



# InCommon Certificate Manager

Introduction to Auto-Installer

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#### InCommon Certificate Manager - Introduction to Auto-Installer

This document is intended to introduce the new certificate Auto-Installer feature in InCommon Certificate Manager.

In brief:

- The new feature allows MRAO and RAO admins to automate the remote installation of any SSL certificate on Apache Tomcat, Apache/ModSSL ApacheSSL, IIS and F5 BIG-IP web-servers (more web-server types coming soon).
- The feature is enabled on a per-certificate basis by selecting the 'Auto install initial certificate' option in the 'Request New SSL Certificate' form
- There are two modes of implementation:

Enterprise Controller Mode	CM Controller Mode
Requires one-time installation of certificate controller software on a control server in your network. The controller	Requires an agent to be installed on each individual web server. The agents communicate with InCommon CM to
communicates with each remote host and coordinates automatic CSR generation and certificate installation.	coordinate automatic CSR generation and certificate installation.
See Method 1 - Enterprise Controller Mode	See Method 2 - CM Controller Mode

- 1. Enterprise Controller Mode
  - i. Certificate controller software is installed on a host in your network. The controller will communicate with your remote web-hosts and will automatically apply for and install certificates on to them. The controller is configured through a web-interface and can be set to communicate with InCommon CA infrastructure through a proxy server.
  - ii. The controller periodically polls InCommon CM for certificate requests. If a request exists, it will automatically generate a CSR for the web server and present the application for approval via the InCommon CM interface. After approval, the agent will submit the CSR to InCommon CA and track the order number. After issuance, the controller will download the certificate and allow administrators to install it from the InCommon CM interface.
  - iii. The auto-installation/renewal is enabled for the following server types:
    - Apache/Mod SSL
    - Apache SSL
    - Apache Tomcat
    - Microsoft IIS 1.x to 4.x (Server 2000 2008R2)
    - Microsoft IIS 5.x and above (Server 2000 2008R2)
    - F5 BIG-IP



See <u>Method 1 - Enterprise Controller Mode</u> for a tutorial on automatic installation of Certificates on remote web servers

- 2. CM Controller Mode
  - i. This mode requires an agent to be installed on each of the web servers for which certificate autoinstallation/renewal is required.
  - ii. The agent polls InCommon CM for certificate requests for servers that have been enabled for automatic installation. If a request exists, it will automatically generate a CSR for the web server and present the application for administrator approval in the InCommon CM interface. After approval, the agent will submit the CSR to InCommon CA and track the order number. After issuance, the agent will download the certificate and allow administrators to install it from the InCommon CM interface.
  - iii. The auto-installation/renewal is available for the following server types:
    - Apache/Mod SSL
    - Apache SSL
    - Apache Tomcat
    - Microsoft IIS 1.x to 4.x (Server 2000 2008R2)
    - Microsoft IIS 5.x and above (Server 2000 2008R2)

See Method 2 - CM Controller Mode for a tutorial on automatic installation of Certificates on web servers.

- If the admin chooses to install:
  - Windows IIS, Tomcat and F5 BIG-IP servers the certificate will be activated immediately and the 'Server Software' state will be changed to 'Active' in InCommon CM
  - Apache servers the server will need to be restarted to finalize installation. The 'Server Software' state will be be changed to 'Restart Required' in InCommon CM
- Once configured and running, the agent also helps automate the renewal of the certificate by, effectively, repeating this process close to expiry time (creating a new CSR and presenting it for approval by the InCommon CM admin).

The remainder of this document is the portion of Administrator guide of InCommon Certificate Manager, that explains the process of application through installation of an SSL certificate using the new Auto-Installer feature.

#### Method 1 - Enterprise Controller Mode

Enterprise Controller mode allows admins to automatically install certificates on any remote server on the network.
Controller software first needs to be installed on a server in your network.

- You then need to add web-servers to the controller to enable certificate auto-installation. This is done in the 'Discovery' > 'Agents' interface.
- If a new certificate is requested for an associated server, the controller will coordinate with the host to generate a CSR, submit it to InCommon CA, collect the certificate and install it.



 The controller software is configured through a dedicated web-interface. If required, the controller can be set to communicate with InCommon CA through a proxy server. See <u>Configuring the Certificate Controller Agent</u> <u>through Web Interface</u> if you need help with this.

#### To add remote servers to the certificate controller

• Click 'Discovery' > 'Agents':

Network Assets Discovery Ta	sks Agents				
$ \sim $					
Download Agent	lit Delete No	Comman	ds		
▼ NAME	ALTERNATIVE NAM	IE ORGANIZAT	ON DEPARTMEN	IT ACTIVE	
Agent docs 54		docs			
<ul> <li>Agent acme corp 53</li> </ul>		acme corp			
Common CIDR Ranges	Servers Delete				
NAME		VENDOR	STATE		
Server IIS docs 55		Microsoft IIS 7.x	Active	· · · · · · · · · · · · · · · · · · ·	
	ОК	15 rows/pa	ge 1 - 1 out of 1		

· Select the controller, click 'Edit' then open the 'Servers' tab

The server on which the controller is installed will be displayed in the list of servers.

• Click 'Add' to associate a remote server with the controller. The 'Add Web Server' dialog will open.



