

# SCCM Plug-in User Guide

Version 3.0



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#### **Overview**

The SCCM plug-in sends inventory information from the JSS to the JSS SCCM Proxy Service, and then to Microsoft's System Center Configuration Manager (SCCM). It uses the JSS Events API to ensure that SCCM always has the most up-to-date hardware and software information for the computers and mobile devices in your JSS.

#### Requirements

Installing and configuring the SCCM plug-in requires:

- Microsoft's System Center Configuration Manager (SCCM) 2012
- The Casper Suite or Recon Suite v8.6 running in your environment
- A JSS user account with the following API privileges:
  - Read Computers
  - Read Mobile Devices

For instructions on granting API privileges to JSS user accounts, see the "Managing JSS User Accounts" section of the *Casper Suite Administrator's Guide*.

Generating an ISV proxy certificate requires:

- A Windows computer with the Certification Authority snap-in
- A public key infrastructure (PKI) that does not use the CA that is built into the JSS
- Console access to the SCCM server
- Administrative rights to the SCCM Console

Setting up the JSS SCCM Proxy Service requires a Windows computer with Microsoft .NET Framework 4.

## **Generating an ISV Proxy Certificate**

#### Step 1: Create a Certificate Template

- 1. On a Windows computer with the Certification Authority snap-in, open the Certification Authority.
- 2. In the Certification Authority tool, expand the certificate authority in the sidebar.
- 3. Right-click Certificate Templates in the sidebar and select Manage.

🙀 certsrv - [Certification Authority (Local)\J	AMF Software Certificate Authority\Certifi	cate Templates]	_ @ ×
File Action View Help			
🗢 🔿 🙍 🧟 🔒			
Certification Authority (Local)	Name	Intended Purpose	
JAMF Software Certificate Authority	ConfigMgr 2012 Client DP Cert	Client Authentication	
Revoked Certificates	ConfigMgr Mac Client Certificate	Client Authentication	
Issued Certificates	MP Proxy Certificate	Server Authentication, Client Authentication	
Pending Requests	SCCM2012 Web Server Cert	Server Authentication	
Failed Requests	Cross Certification Authority	<all></all>	
Certificate Templates	JAMFUser	Client Authentication, Secure Email, Encry	
	JAMF Computer	Server Authentication, Client Authentication	
	SCCM Web Server	Server Authentication	
	Config Mgr Site Signing Certificate	Document Signing	
	CEP Encryption	Certificate Request Agent	
	Exchange Enrollment Agent (Offline req	Certificate Request Agent	
	IPSec (Offline request)	IP security IKE intermediate	
	Directory Email Replication	Directory Service Email Replication	
	Domain Controller Authentication	Client Authentication, Server Authenticatio	
	EFS Recovery Agent	File Recovery	
	Basic EFS	Encrypting File System	
	Domain Controller	Client Authentication, Server Authentication	
	Web Server	Server Authentication	
	2 Computer	Client Authentication, Server Authentication	
	2 User	Encrypting File System, Secure Email, Clien	
	Subordinate Certification Authority	<all></all>	
	Administrator	Microsoft Trust List Signing, Encrypting File	
1	1		

- 4. In the Template Manager window, right-click the Computer template and select Duplicate Template.
- 5. In the Duplicate Template dialog that appears, select the **Windows Server 2003 Enterprise** option, and then click **OK**.



6. On the **General** tab, enter a display name for the template, and select the **Publish certificate in Active Directory** checkbox.

