

# Lightspeed Smart Agent Deployment (macOS v2.3.1+ using Certificate Manager)

## Description

Need to deploy the latest version of Lightspeed Smart Agent version 2.3.1 along with your configurations. FileWave has got you covered in this step-by-step guide to creating the required Filesets to deploy to your macOS devices. Be sure that you have access to your administrative account in Lightspeed Filter app.



This KB article involves using the new Lightspeed Certificate Manager method. If using the version below v2.3.1 please review KB article here: [Lightspeed Smart Agent Deployment \(macOS 2023\)](#)

The new method involves using LightSpeed Certificate Manager. Certificate Manager leverages a cloud-based system to generate and monitor certificates and expiration, automatically pushing new certificate files to devices in the background (without disruption!) to ensure they always are current. In addition, Lightspeed is also leveraging root certificates for the trusting process, meaning that instead of repeatedly needing to re-trust the certificates every time they update - you now only need to trust the first time.



Note: You must use the MacOS Filter Agent 2.3.1+ to use Certificate Manager

## Ingredients

- FileWave Central
- Lightspeed Relay Filter Agent PKG installer (version 2.3.1)
- Lightspeed Root Certificate
- Supplied Fileset and Profile



Web Content Filter - A bug (FW-12629) exists which prevents the Filter Order being set.

## Download Lightspeed Relay Filter Agent for macOS

1. Login to your Lightspeed Filter account
  1. Navigate to Settings > Software
  2. Choose Lightspeed Filter
  3. Select the Mac tab
  4. Select the version of the Relay Filter Agent by clicking on the download icon
  5. Place the downloaded Relay Filter Agent PKG into your Downloads Folder

Lightspeed Filter

Classroom

SmartShield

Directory Sync

AccessScan

Location Agent

CHROME

WINDOWS

IOS

MAC

Select the minimum version you would like your agents to be upgraded to. (Auto-update will not downgrade agents.)

You may also download any version for testing or manual deployment. [Install Instructions](#)

Select minimum version for auto-update

☐ Relay Filter Agent 2.2.2  
July 11, 2023

☐ Relay Filter Agent 2.2.1  
June 16, 2023

☐ Relay Filter Agent 2.1.1  
June 16, 2023

[Show Older Agents](#)

Release Candidates

Relay Filter Agent 2.3.1

[Details](#)

A Release Candidate is an opportunity to be the first to use a new version. We highly recommend testing these features on IT controlled devices, ensuring that this version of the agent works in your environment


[Install Instructions](#) [Download](#)

Not sure which version is right for you?

[Release Notes](#)

## Generating the Certificate using Certificate Manager


1. Navigate to your Settings > Certificates within Lightspeed Filter account
2. Click Set Up to generate the certificate
3. Label your Organization name and enter in your number of active days for your certificate
4. Click Save to continue
5. Allow several minutes for the Certificate Manager to generate
6. Click to download and confirm trust certificate
7. Do not proceed with checking the two Acknowledgements boxes, until the certificate, content filter AND agent have been installed on your devices


 Lightspeed has noted the importance of order of operations; until you have downloaded and trusted the certificate AND installed the agent on your devices, then you may proceed to complete the two Acknowledgement boxes in the macOS Certificate Confirmation step.


## Filesets


### Fileset Group

Create a Fileset Group to hold the Filesets to be included. At the end it will look something like the below image.

 Lightspeed Filter Agent macOS v2.3.1+ Using Certificate Manager

 Lightspeed Agent Installer v2.3.1+

 LightSpeed Agent Uninstaller v2.3.1+

 Profile - Lightspeed Agent

## Configuration Profiles

### Network Settings

The profile contains 2 payloads: System Extension Policy and Web Content Filter.