Edit Agent: Agent docs 54 (Las	st activity: just now) X
Common CIDR Ranges Se	rvers
Edit De	lete
NAME	VENDOR STATE
Server IIS docs 55	Microsoft IIS 7.x Active
V	
Add Web Server	×
*-required fields	
Name*	Server F5 Big-IP
Vendor*	F5 BIG-IP
State	Init
Remote	
IP address / Port*	
Use key	
Username	admin
Password	••••
	OK Cancel



Add Web Servers - Table of Parameters					
Field Name	Туре	Description			
Name	String	Enter the host name of the server.			
Vendor	Drop-down	Select the web-server type. Supported server types are:			
		Microsoft IIS 7.x			
		• Apache, Tomcat 5.x, 6.x and 7.x			
		• F5 BIG-IP			
		<b>Note</b> : Agents installed on a Windows server will only support IIS and F5 BIG-IP web-server types. Agents installed on a Linux server support all types (Apache, Tomcat, IIS and F5).			
State		Indicates whether or not the server is connected. The connection will be initialized and active once the agent starts communicating with it.			
Path to web server	String	Specify the network path of the server. Required only for Tomcat under Linux.			
Remote	Checkbox	Specify whether the server is remote or local. This checkbox should be selected when adding remote servers for agent-less automatic certificate installation.			
IP Address / Port	String	Specify the IP address and connection port of the server for remote connection.			
		Note: This field will be enabled only if 'Remote' is selected.			
Use key	Checkbox	Specify whether the agent should use SSH Key-Based Authentication to access the server.			
		Applicable only for Apache and Tomcat server types installed on Linux platform.			
User Name / Private Key File	String	If 'Use key' is not selected, specify the admin username to log-into the server, in the 'Username' field.			
Path		If 'Use key' is selected, specify the path to the SSH private key file to access the server			
		Note: This field will be enabled only if 'Remote' is selected.			
Password / Passphrase	String	If 'Use key' is not selected, specify the admin password to log-into the server, in the 'Password' field.			
		If 'Use key' is selected, specify the passphrase for the private key file.			



Add Web Servers - Table of Parameters
Note: This field will be enabled only if 'Remote' is selected.

Complete the form and click 'OK'. The server will be added to the controller. It will take a few minutes for the server to become 'Active'.

Edit Agent: Agent docs 54 (Last ad	ctivity: a moment ago)	×
Common CIDR Ranges Servers	5	
C + Add Edit Delete		
NAME	VENDOR	STATE
Server IIS docs 55	Microsoft IIS 7.x	Active
Remote F5 Server	F5 BIG-IP	Init
	15 rows/page 1-	- 2 out of 2 📢 💙 🕨
	OK Cancel	

Once the remote server is added to the controller, administrators can apply for certificates for domains on the server in the 'Certificates Management' > 'SSL Certificates' area.

Repeat the process to add more remote servers

#### To enroll a certificate for auto-installation

- Click the 'Certificates' tab and choose the 'SSL Certificates' sub-tab
- Click the 'Add' button

The built-in application form for SSL Enrollment will appear.



Request New SSL Certific	ate				×
*-required fields					
Organization*	acme corp	~	<b>(</b> )	Refresh	
Department*	ANY	~			
	Click here to edit address details	Territory (			
Certificate Type*	Instant SSL	~			
Certificate Term*	3 years	~			
Server Software*	OTHER	~			
	CSR				
Signature Algorithm	RSA	~			
Key Size	2048	~			
Requester External Requester Comments	John Smith		<b>(</b> )		
	Renewal & Installation	<u></u>			
	Create new key pair Auto install renewed certificate				
Comodo SSL Certificates					
Print	f the agreement to activate check box.				
	OK Cancel				



Form Element	Туре	Description					
Organization ( <b>required</b> )	Drop-down list	Choose the Organization that the SSL certificate will belong to.					
Department ( <i>required</i> )	Drop-down list	Choose the Department that the SSL certificate will belong to. For the certificate to be applied to all departments, choose 'Any'.					
Click here to edit	Text Fields	Clicking this link wil	ll expand the address fi	elds.			
address details							
			Click here to hide address details				
			Address as it will appear in the cer	rtificate Remove			
		Address1:	100, Raleigh Street				
		Address2:					
		Address3:					
		City:	Riverdale				
		State or Province:	Alabama				
		Postal Code:	123456				
		Certificate Type*	Instant SSL	•			
		certificates, the adr	t be modified but, in the ninistrator can choose to ing the 'Remove' check	o omit them from the			
		certificate by selecting the 'Remove' checkbox next to the fields. The allowed address details will appear in the issued certificate and the removed details will appear as "Details Omitted".					
		details of the Organ Certificate Request entering the these a remove certain field selecting Comodo I	nization, Incorporation on ter and the Contract Sig address details will be d ds is not available on the	ner. Therefore text fields for lisplayed and the option to e EV self-enrollment form on omodo EV Multi-Domain			
Certificate Type ( <i>required</i> )	Drop-down list	Choose the certificate type that you wish to add for auto-installation. Note: Currently InCommon CM supports auto-installation only for the 'Instant SSL' certificate type. Other certificate types will be enabled fo auto-installation in the future versions.					



Form Element	Тур	00	Description				
(required)		years, 3	3 years.				
Server Software ( <i>required</i> )	Drop-down	Auto-in • • • •	he server software on which the certificate is to be installed. stallation is supported only on the following server types: Apache/Mod SSL Apache - SSL Apache Tomcat Microsoft IIS 1.x to 4.x Microsoft IIS 5.x and above F5 BIG-IP Choose 'OTHER' if you want to use F5 BIG-IP.				
			CSR				
Provide CSR/Autogenerate CSR and Manage Private Key CSR ( <i>required</i> ) Get CN from CSR ( <i>optional</i> ) Upload CSR ( <i>optional</i> )	After a succ create the C Once you ch fields will dis You can chc	Leave these fields blank. After a successful application, the certificate controller will co-ordinate with the web server to create the CSR and submit it to InCommon CA. Once you choose 'Auto install initial certificate' under ' <u>Renewal &amp; Installation</u> ' in this form, these fields will disappear. You can choose the signature algorithm to be used by the public key of the certificate and the key size for the certificate under 'CSR'. Server Software* OTHER					
			CSR				
		Signature Algorithm Key Size					
		Certific	ate Parameters				
Common Name ( <b>required</b> )	Text Field	Type th	e domain that the certificate will be issued to.				
Requester ( <i>auto-</i> <i>populated</i> )	Text Field		equester' is field is auto-populated with the name of the strator making the application.				