Issuance Requirements       Superseded Templates       Extensions       Security         General       Request Handing       Subject Name       Server         Template display name:       JSS SCCM Proxy Certificate         JSS SCCM Proxy Certificate       Minimum Supported CAs:       Windows Server 2003 Enterprise         Template name:       JSSSCCMProxyCertificate       Validity period:       Renewal period:         Validity period:       Renewal period:       1       years       6         Weeks       Image: Comparison of the period in
Template display name:         JSS SCCM Proxy Certificate         Minimum Supported CAs:       Windows Server 2003 Enterprise         Template name:         JSSSCCMProxyCertificate         Validity period:       Renewal period:         Validity period:       6 weeks         I years       6 weeks         Publish certificate in Active Directory         Do not automatically reenroll if a duplicate certificate exists in Active Directory         For automatic renewal of smart card certificates, use the existing key         if a course the consted
JSS SCCM Proxy Certificate         Minimum Supported CAs:       Windows Server 2003 Enterprise         Template name:       JSSSCCMProxyCertificate         JSSSCCMProxyCertificate       Image: Comparison of the server and the ser
Minimum Supported CAs:       Windows Server 2003 Enterprise         Template name:       JSSSCCMProxyCertificate         JSSSCCMProxyCertificate
Template name:         JSSSCCMProxyCertificate         Validity period:       Renewal period:         1 years       6 weeks         ✓       Publish certificate in Active Directory         □       Do not automatically reenroll if a duplicate certificate exists in Active Directory         □       For automatic renewal of smart card certificates, use the existing key         if a new key certed be cented
Validity period: Renewal period:          Validity period:       Renewal period:         1       years       6         Image: Second state of the
Validity period: Renewal period:          1       years       6       weeks       •         Image: Publish certificate in Active Directory       •       •       •       •         Image: Do not automatically reenroll if a duplicate certificate exists in Active Directory       •       •       •       •         Image: Por automatic renewal of smart card certificates, use the existing key       •       •       •       •       •
Validity period: Renewal period:   Validity period: Renewal period:   Verificate in Active Directory  Do not automatically reenroll if a duplicate certificate exists in Active Directory  For automatic renewal of smart card certificates, use the existing key
Years     G weeks     G     Weeks     G     Publish certificate in Active Directory     Do not automatically reenroll if a duplicate certificate exists in Active     Directory     For automatic renewal of smart card certificates, use the existing key     f a new key connect the centerd
<ul> <li>Publish certificate in Active Directory</li> <li>Do not automatically reenroll if a duplicate certificate exists in Active Directory</li> <li>For automatic renewal of smart card certificates, use the existing key</li> <li>f a new key carpet be certed</li> </ul>
<ul> <li>Publish certificate in Active Directory</li> <li>Do not automatically reenroll if a duplicate certificate exists in Active Directory</li> <li>For automatic renewal of smart card certificates, use the existing key</li> </ul>
Do not automatically reenroll if a duplicate certificate exists in Active     Directory     For automatic renewal of smart card certificates, use the existing key     if a new key carpot be certed
For automatic renewal of smart card certificates, use the existing key
f a new key cannot be created
a new key cannot be created
OK Cancel Apply Help

- 7. On the **Subject Name** tab, choose "Common name" from the **Subject name format** pop-up menu.
- 8. On the **Security** tab, ensure that the user that you plan to use to generate the ISV proxy certificate has read and enroll permissions, and then click **OK**.



9. Close the Template Manager window.

10. In the Certification Authority tool, right-click Certificate Templates in the sidebar, and select New > Certificate Template to Issue.

File Action View Help	
Certification Authority (Ocal)     JAMF Software Certificate Authority     ConfigMy 2012 Client DP Cert     ConfigMy 2012 Client DP Cert     ConfigMy 2012 Client DP Cert     ConfigMy 2012 Client Certificate     Dending Requests     Field Requests     Certificate Tempolate     ConfigMy 2012 Veb Server Cert     Serve     ConfigMy 2012 Veb Server Cert     Server     ConfigMy 2012 Veb Server     ConfigMy 2012	anded Purpose int Authentication rt Authentication rt Authentication ver Authentication Ne int Authentication, Secure Email, Encry Ver Authentication, Clent Authentication ver Authentication, Clent Authentication uver Authentication uver Authentication uver Authentication uver Authentication trificate Request Agent tificate Request Agent tificate Request Agent tificate Request Agent Recovery rypting File System nt Authentication, Server Authentication ver Authentication rt Authentication nt Authentication rt Authentication rt Authentication rt Authentication rt Authentication rt Authentication the Authentication rypting File System, Secure Email, Clen > ropoft Trust List Signing, Encrypting File