▼ System Extension Policy

1. Click + to add Allowed Team Identifiers:  
Team Identifier: ZAGTUU2342

2. Click + to add Allowed System Extensions:  
1st Allowed System Extensions: com.lightspeedsystems.network-agent  
Enter add 2nd Allowed System Extensions with a comma after the 1st Allowed System Extensions  
2nd Allowed System Extensions: com.lightspeedsystems.network-agent.network-extension

3. Click + to add Allowed System Extension Types and check box for Network:  
Team Identifier: ZAGTUU2342

Profile Editor

Search

show only configured

macOS, iOS and tvOS

General

Mandatory

macOS 10.15+

System Extension Policy

1 payload(s) configured.

System Extension Policy

Only User Approved MDM enrolled devices can be managed with this payload

Can approve additional system extensions

Users can approve additional system extensions not explicitly allowed by configuration profiles

Allowed Team Identifiers

Allowed Team Identifiers

ZAGTUU2342

Allowed System Extensions

Allowed System Extensions column value is comma-separated list of system extensions identifiers

Allowed Team Identifiers

Allowed System Extensions

com.lightspeedsystems.network-agent, com.lightspeedsystem...

Allowed System Extension Types

If there is no entry for a given team identifier in the dictionary, all extension types are allowed.

Allowed Team Identifiers

Allowed System Extension Types

ZAGTUU2342

Driver

Network

Endpoint security

Please check [Apple's Configuration Profile reference](#) for OS compatibility.

Cancel

Settings

Load Profile

Save

▼ Web Content Filter

1. Filter Name: Lightspeed Agent

2. Identifier: com.lightspeedsystems.network-agent

3. Filter Order: Firewall (currently unable to be set as of FileWave 15.3.1)
4. Socket Filter Bundle Identifier: com.lightspeedsystems.network-agent.network-extension
5. Socket Filter Designated Requirement: anchor apple generic and identifier "com.lightspeedsystems.network-agent.network-extension" and (certificate leaf[field.1.2.840.113635.100.6.1.9] /\* exists / or certificate 1[field.1.2.840.113635.100.6.2.6] / exists / and certificate leaf[field.1.2.840.113635.100.6.1.13] / exists \*/ and certificate leaf[subject.OU] = ZAGTUU2342)
6. Username/Password: Sometimes the Username and Password fields are "included" automatically. Do not include them.

**Profile Editor**

Web Content Filter (supervised only)

Search

☒ show only configured

macOS, iOS and tvOS

**General**  
Mandatory

macOS 10.15+

**System Extension Policy**  
1 payload(s) configured.

**Web Content Filter**  
1 payload(s) configured.

**Filter Name**  
Display name of the filter in the app and on the device  
Lightspeed Agent

**Identifier**  
Identifier for the filter plug-in  
com.lightspeedsystems.network-agent

**Service Address**  
Host name or IP Address or URL for the service  
[optional]

**Organization**  
Organization for the filter plug-in  
[optional]

**User Name**  
User name for authenticating to the service  
[optional]

**Password**  
Password for authenticating to the service  
[optional]

**Certificate**  
Certificate for authenticating to the service  
No certificate payload is configured

☐ Filter WebKit Traffic

☒ Filter Socket Traffic

☐ Filter Network Traffic

**Socket Filter Bundle Identifier**  
Bundle identifier of the socket filter provider system extension  
com.lightspeedsystems.network-agent.network-extension

**Socket Filter Designated Requirement**  
Designated requirement of the socket filter provider system extension  
d.1.2.840.113635.100.6.1.13] / exists \*/ and certificate leaf[subject.OU] = ZAGTUU2342