Form Element	Туре	Description
External Requester (optional)	Text Field	Enter the email address of an external requester on whose behalf the application is made.
		Note: The 'Requester' will still be the administrator that is completing this form (to view this, open the 'Certificates Management' area and click 'View' next to the certificate in question). The email address of the 'External Requester' will be displayed as the 'External Requester' in the 'View' dialog of an issued certificate. This field is not required when requesting for EV SSL certificate and hence will be hidden.
Comments ( <i>optional</i> )	Text Field	Enter your comments on the certificate. This is optional.
	F	Renewal and Installation
Auto Renew	Checkbox and text field	Enable to auto-renew the certificate when it is nearing expiry. You can also choose the number of days in advance of expiry that the renewal process should start. On the scheduled day, the certificate controller will automatically generate a new CSR using the same certificate parameters as the existing certificate and submit it to the CA.
Create new key pair	Checkbox	Select this option if you want a new key pair is to be generated for the renewal certificate. Leaving it unselected means InCommon CM will reuse the existing key pair of the expiring certificate.
Auto install renewed certificate	Checkbox	Select this option if you want the renewed certificate be auto-installed.
Auto install initial certificate	Checkbox	Select this option to mark this certificate for auto-installation. After completing the form, the auto-installation wizard will allow you to select the nodes on which the certificate should be installed and to create an installation schedule.
Subscriber Agreement ( <i>required</i> )	Control	You must accept the terms and conditions before submitting the form by reading the agreement and clicking the 'I Agree' checkbox.

• Click 'OK' to submit the application

The 'Set Auto Renewal & Installation' dialog will be displayed with the 'Nodes' interface opened. The 'Nodes' interface displays a tree structure of servers associated with the Certificate Controller and the domains hosted on them.



Nodes 2	Schedule	3	Port —		<b>4</b> EUL	A	
2							
NAME	COMMON NAME	PROTOC	IP ADDRESS	PORT	STATUS	SSL	
Remote F5 Server					Active		^
● ~Common~test-vs	~Common~test-vs	HTTP	-	80	No SSL		
O~CCMQA~ccmqa-cluster01_8459	~CCMQA~ccmqa- cluster01_8459	HTTPS	2010-2010-2010-0	8459	Installed	External	
O~Common~VS02_HTTP_8459	~Common~VS02_HTTP_	E HTTPS	675 H. 275 BY	8459	Installed	External	
○~Common~test-vs_8449	~Common~test-vs_8449	HTTPS	172 16 225 27	8449	Installed	External	
O~CCMQA~ccmqa-cluster01_8450	~CCMQA~ccmqa- cluster01_8450	HTTPS	208.208.208.3	8450	Installed	External	
O~Common~test-vs_8447_8450	~Common~test- vs_8447_8450	HTTPS	172 16 225 89	8450	Installed	External	
○~Common~test-vs_8445	~Common~test-vs_8445	HTTPS	100 18 200 87	8445	Installed	External	
○~Common~test-vs_8447	~Common~test-vs_8447	HTTPS	175 16 255 87	8447	Installed	External	
○~Common~test-vs_8446	~Common~test-vs_8446	HTTPS		8446	Installed	External	
O~Common~VS02_HTTP_8455	~Common~VS02_HTTP_	E HTTPS	172 16 225 24	8455	Installed	External	
O Common~VS-20160912-233122_HTTPS	~Common~VS- _g 20160912-233122_HTTP:	E HTTPS	12.4.23.07	8454	Installed	External	
○~Common~vstest01_8454	~Common~vstest01_845		0.05.8140	8454	Installed	External	
O~Common~vstest01_8454_8456	~Common~vstest01_845	4 HTTPS	10.100.01.40	8456	Installed	<u>External</u>	
O~Common~VS05_HTTPS_9095	~Common~VS05_HTTPS	HTTPS	6669	443	Installed	External	~
					15 rows/page	1 - 1 out of 1 <	> >>

• Select the domain from the remote server for which you wish to install a SSL certificate and click 'Next'.

The 'Schedule' interface will be displayed enabling you to choose whether you wish to manually install the certificate from the InCommon CM interface or set a schedule for auto-installation.



Set Auto Renewal & Installation		×
1 Nodes	2 Schedule 3 Port 4 EULA	
	<ul> <li>○ Manual Certificate installation must be started manually.</li> <li>● Schedule Certificate installation will be started during selected time period.</li> <li>Time zone: UTC+00:00 - GMT, UCT, UTC, WET, EGST </li> <li>Start not earlier than: 01/18/2017</li> </ul>	
	Time Of Day	
	Run Between: 00 : 19 00 : 19	
	Day of Week	
	Run Only: 🗌 Monday 🗋 Tuesday 💭 Wednesday 💭 Thursday 💭 Friday 💭 Saturday 🗔 Sunday	
Close	< Back Next	>

- If you want to manually install the certificate from the InCommon CM interafce, select 'Manual'
- If you want to install the certificate at a scheduled time, select 'Schedule', select your time zone, and set a time period. The controller will generate the CSR and submit it to InCommon CA the next time it polls InCommon CM after the scheduled time.
- Click 'Next'.

The 'Port' interface will open.

Set Auto Renewal & Installation			×
1 Nodes 2 Schedule	3 Port		
~Common~test-vs	8460	]	
	Default node port will be used. Virtual Server -Common~test- vs:172.16.223.97:80 will be updated by port 8460		
Close			< Back Next >

- Specify the HTTPS port for installing the certificate, (Default = 9443)
- Click 'Next'. The EULA interface will open.



Set Auto Renewal & Installatio	n	×
1 Nodes	2 Schedule 3 Port	- 4 EULA
	Subscriber Agreement: Predefined test SSL license text for test customer[2] Print I agree.* Scroll to bottom of the agreement to activate check box.	
Close		< Back OK

- Read the EULA fully and accept to by the selecting 'I Agree' checkbox.
- Click 'OK' to save your application.

•

The certificate will be added to the SSL Certificates interface and its status will be displayed as 'Requested'.