11. Choose the template you just created and click **OK**.

#### Step 2: Generate an ISV Proxy Certificate from the Template

- 1. On the Windows computer on which you plan to install the JSS SCCM Proxy Service, open Microsoft Management Console (MMC).
- 2. From the menu bar, choose File > Add/Remove Snap-in.
- 3. Select **Certificates** in the list of snap-ins and click the **Add** button.

vailable snap-ins:			Selected snap-ins:	
Snap-in	Vendor 🔺	]	Console Root	Edit Extensions
ActiveX Control	Microsoft Cor			
🛺 Authorization Manager	Microsoft Cor			Remove
Certificates	Microsoft Cor			
🥺 Component Services	Microsoft Cor			Move Up
http://www.computer Managem	Microsoft Cor	J		
🚔 Device Manager	Microsoft Cor			Move Down
🚔 Disk Management	Microsoft and	Add >		
🛃 Event Viewer	Microsoft Cor			
📔 Folder	Microsoft Cor			
Group Policy Object	Microsoft Cor			
🛍 Internet Information	Microsoft Cor			
Internet Information	Microsoft Cor			
lP Security Monitor	Microsoft Cor			
🔜 IP Security Policy Ma	Microsoft Cor	]		Advanced
escription:				
The Certificates snan-in allo	we you to browse the	contents of the	certificate stores for yourself a service	or a computer
The defailed tes shap in allo	ma you to bromac an	contents of the	certificate stores for yoursen, a service	, or a comparer.

- 4. Select the **Computer account** option and click **Next**.
- 5. Select the Local computer (the computer this console is running on) option.

6. Click **Finish**, and then click **OK**.

The certificate is displayed below the Console Root folder in the sidebar.

- 7. Expand "Certificates (Local Computer)" in the sidebar.
- 8. Right-click the Personal folder in the sidebar under "Certificates (Local Computer)", and select All Tasks > Request New Certificate.
- 9. Follow the onscreen instructions, and then select the checkbox next to the template you just created. Then, click **Enroll**.

icates. Select the certificates you want to re	quest, and then click Enroll.
i) STATUS: Available	Details 🛞 🔺
i STATUS: Available	Details 🛞
enroll for this certificate. Click here to configu	ure settings.
😲 STATUS: Available	Details 🛞
	<b>_</b>
	Enroll Cancel
	cates. Select the certificates you want to re

*Note:* If the template you just created is not listed, verify that the user you are using to generate the ISV proxy certificate has the appropriate permissions.

The newly created certificate should appear in the list of certificates.

🖀 Console1 - [Console Root\Certific	ates (Local Computer)\Personal\Ce			
🚟 File Action View Favorites V	Vindow Help			_ & ×
	😹 🛛 🖬			
Console Root Console Root Certificates (Local Computer) Certificates (Local Computer) Certificates Certificates Certificates Certificates Certificates Certificates Circuited Polyters Certificates Curtured Polyters Certificates Curtured Polyters Certificates Certificate Enrolment Reques Certificate Enrolment Reques Computer Certificates Certificate Enrolment Reques Certificate Enrolment En	Issued To Figure ScCM_PROXY.ad.jamfsw.corp	Issued By JAMF Software Certificate Authority WMSvc-WIN-8MOVLTORG27	Expiration Date 9/21/2013 6/18/2022	Actions Certificates ▲ More Actions ► JSS_SCCM_PROXY.ad.j ▲ More Actions ►
۲	<u>.</u>			

- 10. Double-click the newly created certificate.
- 11. In the dialog that appears, click the **Details** tab, and then click **Edit Properties**.

Enter a friendly name for the newly created certificate and click OK.
 It is recommended that you use "JSS SCCM Proxy Certificate" for the friendly name.

Certificate Properties
General Cross-Certificates OCSP Extended Validation
Priendly name: USS SCCM Proxy Certificate
Description:
Certificate purposes
Enable all purposes for this certificate
O Disable all purposes for this certificate
C Enable only the following purposes
Note: You may only edit certificate purposes that are allowed by the certification path.
Server Authentication
Client Authentication
Add Purpose
Learn more about certificate properties
OK Cancel Apply

- 13. Click OK again.
- 14. Right-click the certificate and select All Tasks > Export.
- 15. Follow the onscreen instructions to export the certificate as a DER-encoded .cer file.