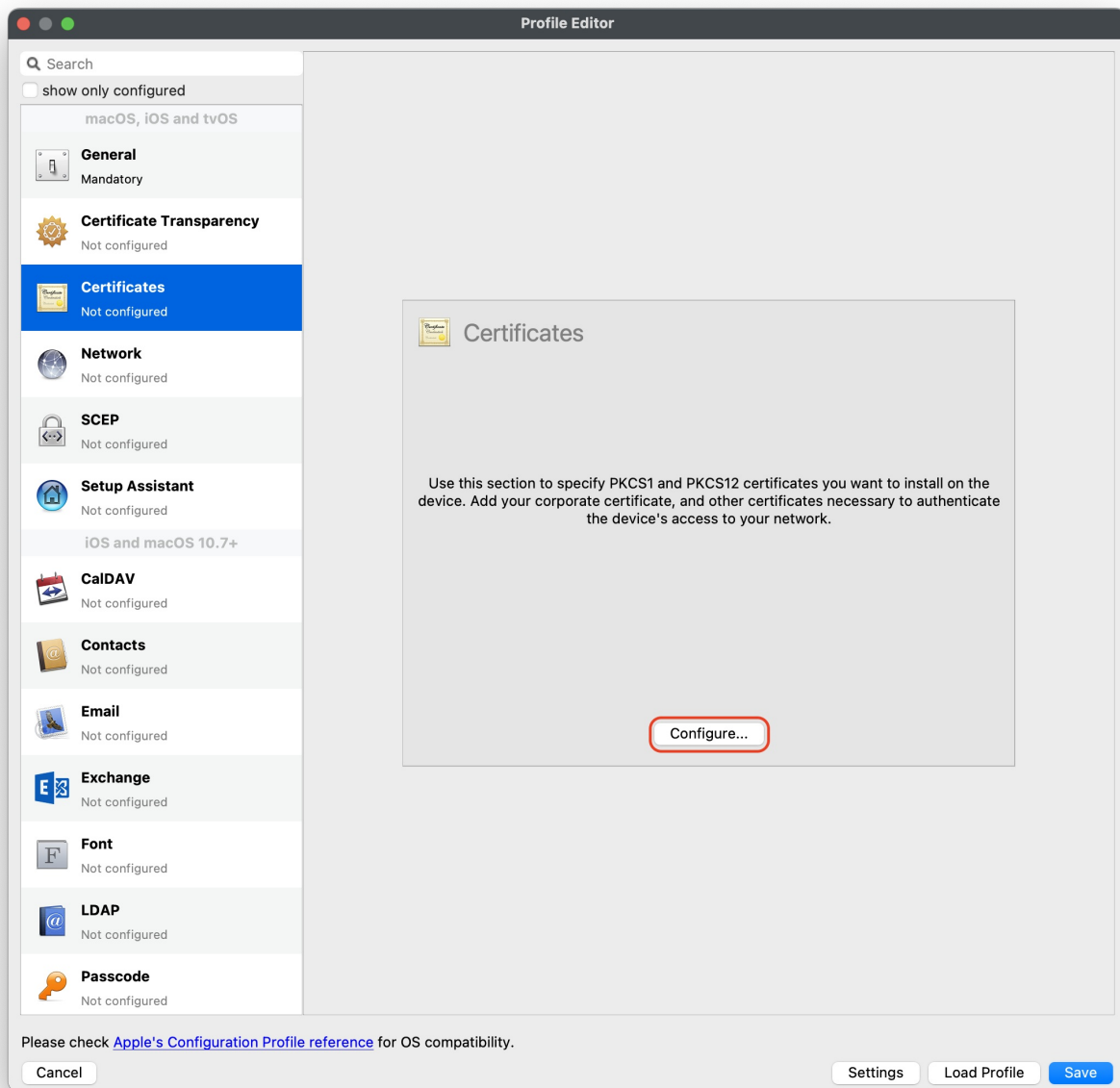
Please check [Apple's Configuration Profile reference](#) for OS compatibility.

Cancel Settings Load Profile Save

⚠ Web Content Filter - A bug (FW-12629) exists which prevents the Filter Order being set.

## Certificate Payload

1. Create a new Profile within the Fileset Group folder
2. Select Certificates and Configure
3. Upload the above generated certificate into this Profile



## Lightspeed Agent Installer

The provided Fileset includes a script to instal the above downloaded PKG file.