🕖 Dashboard	Q Certificates	Discovery	Code Signin	ig on Demand	C Reports	<u>0</u> 2. Admin
SSL Certificates C	lient Certificates Co	de Signing Certificates	Device Certificate	s		
<b>Filter</b>						
- Add	Export Delete	Details Revol	Set Auto Renev	val & Installation		
COMMON NAME	OR	GANIZATION	DEPARTMENT	STATUS	EXPIRES	INSTALL S
ccmqa.com[95] *	acm	e corp		Requested	>	Not schedul
ccmqa.com[94]	dors			unmanaged	08/23/2018	Not schedu
ccmqa.com[93]*	docs	5		Unmanaged	08/22/2018	Not schedule
*Ic	docs	5		LInmanaged	07/14/2018	Not sched

The CSR for the requested certificate will be generated automatically. After the CSR has been created, the 'Approve' button will appear at the top when you select the certificate in the list:



🕜 Dashi	board 🤶 Certificate	es 😥 Discovery	[ Code	Signing on Demand	🕑 Rep
SSL Certific	cates Client Certificates	Code Signing Certificates	s Device Ce	rtificates	
<b>Filter</b>					
•	Add Export Edit	Details Approve	Decline	Set Auto Renewal & In	stallation
СОМ	MON NAME	ORGANIZATION	DEPARTMENT	STATUS	EXPI
🗹 ccmqa	.com[95]	acme corp		Requested	
🗌 ccmqa	.com[94]*	docs		Unmanaged	<b>08/2</b> 3/
	Approval Message *-required fields Message* The ssl certificate	request is approved	*		
	ОК	Cancel			

• Click the 'Approve' button to approve the request, enter an approval message and click 'OK'.

On approval, the CSR will be submitted to InCommon CA to apply for the certificate. The certificate status will change to 'Applied'.

🕗 Dashboard	Q Certificates	😥 Discovery	Code Signing	on Demand	
SSL Certificates	Client Certificates Co	ode Signing Certificates	Device Certificates		
<b>Filter</b>					
Add	Export	Details Set Auto I	Renewal & Installation		
COMMON NAM	AE OI	RGANIZATION	DEPARTMENT	STATUS	EXPIR
ccmqa.com[95]	acm	ne corp		Applied	
ccmqa.com[94]	× dee	8		Unmanaged	<b>08/2</b> 3/2:
	*doo			Linmanagod	

The controller will track the order number and will download the certificate once it is issued. The certificate will stored and its status will change to 'Issued'.



🕢 Dashboard	Certificates	Discovery	Code Signing	on Demand	C Reports	<u>0</u> 2 Admins
SSL Certificates	Client Certificates C	ode Signing Certificates	Device Certificates			
<b>Filter</b>						
₽ + Add	Export Details	install Re	new Revoke S	et Auto Renewal a	& Installation	
COMMON NAM	1E O	PCANIZATION	DEDARTMENT	STATUS	EXPIRES	INSTALL STAT
ccmqa.com[96]	doc	s		Issued	08/29/2020	Not scheduled
ccmqa.com[95]	aun	Te corp		invalid		Not scheduled
	*doc	\$		Unmonared	08/22/2048	Motoobody/er

To check whether the Certificate Controller has stored the certificate

- Click 'Discovery' > 'Agents'
- Select the controller and click 'Commands' button

You will see successful execution of 'Store Certificate' command.



🕜 Dashboard	Certificates	Discovery	Code Signing on Der	mand C	
Network Assets	Discovery Tasks Agent	is			
Filter					
Download	Agent Edit Delete	Nodes Comm	ahne		
Download		noues comm			
▼ NAME	ALTERNATI	VE NAME ORGANIZ	ATION DEPARTMENT	ACTIVE	
Agent docs 54		docs			
<ul> <li>Agent acme co</li> </ul>	orp 53	acme corp			
and the second		Difference of			
K					
Commands					×
Queue Sched	lule history				
Ð					
NAME		DATE	STATE		
<ul> <li>Store Certificat</li> </ul>	te	08/29/2017 15:58:20	Successful		
O Generate Certi	ificate	08/29/2017 15:56:16	Successful		
<ul> <li>Generate Cent</li> </ul>	liteate	08/29/2017 15:19.50	Successful		
O Discover Targe	et Servers	08/29/2017 13:28:08	Successful		
O Discover Netw	rork	08/28/2017 17:40:29	Successful		
<ul> <li>Update Config</li> </ul>	uration	08/28/2017 16:40:11	Successful		
O Discover Targe	et Servers	08/28/2017 16:34:29	Partially Successful		
			15 rows/pa	ge 1 - 7 out of 7	$\blacksquare \bullet \triangleright \gg$
		Close			

The certificate is stored on the server by the agent. If you have set a schedule for automatic installation in the Schedule step while applying for the certificate, it will be installed automatically at the scheduled time. If you have selected 'Manual' in the Schedule step, you can manually initiate the installation process or schedule for auto-installation, from the 'Certificates' > 'SSL Certificates' interface of the InCommon CM console.

