



Seqrite Endpoint Security *for Mac*

Remote Installation Guide

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About the Document

This guide covers all the information about how to install Seqrite Endpoint Security on the Mac client computers remotely from the administrator computer that may have either Windows or Mac operating system. The following list describes the conventions that we have followed to prepare this document.

Convention	Meaning
<Step 1> <Step 2>	The instruction mentioned in the numbered list indicates actions that you need to perform.
	This symbol indicates additional information or important information about the topic being discussed.

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Installing Seqrite Mac Client Agent

You can install Seqrite Mac Client Agent in any of the following ways.

- [Installing using Apple Remote Desktop or Casper](#)
- [Connecting remotely using Secure Shell](#)
- [Using Terminal \(for Mac and Linux OS\)](#)
- [Using PuTTY \(for Windows OS\)](#)

Installing using Apple Remote Desktop or Casper

Apple Remote Desktop (ARD) helps you to connect to the Mac client computers remotely in the network, send software to them, install software on them, help other end users in real time, and perform various tasks.

Prerequisites

Before you install Seqrite Mac Client Agent, ensure the following requirements.

- The administrator computer with ARD or Casper installed must have Mac OS 10.6 or later / OS X server.
- Mac Seqrite Client installer must be created on Seqrite Endpoint Security (SEPS) server. To know about how to create client installer, see [Creating the Mac Seqrite Client installer](#).
- Administrator must have an account on the Mac client computers with admin privileges.
- Enable Remote Management on the Mac client computers.
- Your administrator computer must have Packages installed on it. Packages is a Mac OS application that helps you to create bundle for your payload and installation. To download Packages, visit <http://s.sudre.free.fr/Software/Packages/about.html>.

Creating Client Agent package

To create Client Agent package, follow these steps:

- 1 On the Seqrite Endpoint Security server, browse to the folder "<installation directory>\Seqrite\Endpoint Security 7.2\Admin\web\build".
<installation directory> indicates the path where Seqrite Endpoint Security has been installed.
- 2 Copy the folder `acmac` to the administrator Mac computer.
- 3 Open Terminal.app on the administrator Mac computer and go to the `acmac` folder.
- 4 Enter the following commands

```
cd ./Remote_Installation/PKG
sudo sh ./ClientAgentInstaller/CreatePackage.sh
```

Administrator rights are required for executing this command.

When the package creation completes successfully, [ClientAgentInstaller.pkg](#) file is created in the `./Remote_Installation/PKG/ClientAgentInstaller/` folder.

Installing Client Agent using Apple Remote Desktop or Casper

This procedure has been provided to help you install Client Agent on the remote Mac client computers using ARD or Casper. For more details, you may consult the documentation of the respective software applications.

Deploying Seqrite Mac Client using Apple Remote Desktop

In addition to the [Prerequisites](#) described in the preceding section, follow this prerequisite.

Prerequisite

Before deploying Seqrite Mac Client, ensure that you get Apple Remote Desktop (ARD) tool installed on your administrator computer. To download ARD, visit <https://www.apple.com/in/remotedesktop/>.

To deploy Seqrite Mac Client using Apple Remote Desktop, follow these steps:

- 1 Open Apple Remote Desktop.
- 2 Select the Mac client computers from the list of all available computers and then click **Install** to add the package.
- 3 Click the plus (+) sign to locate and add [ClientAgentInstaller.pkg](#) and then click **Install** to begin deployment.

Deploy Seqrite Mac Client using Casper

In addition to the [Prerequisites](#) described in the preceding section, follow this prerequisite.

Prerequisite

Before deploying Seqrite Mac Client, ensure that you get Casper tool installed on your administrator computer. Casper helps to install software and run scripts remotely on the client computers. To download Casper, visit <http://www.jamfsoftware.com/products/casper-suite/>.

To deploy Seqrite Mac Client using Casper, follow these steps:

- 1 Log on to Casper Admin.
- 2 Drag [ClientAgentInstaller.pkg](#) to the window and then select **File > Save**.
- 3 Log on to Casper Remote.
- 4 In the *Computers* tab, select the Mac client computers from the list of available computers.
- 5 In the *Packages* tab, select [ClientAgentInstaller.pkg](#).
- 6 Click **Go**.