[Lightspeed Agent Installer v2.3.1+.fileset.zip](#)

1. Drag the Fileset into the FileWave Central Fileset Group Folder created above.
2. Edit the Fileset
3. Place the downloaded SmartAgent.pkg file into the same location as the .placeholder file
4. The .placeholder file may be deleted

Name	Size	Access	User	Group	Verification	ID	Mod
usr		rwxr-xr-x	root	wheel		304	
local		rwxr-xr-x	root	wheel		305	
etc		rwxr-xr-x	root	wheel		1334	
LightspeedAgent		rwxr-xr-x	root	wheel		781603	
.placeholder	0 B	rw-r--r--	root	wheel	Self Healing	781609	2023
var		rwxr-xr-x	root	wheel		1406	
scripts		rwxrwxr-x	root	wheel		1458	
736525		rwxrwxr-x	root	wheel		781612	
check_for_profile.sh	1.6 kB	r-x-----	root	wheel	Self Healing	781610	2023
install.sh	93 B	r-x-----	root	wheel	Self Healing	781611	2024

⚠ The name of the PKG is important. The installation script is expecting a file called SmartAgent.pkg. Rename if required.

⚠ The check\_for\_profile.sh script ensures the Profile is installed before the PKG. This script relies upon the Profile ID of the supplied Profile.

⚠ The Fileset has a Reboot setting configured to allow the Filter Network Content applied.

## Assignment

Assign the Fileset Group, either as a Deployment or an Association with one or more test devices. Once satisfied, consider assigning to all required devices.

✓ Once that you have installed the agent and trusted the root certificate on your devices, go back to your Lightspeed Account and navigate to Settings > Certificates. Check the two acknowledgement boxes and click Save.

## Requirement Script to check your Profile Identifier

The Fileset Script is designed to check for the presence of Profiles prior to installing the PKG. The provided Profile ID is already of consideration, however the newly generated Certificate Profile cannot be, since the ID cannot be known in advance. Both Profiles should instal at the same time, it is therefore arguably not required to be included in this consideration. However, for completeness, the Generated ID of the Certificate Profile could also be added.

### Bundle ID

First, the Bundle ID of the newly created Profile needs to be copied.

1. Open the Certificate Profile
2. Highlight the Bundle ID and choose to copy

Fileset Name: Profile - Lightspeed Certificate


Payload


Settings

Display Name: Lightspeed Certificate

Description: (empty)

Payloads:

General

Certificates

Identifier: ml1063.local.f8e55143-1647-4a38-b4d4-5187f8f255a1.Configuration.f8e55143-1647-4a38-b4d4-5187f8f255a1

Edit Payload...

Export Payload...