#### To manually initiate auto-installation of a certificate

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Select the certificate from the 'Certificates' > 'SSL Certificates' interface and click 'Install'



🕖 Dashboard 🧕 Certificates	s 😥 Discovery	🕎 Cod	le Signing on Derr	nand	🕑 Repor	ts <u>Q2</u> Ad	mins	
SSL Certificates Client Certificates	Code Signing Certificates	Device C	ertificates					
<b>Filter</b>								
- Add Export Det	ails Install Rene	w Rev	voke Set Auto	Renewa	I & Installation	1		
COMMON NAME	ORGANIZATION	DEPARTMEN	T SI	TATUS	EXPIRE	S INSTAL	L STAT(	
ccmqa.com[96]	docs		Issu	ued	08/29/20	20 Not sche	duled	
ccmqa.com[95]	acme corp		Inva	lid		Not sche	duled	
	•					Matacha		
4								
nstall Certificate								×
₽ NAME	Installing cert order i	number 1 PROTOC		t the no	ode to insta	II. SSL		
□~Common~test-vs_8451	~Common~test-vs_8451	HIIPS	1/2.16.223.97	8451	Installed	External		^
Common~vstest01_8453	~Common~vstest01_8453	HTTPS	10.100.93.40	8453	Installed	External		
Common~VS02_HTTP_8457	~Common~VS02_HTTP_8	HTTPS	172.16.223.91	8457	Installed	<u>External</u>		
✓ ~Common~test-vs	ccmqa.com	HTTP	172.16.223.97	80	No SSL			
Common~vstest01	~Common~vstest01	HTTP	10.100.93.40	80	No SSL			
CCMQA~ccmqa-cluster01	~CCMQA~ccmqa- cluster01	HTTP	255.255.255.0	9097	No SSL			
Common~VS04_HTTP_9090	~Common~VS04_HTTP_9	HTTP	172.16.223.93	9090	No SSL			
		HTTP	172.16.223.91	80	No SSL			
Common~VS02_HTTP	~Common~VS02_HTTP							~
Common~VS02_HTTP	~Common~VSU2_HTTP				15 r	ows/page 1-1 out	of 1 🛃 🔍	×

The 'Install Certificate' wizard will start with the 'Nodes' interface. The node upon which the certificate is to be installed is pre-selected.

- If you want to install the same certificate to additional nodes or to a different node, select the node(s) as required
- Click 'Next'.

The 'Ports' interface will open.

1 Nodes 2 Port		
~Common~test-vs	8460	
	Virtual Server ~Common~test- vs:172.16.223.97:80 will be updated by port 8460	
		 _



Specify the port and click 'OK'.

The certificate installation will begin instantly. Once the installation commences, the 'Install State' of the certificate will change to 'Started'.

🕗 Dashboard 🛛 🧕 Certific	cates 😥 Discovery  Code Signi	ng on Demand	C Reports	<u>0</u> 2 Admins	Settings
SSL Certificates Client Certificate	es Code Signing Certificates Device Certificate	es			
🜱 Filter					
Add Export	Details Install Renew Revoke	Set Auto Renewal &	& Installation		
COMMON NAME	ORGANIZATION DEPARTMENT	STATUS	EXPIRES	INSTALL STATE	RENEWAL STAT
🗹 ccmqa.com[96]	docs	Issued	08/29/2020	Started	Not scheduled
ccmqa.com[96]	docs acme corp	Issued	08/29/2020	Started Not scheduled	Not scheduled Not scheduled

When installation is complete:

**IIS servers**, **Tomcat** and **F5 BIG-IP** - The certificate will be activated immediately and the install state will change to 'Successful'.

🕗 Dashboard 🧕 🤶 Certifi	icates 😥 Discovery	Code Signing o	on Demand	C Reports	<u>0</u> Admins	Settings
SSL Certificates Client Certificate	es Code Signing Certificates	Device Certificates				
ү Filter						
🔁 🕇 Add 🛛 Export	Details Install Ren	new Revoke S	et Auto Renewal &	Installation		
COMMON NAME	ORGANIZATION	DEPARTMENT	STATUS	EXPIRES		
			SIAIUS	EXPIRES	INSTALL STATE	RENEWAL STAT
ccmqa.com[96]	docs		Issued	08/29/2020	Successful	RENEWAL STAT
ccmqa.com[96]	docs acme corp					

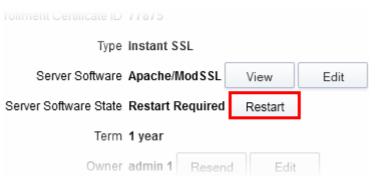
 Apache - The certificate will become active after the server is restarted. The install state will change to 'Restart Required'.

COMMON NAME	ORGANIZATION	DEPARTMENT	▲ STATUS	EXPIRES	SERVER SOFTWARE
abcdamp.com	ABCD Company		Requested		
ditherscons.com	Dithers Construction Company	Purchases Department	Issued (	03/31/2016	Restart Required
drake.com	Drake		Requested		
elegant.com	Elegant	Purchases Department	Requested		
fatcat.com	Fat Cat		Requested		

Administrators can restart the server remotely from the InCommon CM interface by clicking the 'Details' button then 'Restart':



- Select the certificate and click the 'Details' button at the top. The 'Certificate Details' dialog will be displayed.
- Click 'Restart' beside the Server Software State field in the 'Details' dialog



After restarting the server, the certificate will activated and the 'Install State' will change to 'Successful'.

- To check whether the controller has installed the certificate, click Discovery > Agents
- · Select the controller and click the 'Commands' button

You will see successful execution of 'Install Certificate' command.

Commands			×
Queue Schedule history			
Details Restart			
NAME	DATE	STATE	
Install Certificate	08/29/2017 16:23:44	Successful	
O Store Certificato	08/29/2017 15:58:20	Successful	
O Generate Certificate	08/29/2017 15:56:16	Successful	
	00/20/2017 45-10-50		

To view command details, select the command and click the 'Details' button at the top.

Name	Install Certificate	
Date	08/29/2017 16:23:44	
State	Successful	
-	SSL Order Number: 1729480 SSL Serial Number: 78C41E511591C2CAC6FAE16197B0FEE1 Server Software: OTHER	<b>~</b>



#### Method 2 - CM Controller Mode

Administrators can request and install new certificates for domains hosted on different web servers from the 'Certificate Management - SSL Certificates' area. 'CM Controller Mode' requires an agent to be installed on each web server upon which the certificates are to be auto-installed/renewed.

#### To enroll a certificate for auto-installation

- Click the 'Certificates' tab and choose the 'SSL Certificates' sub-tab
- Click the 'Add' button

The built-in application form for SSL Enrollment will appear.