Connecting remotely using Secure Shell

Secure Shell (SSH) is a network protocol that is used to connect to the remote Mac client computers over secure data communication through command line to manage client computers.

Using Terminal (for Mac or Linux OS)

The administrator computer having either Mac or Linux OS can install Client Agent using this method.

Prerequisites

Before you install Seqrite Mac Client Agent, ensure the following requirements.

- Administrator must have an account on the Mac client computers with admin privileges.
- Enable Remote Login and either allow access for all users, or only for specific users, such as Administrators. You can find this setting on the Mac computer under **System Preferences > Sharing > Remote Login**.
- Ensure that the firewall does not block the port that Secure Shell (SSH) uses, which is by default TCP port 22. This port allows the required communication for remote login.
- If you use the Mac firewall, disable stealth mode. With stealth mode enabled, the remote push installation cannot discover the client through Search Network.
- To disable stealth mode on the Mac computers, see the following Apple knowledge base article that applies to your version of the Mac operating system.
 - For 10.8, OS X Mountain Lion: see [Prevent others from discovering your computer](#)
 - For 10.9, OS X Mavericks: see [Prevent others from discovering your Mac](#)
 - For 10.10, OS X Yosemite: see [Prevent others from discovering your Mac](#)
 - For 10.11, OS X El Capitan: see [Prevent others from discovering your Mac](#)
 - For 10.12, macOS Sierra: see [Prevent others from discovering your Mac](#)
- Mac Seqrite Client installer must be created on the Seqrite Endpoint Security server. To know about how to create client installer, see [Creating the Mac Seqrite Client installer](#).

Installing Seqrite Mac Client Agent

To install Seqrite Mac Client Agent using Terminal, follow these steps:

- 1 On the Seqrite Endpoint Security server, browse to the folder "<installation directory>\Seqrite\Endpoint Security 7.2\Admin\web\build".
 <installation directory> indicates the path where Seqrite Endpoint Security has been installed.
- 2 Copy the folder `acmac` to the administrator Mac computer.
- 3 Open Terminal on the Mac administrator computer and go to the `acmac/Remote_Installation` folder.
- 4 Enter the following command

```
sh ./Scripts/copy.sh <username> <ip_address>
```

Parameter description

`sh ./Scripts/copy.sh` is static.

<username> specifies the user name of the remote Mac computer such as 'test'.

<ip_address> specifies the IP address of the remote Mac computer such as '10.10.0.0'.

Example: `sh ./Scripts/copy.sh "test" "10.10.0.0"`

- 5 Enter the password of the remote computer to connect to it.
- 6 Enter the command `sudo sh /tmp/install.sh`.
- 7 Enter the password of the remote computer when prompted.
- 8 Enter the command `exit` to close remote SSH session.
- 9 Repeat steps 4 through 8 to install Seqrite Mac Client Agent on a different remote computer.

Using PuTTY (for Windows OS)

The administrator computer having Windows OS can install Client Agent using this method.

Prerequisites

Before you install Seqrite Mac Client Agent, ensure the following requirements.

- Administrator must have an account on the Mac client computers with admin privileges.
- Enable Remote Login and either allow access for all users, or only for specific users, such as Administrators. You can find this setting on the Mac client computer under **System Preferences > Sharing > Remote Login**.
- Ensure that the firewall does not block the port that Secure Shell (SSH) uses, which is by default TCP port 22. This port allows the required communication for remote login.
- If you use the Mac firewall, disable stealth mode. With stealth mode enabled, the remote push installation cannot discover the client through Search Network.
- To disable stealth mode on the Mac computers, see the following Apple knowledge base article that applies to your version of the Mac operating system.
 - For 10.8, OS X Mountain Lion: see [Prevent others from discovering your computer](#)
 - For 10.9, OS X Mavericks: see [Prevent others from discovering your Mac](#)
 - For 10.10, OS X Yosemite: see [Prevent others from discovering your Mac](#)
 - For 10.11, OS X El Capitan: see [Prevent others from discovering your Mac](#)
 - For 10.12, macOS Sierra: see [Prevent others from discovering your Mac](#)
- Mac Seqrite Client installer must be created on the Seqrite Endpoint Security server. To know about how to create client installer, see [Creating the Mac Seqrite Client installer](#).