Copy

Copy Link Location

Select All

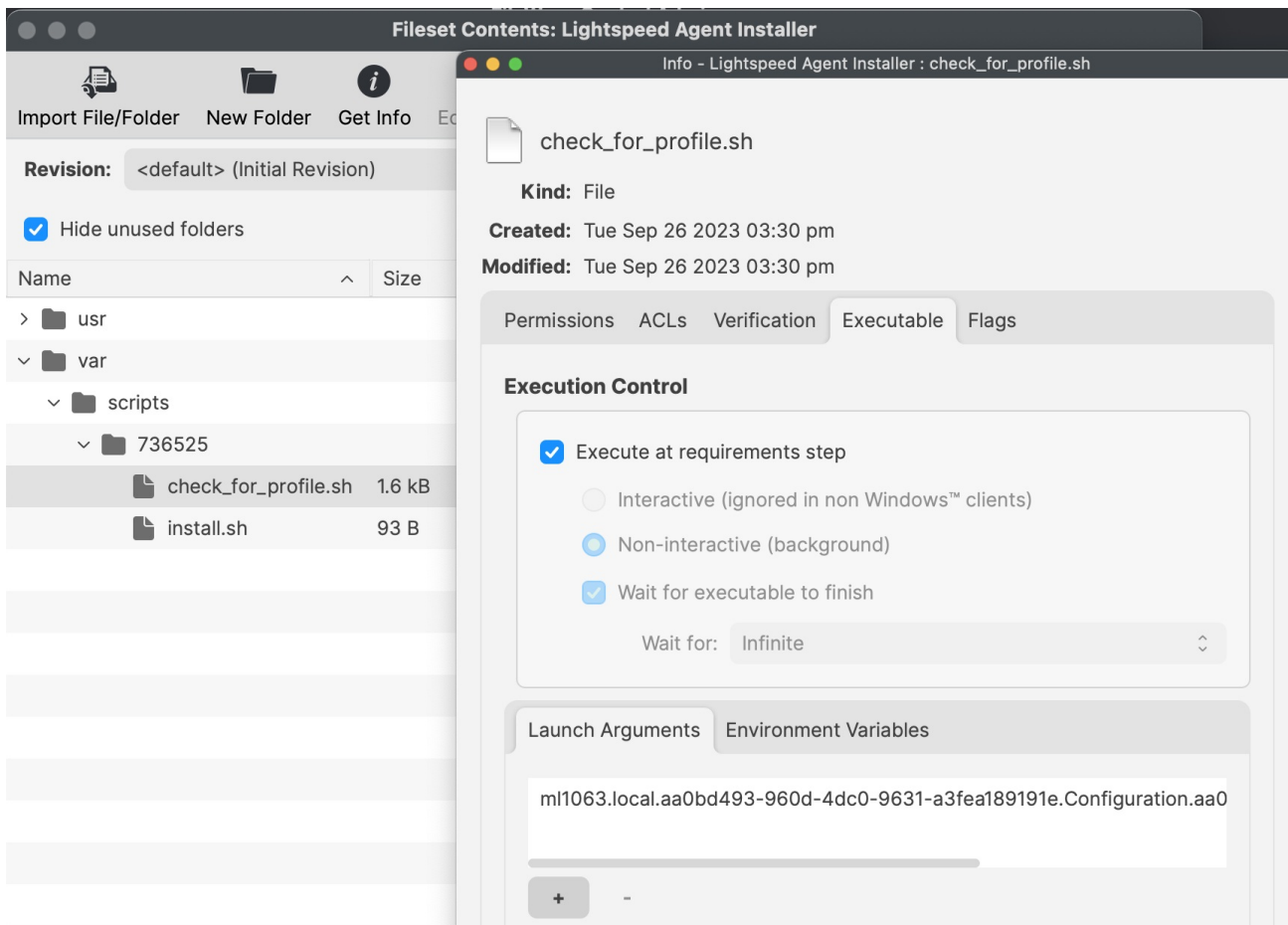
Cancel

Save

Script Info

- 1. Open the Lightspeed Agent Installer Fileset
- 2. Select the 'check\_for\_profile.sh' and choose Get Info
- 3. Select the Executable tab
- 4. Add a Launch Argument and paste or replace the current Launch Arguments with your copied Bundle ID







## Uninstall Fileset


The Fileset to uninstall Lightspeed Smart Agent v2.3.1+ from of your macOS devices. Included in the Fileset is a script that will execute and remove the LS Smart Agent. Please note this script only removes the Smart Agent, it does not remove the LS certificate or log files from the agent.


[LightSpeed Agent Uninstaller v2.3.1+.fileset.zip](#)

You may download and import into FileWave. You may then create a Fileset Group and include the LightSpeed Agent Uninstaller.

 **Lightspeed Filter Agent macOS v2.3.1+ Using Certificate Manager**

 **Lightspeed Agent Installer v2.3.1+**

 **LightSpeed Agent Uninstaller v2.3.1+**

 **Profile - Lightspeed Agent**

## Related Content

Needing to deploy Lightspeed for iOS devices? Review the KB article here: [Lightspeed Smart Filter Deployment \(iOS 2023\)](#).

Needing to deploy Lightspeed for non-Certificate Manager? Review the KB article here: [Lightspeed Smart Filter Deployment \(macOS 2023\)](#)

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