Request New SSL Certific	ate			×
*-required fields				
Organization*	org1	~	(i) 🔁 Refresh	
Department*	ANY	~		
	Click here to edit address details			
Certificate Type*	Instant SSL	~		
Certificate Term*	1 year	~		
Server Software*	Microsoft IIS 5.x and later	~		
	CSR			
	Provide CSR O Autogenerate CSR and Mar	nag	e Private Key	
CSR*				
Max CSR size is 32K	Get CN from CSR Upload CSR			
	Certificate Parameters			
Common Name*	ccmqa.com			
Requester	Admin MRAO			
External Requester			()	
Comments				
		.1		
	Renewal & Installation			
Subscriber Agreement	Auto renew 30 days before expiration Create new key pair Auto install renewed certificate Auto install initial certificate			
Predefined test SSL license t	ext for test customer[2]			
Print				
I agree." Scroll to bottom o	f the agreement to activate check box.			
	ov			
	OK Cancel			



Form Element	Туре		Description	
Organization ( <i>required</i> )	Drop-down list	Choose the Organi	zation that the SSL certificate w	ill belong to.
Department ( <b>required</b> )	Drop-down list	-	ment that the SSL certificate wil departments, choose 'Any'.	ll belong to. For the certificate
Click here to edit address details	Text Fields	Clicking this link wi	ll expand the address fields.	
		Department	Purchases Department Click here to hide address details	
			Address as it will appear in the certificate	Remove
		Address1:	100, Raleigh Street	
		Address2:		
		Address3:		
		City:	Riverdale	
		State or Province:	Alabama	
		Postal Code:	123456	
			Instant SSL	
		administrator can c 'Remove' checkboy The allowed addres	t be modified but, in the case of hoose to omit them from the ce k next to the fields. ss details will appear in the issu as "Details Omitted".	rtificate by selecting the
		the Organization, In the Contract Signe will be displayed ar EV self-enrollment	cates, it is mandatory to include neorporation or Registration Age r. Therefore text fields for enterine nd the option to remove certain form on selecting Comodo EV S Certificate from the 'Certificate	ency, Certificate Requester and ng the these address details fields is not available on the SSL Certificate or Comodo EV
Certificate Type ( <i>required</i> )	Drop-down list	Note: Currently InC	ate type that you wish to add for Common CM supports auto-insta e. Other certificate types will be	allation only for the 'Instant
Certificate Term ( <b>required</b> )	Drop-down list	Choose the validity years.	period of the certificate. For ex	ample, 1 year, 2 years, 3



Form Element	Туре	Description						
Server Software ( <b>required</b> )	Drop-down list	<ul> <li>installation is supported only on the following server types:</li> <li>Apache/Mod SSL</li> <li>Apache - SSL</li> <li>Apache Tomcat</li> <li>Microsoft IIS 1.x to 4.x</li> <li>Microsoft IIS 5.x and above</li> </ul>						
		CSR						
Provide CSR/Autogenerate CSR and Manage Private Key CSR ( <i>required</i> ) Get CN from CSR ( <i>optional</i> ) Upload CSR ( <i>optional</i> )	After a succ create the C Once you cl these fields You can cho	e fields blank. essful application, the certificate controller will co-ordinate with the web server to CSR and submit it to InCommon CA. noose 'Auto install initial certificate' under ' <u>Renewal &amp; Installation</u> ' in this form, will disappear. bose the signature algorithm to be used by the public key of the certificate and the the certificate under 'CSR'.						
		CSR						
		Signature Algorithm RSA 🔹						
	Key Size 2048							
		Certificate Parameters						
Common Name ( <b>required</b> )	Text Field	Type the domain that the certificate will be issued to.						
Requester ( <i>auto-</i> <i>populated</i> )	Text Field	The 'Requester' is field is auto-populated with the name of the administrator making the application.						
External Requester ( <b>optional</b> )		Enter the email address of an external requester on whose behalf the application is made.						



Form Element	Туре	Description
		Note: The 'Requester' will still be the administrator that is completing this form (to view this, open the 'Certificates Management' area and click 'View' next to the certificate in question). The email address of the 'External Requester' will be displayed as the 'External Requester' in the 'View' dialog of an issued certificate. This field is not required when requesting for EV SSL certificate and hence will be hidden.
Comments ( <b>optional</b> )	Text Field	Enter your comments on the certificate. This is optional.
		Renewal and Installation
Auto Renew	Checkbox and text field	Enable to auto-renew the certificate when it is nearing expiry. You can also choose the number of days in advance of expiry that the renewal process should start. On the scheduled day, the certificate controller will automatically generate a new CSR using the same certificate parameters as the existing certificate and submit it to the CA.
Create new key pair	Checkbox	Select this option if you want a new key pair is to be generated for the renewal certificate. Leaving it unselected means InCommon CM will re-use the existing key pair of the expiring certificate.
Auto install renewed certificate	Checkbox	Select this option if you want the renewed certificate be auto-installed.
Auto install initial certificate	Checkbox	Select this option to mark this certificate for auto-installation. After completing the form, the auto-installation wizard will allow you to select the nodes on which the certificate should be installed and to create an installation schedule.
Subscriber Agreement ( <i>required</i> )	Control	You must accept the terms and conditions before submitting the form by reading the agreement and clicking the 'I Agree' checkbox.

• Click 'OK' to submit the application

The 'Set Auto Renewal & Installation' dialog will be displayed with the 'Nodes' interface open. The 'Nodes' interface displays a list of agents installed on your servers for different Organizations and Departments. A list of server nodes is shown under each Agent.



NAME	COMMON NAME	PROTOC	IP ADDRESS	PORT	STATUS	SSL	
Server IIS org1 50					Active		
O test.ccmqa.com	fortest.ccmqa.com	HTTPS	*	8444	Failed	<u>1675873</u>	
O self.ccmqa.local	self.ccmqa.local	HTTP	*	8443	No SSL		
ms1.ccmqa.com	ms1.ccmqa.com	HTTP	*	443	No SSL		
O Default Web Site	Default Web Site	HTTP	*	80	No SSL		

Select the domain on which you wish to install a certificate and click Next.