Installing Seqrite Mac Client Agent

To install Seqrite Mac Client Agent using PuTTY, follow these steps:

- 1 On the Seqrite Endpoint Security server, open `cmd.exe` and go to the folder "<installation directory>\SeqriteEndpoint Security 7.2\Admin\web\build\acmac".

<installation directory> indicates the path where Seqrite Endpoint Security has been installed.

2 Do one of the following:

- Enter the following command if antivirus is included in the client packager

```
.\Remote_Installation\Softwares\pscp.exe .\MCCLAGAV.TAR
.\Remote_Installation\Scripts\install.sh
<username>@<ip_address>:/tmp/
```

- Enter the following command if antivirus is not included in the client packager

```
.\Remote_Installation\Softwares\pscp.exe .\MCCLAGNT.TAR
.\Remote_Installation\Scripts\install.sh
<username>@<ip_address>:/tmp/
```



When MCCLAGAV.TAR as well as MCCLAGNT.TAR files are present, priority is given to the MCCLAGAV.TAR for installing the Seqrite mac client agent.

Parameter description

<username> specifies the user name of the remote Mac client computer such as 'test'.

<ip_address> specifies the IP address of the remote Mac client computer such as '10.10.0.0'.

Example: `.\Remote_Installation\Softwares\pscp.exe .\MCCLAGNT.TAR`
`.\Remote_Installation\Scripts\install.sh test@10.10.0.0:/tmp/`

- 3 Open `.\Remote_Installation\Softwares\putty.exe`.
- 4 Enter the IP address of the remote Mac client computer and click *Open*.
- 5 In the PuTTY terminal Window, enter the user name and password of an administrator user on the remote computer.
- 6 Upon getting connected to the remote computer, type the following command `sudo sh /tmp/install.sh`.
- 7 Type the command `exit` to close SSH connection.
- 8 Repeat steps 2 through 7 to install on a different Mac client computer.

Creating the Mac Seqrite Client installer

To create the Mac Seqrite Client installer, follow these steps:

- 1 On the Seqrite Endpoint Security server, go to **Start > Programs > Seqrite EPS Console 7.2 > Client Packager**.
- 2 In the *Client Agent Package* list, select **Custom**.
- 3 In the OS Platform list, select **Mac**.

- 4 In the *Antivirus setup included* list, select **Yes** or **No** depending on whether you want to include antivirus setup in Client Packager.
 - Select Yes, if you want to include the antivirus setup in Client Packager. But you cannot distribute this packager through email.
 - Select No, if you do not want to include the antivirus setup in Client Packager. This packager can be distributed through email.
- 5 Download the Mac Client build from any one of the following URLs:
<http://dlupdate.quickheal.com/builds/seqrite/72/en/mclsetp.zip>
<http://download.quickheal.com/builds/seqrite/72/en/mclsetp.zip>

Copy and extract the downloaded build to the "Seqrite\Endpoint Security 7.2\Admin\Web\build." folder.

- 6 Click **Create**.
 - If you select Yes to include antivirus in the client packager, a MCCLAGAV.TAR file is created in the acmac folder.
 - If you select No to create the client packager without antivirus, a MCCLAGNT.TAR file is created in the acmac folder.
- 7 On the Mac endpoint, copy and extract any of the created TAR files (MCCLAGAV.TAR and MCCLAGNT.TAR) and run the MCLAGNT.DMG file from the extracted folder to install Seqrite EPS Mac Client.

When the administrator downloads MCCLAGNT.TAR from the link provided in the email for 'Notify Install', the setup will be downloaded from the ACMAC folder of EPS server.



For roaming endpoints with MAC OS, only Custom client packager can be used for installing EPS client.