#### Step 3: Copy the ISV Proxy Certificate to the SCCM Server

If you do not plan to install the JSS SCCM Proxy Service on the SCCM server, copy the ISV proxy certificate (.cer) to the SCCM server. If the JSS SCCM Proxy Service will be installed on the SCCM Server, skip to "Step 4: Register the ISV Proxy Certificate with SCCM".

#### Step 4: Register the ISV Proxy Certificate with SCCM

- 1. On the SCCM server, open SCCM and click the Administration category in the sidebar.
- 2. Click the disclosure triangle next to the Security folder in the sidebar.



3. Right-click Certificates and select Register or Renew ISV Proxy.

4. In the Register or Renew ISV Proxy dialog, select the **Register certificate for a new ISV proxy** option, and browse for the ISV proxy certificate (.cer).

Register or Renew ISV Proxy	×
An independent Software Vendor (ISV) proxy is installed by an ISV and allows ISV clients to communicate with the Configuration Manager management point.	
You can register a new ISV proxy by importing its certificate or by renewing the certificate for an existing ISV proxy.	
Select the action that you wish to perform	
<ul> <li>Register certificate for a new ISV proxy</li> </ul>	
C Renew certificate for an existing ISV proxy	
Select the ISV proxy certificate that needs to be renewed	51
Certificate issued to: SCCM.AD.JAMFSW.CORP	
Import new ISV proxy certificate	
Certificate: Browse	
OK Cancel	

- 5. Click **OK** to close the Register or Renew ISV Proxy dialog.
- 6. Take note of the certificate GUID for the ISV proxy certificate. You will need to enter this when you set up the JSS SCCM Proxy Service.

## **Exporting the CA Certificate**

- 1. On the Windows computer on which you plan to install the JSS SCCM Proxy Service, open Microsoft Management Console (MMC).
- 2. Expand "Certificates (Local Computer)" and the Trusted Root Certification Authorities folder in the sidebar.
- 3. Under the Trusted Root Certification Authorities folder in the sidebar, click the Certificates folder.
- 4. In the list of certificates, double-click the CA certificate.
- 5. In the dialog that appears, click the **Details** tab, and then click **Edit Properties**.
- 6. Ensure that the CA certificate has a friendly name and click **OK**.

*Note:* Take note of the friendly name for the CA certificate. You will need to enter this when you set up the JSS SCCM Proxy Service.

Certificate Properties	×
General Cross-Certificates OCSP Extended Validation	
	1
Friendly name:	Ш
Description:	
Certificate purposes	Ш
Enable all purposes for this certificate	П
O Disable all purposes for this certificate	П
C Enable only the following purposes	
Note: You may only edit certificate purposes that are allowed by the certification path.	
Server Authentication	Ш
Client Authentication	
Add Purpose	
Learn more about <u>certificate properties</u>	
OK Cancel Apply	J

- 7. Click OK again.
- 8. Right-click the CA certificate and select All Tasks > Export.
- 9. Follow the onscreen instructions to export the certificate as a DER-encoded .cer file.

# Generating a Client Certificate for the SCCM Plug-in

- 1. On a Windows computer that belongs to the same domain as the CA, open Microsoft Management Console (MMC).
- 2. From the menu bar, choose File > Add/Remove Snap-in.
- 3. Select Certificates in the list of snap-ins and click the Add button.

o-in	Vendor -	-	Console Root	Edit Extensions
ActiveX Control	Microsoft Cor	1		
Authorization Manager	Microsoft Cor			Remove
Certificates	Microsoft Cor			
Component Services	Microsoft Cor			Move Up
Computer Managem	Microsoft Cor			
Device Manager	Microsoft Cor			Move Down
Disk Management	Microsoft and	Add >		
vent Viewer	Microsoft Cor			
older	Microsoft Cor			
Group Policy Object	Microsoft Cor			
nternet Information	Microsoft Cor			
nternet Information	Microsoft Cor			
P Security Monitor	Microsoft Cor	-		Advanced
P Security Policy Ma	Microsoft Cor	<u>-</u>	ļ	Advanced
intion:				
Cortificator man in alle	we you to browce th	a contents of the	contificate stores for yourse	f a convice, or a computer
ceruncates snaphir aid	ws you to browse u	ie contents of the	certificate stores for yourse	r, a service, or a computer.