The 'Schedule' interface will open, allowing you to install the certificate manually from the InCommon CM interface or to set a schedule for auto-installation.

Set Auto Renewal & Installation		×
1 Nodes	2 Schedule 3 Port 4 EULA	
	Manual Certificate installation must be started manually.  Schedule Certificate installation will be started during selected time period.  Time zone: UTC+00:00 - GMT, UCT, UTC, WET, EGST	
	Start not earlier than: 01/18/2017	
	Time Of Day	
	Run Between: 00 : 19 00 : 19	
	Day of Week	
	Run Only: 🗌 Monday 🗌 Tuesday 🗌 Wednesday 🗌 Thursday 🗌 Friday 🗌 Saturday 🗌 Sunday	
Close		< Back Next >

- · If you want to manually install the certificate from the InCommon CM interface, select 'Manual'
- If you want to install the certificate at a scheduled time, select 'Schedule' then select your time zone and a 'not earlier than' time. The controller will generate a CSR and submit it to InCommon CA the first time it polls InCommon CM after the 'not earlier than' time. Use the check-boxes at the bottom to limit which days of the week that the installation should run.
- Click 'Next'.



#### The 'Port' interface will open.

Set Auto Renewal & Installation		×
1 Nodes 2 Schedule	3 Port	- 4 EULA
ms1.ccmqa.com	8445	
	Wrong server configuration: HTTP on 443 port or HTTPS on 80.	
	Default node port will be used. New binding on port 8445 will be created	
Close		< Back Next >

- Specify the HTTPS port for installing the certificate, (*Default = 9443*)
- Click 'Next'. The EULA interface will open.

Set Auto Renewal & Insta	llation	×
1 Nodes	2 Schedule 3 Port 4 EUL	LA
	Subscriber Agreement:	
	Predefined test SSL license text for test customer[2]	
	Print Scroll to bottom of the agreement to activate check box.	
Close	< Back	ОК

- Read the EULA fully and accept it by selecting the 'I Agree' checkbox.
- Click 'OK' to save your application.

The certificate will be added to the SSL Certificates interface and its status will change to 'Requested'.



🕖 Dashboard	Q Certificates	Discovery	🕑 Reports	<u>0</u> 2 Admins	Settings
SSL Certificates	Client Certificates	Code Signing Certificates	Device Certificat	es	
<b>Filter</b>					
- Add	Export				
	NAME	ORGANIZATION	DEPARTMENT	STATUS	EXPIRES
Ccmqa.com[67	7] o	org1		Invalid	
Ccmqa.com[72	2] o	org1		Applied	
Ccmqa.com[68	3] o	org1		Requested	>
C ccmqa.com[66	6] A	dvanced		Invalid	
				_11	

The CSR for the requested certificate will be generated automatically. After the CSR is created, the approve button will appear at the top when you select the certificate in the list.

🕗 Dashboard 🧕 🤶	Certificates	C Reports	<b>0</b> 2 Admins	Settings	
SSL Certificates Client C	Certificates Code	Signing Certificates	Device Certificate:	5	
<b>Filter</b>					
Add Exp	ort Edit D	etails Approve	Decline Set	Auto Renewal & Inst	allation
COMMON NAME	ORGA		DEPARTMENT	STATUS	EXPIRES
C ccmqa.com[67]	org1			Invalid	
C ccmqa.com[72]	org1			Applied	
Ccmqa.com[68]	org1			Requested	
O_ccmqa.com[66]	Advanc	ed		Invalid	
	Approval Me	<b>V</b> ssage	×		
	*-required	fields			
	Message* SSL Cert for	r <u>ccmga</u> .com is ag	proved		
		OK Canc			

Click the 'Approve' button to approve the request, enter the approval message in the 'Approval Message' dialog and click 'OK'.



On approval, the CSR will be submitted to InCommon CA to apply for the certificate. The certificate status will change to 'Applied'.

🕜 Dashboard	Q Certificates	Discovery	C Reports	<u>0</u> 2 Admins	tii s
SSL Certificates	Client Certificates Co	de Signing Certificate	s Device Certificate	S	
🜱 Filter					
Add	Export Details	Set Auto Renew	al & Installation		
	ME OR	GANIZATION	DEPARTMENT	STATUS	EXPIRE
O ccmqa.com[67]	org1			Invalid	
O ccmqa.com[72]	org1			Issued	01/19/20
Ccmqa.com[68]	org1			Applied	
O ccmqa.com[66]	Adva	nood		Invalid	

The controller will track the order number then collect and store the certificate once it is issued. The certificate status will change to 'Issued'.

🕖 Dashboard 🛛	Certificates	Discovery	C Reports	<u>0</u> 2 Admins	Settings	🔚 About	
SSL Certificates Clien	t Certificates Code	Signing Certificates	Device Certificate	s			
ү Filter							
🔁 🕂 Add E	port Details	Renew	ke Replace	Set Auto Renewal	& Installation		
COMMON NAME	ORG		DEPARTMENT	STATUS	EXPIRES	INSTALL STATE	RENEWAL STATE
ccmqa.com[67]	org1			Invalid		Not scheduled	Notscheduled
ccmqa.com[68]	org1			Issued	01/19/2018	Not scheduled	Not scheduled
ccmqa.com[66]	Advand	ed		Invalid		Not scheduled	Notscheduled
ccmqa.com[69]	org1			Invalid		Not scheduled	Not scheduled

To check whether the controller has stored the certificate:

- Click 'Discovery' > 'Agents'
- Select the controller and click the 'Commands' button

You will see successful execution of 'Store Certificate' command.



