed:

```
Do you want to continue with the package of <LUsms> [y,n,?].
```

Type **y**.

**Note:** All SMS services will automatically stop during the installation. They will restart once the installation is done. It is also important to exit out of the GUI and other SMS applications or close any windows that are using the SMS File system for the upgrade to be successful.

6. After the software has been successfully installed, launch your SMS Navigator and login to the SMS.
7. To verify successful installation of the software, perform the following:
  - a. Click on the **HELP** tab.
  - b. Click on About. A dialog box will display the version number of the Brick devices and the SMS. The software should update the version to 9.2.311.
8. To update and activate the new software on a firewall appliance, follow the steps below:
  - a. Access the **Devices** menu and select **BRICKS**.
  - b. Highlight the desired Brick device in the **Navigator View**. Right Click and select **Software Download**.
  - c. Click **OK** in the response window Do you want to download software to brick: <**Brickname**>. The server will copy the updated Brick devices OS to the selected Brick device. The process takes approximately three minutes.
  - d. After the download to the Brick device is done, a message is displayed as a reminder that the Brick device must be rebooted for these changes to take effect. Please reboot the Brick device.

For added protection, we also recommend an updated floppy disk, or flash drive backup be created for the Brick device.

- a. Insert a floppy disk into the disk drive or a flash drive into the USB port on the Alcatel-Lucent Security Management Server.
- b. Access the **Devices** menu and select **BRICKS**.
- c. Highlight the desired Brick device in the **Navigator View**. Right Click and select **Make/Package Floppy**.
- d. In the response window, click **OK**. The server will copy Brick device boot files to the floppy or USB flash drive.
- e. When the process is completed, please remove the floppy or USB flash drive from the SMS and store in a safe location.

## Feature activation

The New Feature Setup utility allows an administrator to install a new key to provide additional SMS management capacity or new optional features as required.

For details on enabling new features using the New Feature Setup utility, refer to the *Alcatel-Lucent Security Management Server (SMS) Administration Guide*.



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## Upgrade paths

To upgrade to this release, please logon to your account at <https://vpn-firewall-brick.alcatel-lucent.com/>.

## Security hardening

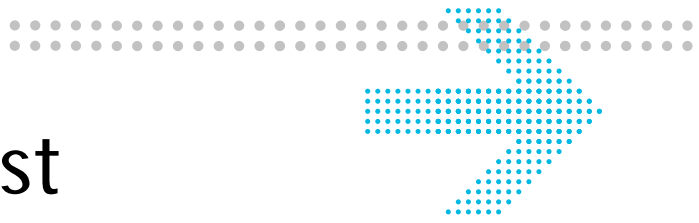
For guidelines on SMS security hardening see Appendix B of the *Alcatel-Lucent Security Management Server (SMS) Release 9.2 Installation Guide*.

## Software checksums

Table 8-1 SMS checksums

Filename	Checksum
<i>LSMSPatch-9.2.311.exe</i>	fa8ae56a3aa262ba4d812ffd71f847ed
<i>lsmspatch-9.2.311.tar</i>	0da541e685bb4e28fd1f2de21533931b





# Glossary/Acronym List

## B

**BPG**  
BSR Packet Gateway

## D

**DoS**  
Denial of Service

## G

**GPRS**  
General Packet Radio Service

**GTPv1**  
GPRS Tunneling Protocol version 1

## I

**IKEv2**  
Internet Key Exchange version 2

**IPMP**  
Internet Protocol Multiple Path

**IPSec**  
Internet Protocol Security

**IPv4**  
Internet Protocol version 4

## M

**MIB**  
Management Information Base

## N

**NTFS**  
New Technology File System

**O**

**OLCS**  
Online Customer Support Site

**Q**

**QoS**  
Quality of Service

**R**

**RADIUS**  
Remote Authentication Dial-In User Service

**S**

**SFP**  
small form-factor pluggable

**SIP**  
Session Initiation Protocol

**SMS**  
Alcatel-Lucent Security Management Server

**SNMP**  
Simple Network Management Protocol

**V**

**VPN**  
Virtual Private Network