- 4. Select the My User Account option.
- 5. Click Finish, and then click OK.

The certificate is displayed below the Console Root folder in the sidebar.

- 6. Expand "Certificates Current User" in the sidebar.
- 7. Right-click the Personal folder in the sidebar under "Certificates Current User", and select All Tasks > Request New Certificate.

8. Follow the onscreen instructions and select the checkbox next to the "User" template. Then, click Enroll.

Certificate Enrollment		
Certificate Enrollment		
Request Certificates		
You can request the following types of certificates.	Select the certificates you want to request, and	then click Enroll.
EFS Recovery Agent	🔅 STATUS: Available	Details®
Exchange Enrollment Agent (Offline request)	STATUS: Available or this certificate. Click here to configure setting:	Details 🛞
☐ JAMFUser	(i) STATUS: Available	Details®
A More information is required to enroll for	or this certificate. Click here to configure settings	s.
User	(j) STATUS: Available	Details 🛞 🔔
Show all templates		
Learn more about certificates		
	En	roll Cancel

The newly created certificate should appear in Personal folder in the list of certificates.



- 9. Right-click the newly created certificate and select All Tasks > Export.
- 10. Click **Next** to proceed.

11. Select the Yes, export the private key option, and then click Next.



- 12. Select the following options:
  - Include all certificates in the certification path if possible
  - Delete the private key if the export is successful
  - Export all extended properties

Then, click Next.



- 13. Enter and verify a password for the certificate, and then click Next.
- 14. Complete the onscreen instructions to export the certificate as a .pfx file.

#### Copying the Client Certificate and CA Certificate to the JSS Host Server

- Copy the client certificate (.pfx) to the server that hosts the JSS.
   It is recommended that you put the client certificate in /Library/JSS/.
- Copy the CA certificate (.cer) to the server that hosts the JSS.
   It is recommended that you put the CA certificate in /Library/JSS/.
- 3. Ensure that the account used to run Tomcat has read access to both certificate files.

## Setting Up the JSS SCCM Proxy Service

*Note:* Before completing this procedure, you may need to make a firewall exception for port 9443 on the computer on which you plan to install the JSS SCCM Proxy Service.

- 1. On a Windows computer with Microsoft .NET Framework 4, extract the SSCM plug-in ZIP file.
- 2. Double-click the JSS SCCM Proxy Installer .msi file in the SSCM plug-in directory, and click Next to proceed.
- 3. Enter the fully qualified domain name (FQDN) for your SCCM management point, and your SCCM site code.

5CCM and Proxy Service S	ietup iettings				
– SCCM Settings –					
Management Point FQDN:					
Site Code:	I				
Proxy Settings	0140				
Listening Porc:	9443				
		< Bac	k N	ext >	Cancel

- 4. Enter the listening port number for the proxy and click **Next**.
- 5. Enter information about the ISV proxy certificate, server certificate, and CA certificate.

7 JSS SCCM Proxy Service Setu			×
Certificate Settings			
ISV Proxy GUID:			
ISV Proxy Friendly Name:	JSS SCCM Proxy Certificate		
Server Certificate Friendly Name:	JSS SCCM Proxy Certificate		
CA Certificate Friendly Name:			
	< Back	Next >	Cancel

- 6. Choose where you want to install the JSS SCCM proxy service, and then click Next.
- 7. Click Install.
- 8. When the installation is complete, click **Finish**.

## Installing the SCCM Plug-in

- 1. On the server that hosts the JSS, run the JSS SCCM Plug-in Installer JAR file.
  - On OS X and Linux, execute a command similar to the following:

```
sudo java -jar /path/to/JSS_SCCM_PluginInstaller.jar
```

• On Windows, run Command Prompt as an administrator and execute a command similar to the following:

```
java -jar /path/to/JSS_SCCM_PluginInstaller.jar
```

2. When prompted to restart Tomcat, type "y" to proceed.

# **Configuring the SCCM Plug-in**

- 1. Log in to the JSS with a web browser.
- 2. Navigate to https://jss.mycompany.corp:8443/SCCMPluginSettings.html.
- 3. Enter credentials for a JSS user account with API privileges to read computers and mobile devices.

JSS Settings		
JSS API Username:		
JSS API Password:		
Proxy Settings		
Proxy URL:		
CA Certificate Path:		
Client Certificate Path:		
Client Certificate Password:		
	Senable Computer Hardware Reports	
	Senable Computer Software Reports	
	Senable Mobile Device Hardware Reports	
	✓Enable Mobile Device Software Reports	
Additional Settings		
	Debug Mode	
	id Enable Plug−in	

4. Enter the URL for the proxy.

The URL must include the correct protocol and domain, and the port that you entered when you set up the JSS SCCM Proxy Service. For example, "https://sccm.mycompany.corp:9443".

- Enter the path to the CA certificate.
   For example, "/Library/JSS/CAcertificate.cer".
- Enter the path to the client certificate.
   For example, "/Library/JSS/clientCertificate.pfx".
- 7. Enter the password for the client certificate.
- 8. Choose which inventory information you want to send to SCCM.
- 9. Select the Enable Plug-in checkbox, and then click Save Settings.

# **Troubleshooting the SCCM Plug-in**

The log for the SCCM plug-in is located in one of the following locations on the server that hosts the JSS:

- OS X:/Library/JSS/Logs/
- Linux:/usr/local/jss/logs/
- Windows:C:\Program Files\JSS\Logs\

#### To enable Debug mode for the SCCM plug-in:

- 1. Log in to the JSS with a web browser.
- 2. Navigate to https://jss.mycompany.corp:8443/SCCMPluginSettings.html.
- 3. Select the **Debug Mode** checkbox, and then click **Save Settings**.

#### **Troubleshooting the JSS SCCM Proxy** Service

The log for the JSS SCCM Proxy Service is located in C:\Program Files (x86)\JAMF Software\ JSS SCCM Proxy Service\ on the computer with the JSS SCCM Proxy Service. This log allows you to configure logging levels that log varying amounts of information. You can customize the amount of information that is included in the log by choosing one of the following logging levels:

- Debug
- Info
- Warn
- Error
- Fatal

By default, the log is configured to use the "Warn" level.

For more information on the logging levels, see the following Apache Logging Services documentation: <u>http://logging.apache.org/log4j/1.2/apidocs/org/apache/log4j/Level.html</u>

#### To configure logging for the JSS SCCM Proxy Service:

- 1. On the computer with the JSS SCCM Proxy Service, navigate to C:\Program Files (x86)\JAMF Software\JSS SCCM Proxy Service\ and open the settings.xml file with a text editor.
- 2. Locate the element that begins with level value and replace the text in quotes with either "DEBUG", "INFO", "WARN", "ERROR", or "FATAL".
- 3. Save and close the file.

- 4. Open Services Management Console.
- 5. Right-click the JSS SCCM Proxy Service and select **Restart**.

#### **Release History**

Version	Changes
v2.0	<ul> <li>Added compatibility with the JSS Conduit v2.0.</li> </ul>
	<ul> <li>Decreased memory usage.</li> </ul>
	<ul> <li>Added the ability to export inventory information for secondary MAC addresses, additional disk partitions, and logical disk sizes.</li> </ul>
	<ul> <li>Fixed an issue that caused the SCCM plug-in to export inaccurate data for computers that don't have unique computer names in SCCM.</li> </ul>
v3.0	<ul> <li>Re-implemented the plug-in to interact with the JSS Events API, allowing inventory information from the JSS to be updated in SCCM in real time.</li> </ul>
	<ul> <li>Added support for Microsoft's SCCM 2012.</li> </ul>
	<ul> <li>Added support for communication over HTTPS.</li> </ul>

#### **Known Issues**

The following issues are known in the SCCM plug-in v3.0:

- When you upgrade the JSS, you need to re-install the SCCM plug-in.
- Mobile device and computer names that are updated in the JSS are not updated in SCCM.
- The SCCM plug-in can be used with English and French language packs only.