🕖 Dashboard 🔵 Certificates	😥 Discovery (	3 Reports	Admins	
Network Assets Discovery Tasks Agen	ts			
Filter				
Download Agent Edit Delete	Nodes Comman	ds		
NAME ALTERNATI	VE NAME ORGANIZATIO	DN DEPARTMENT	ACTIVE	
Agent org1 52	org1			
Commands Queue Schedule history				×
Details Restart				
NAME	▼ DATE	STATE		
Store Certificate	01/18/2017 12:22:20	Successful		
○ Generate Certificate	01/18/2017 12:20:34	Successful		
O Discover Target Servers	01/18/2017 12:18:39	Successful		
O Generate Certificate	01/17/2017 18:56:11	Successful		
O Generate Certificate	01/17/2017 18:54:01	Canceled		March

The certificate is stored on the server by the agent. If you created a schedule for automatic installation in the Schedule step, it will be installed automatically at the scheduled time. If you selected 'Manual', you can initiate the auto-installation process from the 'Certificates' > 'SSL Certificates' interface:

#### To manually initiate auto-installation of a certificate

• Select the certificate from the 'Certificates' > 'SSL Certificates' interface and click 'Install'



🕖 Dashboard 🕺 Certifica	ates 😥 Discovery	🕑 Report	s <u>0</u> 2 Ad	mins				
SSL Certificates Client Certificates	Code Signing Certificates	Device Certi	īcates					
<b>Filter</b>								
Add Export	Details Install Ren	ew Revok	e Set Auto R	lenewal	& Installatio			
	ORGANIZATION	DEPARTMENT	STAT	US	EXPIRE			
ccmqa.com[68]	org1		Issued	1	01/19/20			
O ccmqa.local[52]	org1		Issued	1	<b>01/1</b> 4/20			
O_demo.ccmga.local/601			Issued	1				
Install Certificate					and a second			×
Nodes	- 2 Port	<b>3</b> s	chedule					
Nodes -			chequie					
	Installing cert orde	r numbor 16	76967 Soloot	the pr	ado to install			
	instailing cert orde	i number 10	70007. Select	the no	de lo mstan.			
<b>-------------</b>								
NAME	COMMON NAME	PROTOC	IP ADDRESS	PORT	STATUS	SSL		
Server IIS org1 50					Active			
test.ccmqa.com	fortest.ccmqa.com	HTTPS *	r.	8444	Failed	<u>1675873</u>		
ms1.ccmqa.com	ms1.ccmqa.com	HTTPS *		443	No SSL			
🗹 ccmqa.com	ccmqa.com	HTTPS *		8443	No SSL			
Default Web Site	Default Web Site	HTTP *		80	No SSL			
					15 row	s/page 1 - 1 out	of 1 <	
Close								Next >

The 'Install Certificate' wizard will start with the 'Nodes' interface. The node upon which the certificate is to be installed is pre-selected.

- If you want to install the same certificate to additional nodes or to a different node, select the node(s) as required
- Click 'Next'.

The 'Ports' interface will open.



Install Certificate	×
1 Nodes 2 Port	3 Schedule
ms1.ccmqa.com	443 Default node port will be used. The certificate will be installed on existing ms1.ccmqa.com:443
Close	< Back Next >

Specify the port and click 'Next'. The 'Schedule' interface will open.

Install Certificate	×
1 Nodes 2 Port 3 Schedule	
Install now Certificate installation will be started immediately. O Schedule	Ŷ
Certificate installation will be started during selected time period. Time zone: UTC+00:00 - GMT, UCT, UTC, WET, EGST Start not earlier than: 01/18/2017	
Time Of Day	
Day of Week	
Run Only: 🗌 Monday 🗌 Tuesday 🗌 Wednesday 🗌 Thursday 🗌 Friday 🗌 Saturday 🗌 Sunday	~
Close	< Back OK

- If you want to instantly install the certificate, select 'Install now'
- If you want to install the certificate at a later time, select 'Schedule', then select your time zone, and set a 'not earlier than' date. The certificate will be installed on the server when the controller polls InCommon CM for the first time after the 'Not earlier than' date.
- Click 'OK'

Once installation commences, the 'Install State' of the certificate will change to 'Started':



🕖 Dashboard 🔵 Certifica	ites 😥 Discovery	C Reports	<u>0</u> 2 Admins	Settings	🔚 About	
SSL Certificates Client Certificates	Code Signing Certificate	s Device Certificate	s			
🌱 Filter						
	Details Install R	enew Revoke	Set Auto Renewa	8 Installation		
COMMON NAME	ORGANIZATION	DEPARTMENT	STATUS	EXPIRES	INSTALL STATE	RENEWAL STATE
ccmqa.com[68]	org1		Issued	01/19/2018	Started	Scheduled
C ccmqa.local[52]	org i		issued	01/14/2019	Not scheduled	Not scheduled
demo.ccmqa.local[60]	org2		Issued	01/14/2018	Not scheduled	Not scheduled
o fortest.ccmqa.com[65]	org1		Invalid		Not scheduled	Not scheduled

When installation is complete:

• IIS servers and Tomcat servers - The certificate will be activated immediately and the install state will change to 'Successful'.

🕜 Dashboard	Q Certificates	Discovery	C Reports	<u>0</u> 2 Admins	Settings	🔚 About	
SSL Certificates	Client Certificates	Code Signing Certificates	Device Certificate	S			
<b>Filter</b>							
- Add	Export Deta	ils Install Re	Revoke	Set Auto Renewa	& Installation		
	ME	ORGANIZATION	DEPARTMENT	STATUS	EXPIRES	INSTALL STATE	
ccmqa.com[68]	0	g1		Issued	01/19/2018	Successful	
O ccmga.local[52]		g1		loound	01/14/2019	Not scheduled	

 Apache servers - The certificate will become active after the server is restarted. The install state will change to 'Restart Required'.

🕖 Dashboard	Q Certificates	Discovery	<b>C</b> Reports	<u>0</u> 2 Admins	Settings	📳 About		
SSL Certificates Client Certificates Code Signing Certificates Device Certificates								
<b>Filter</b>								
- Add	Export Deta	ails Install R	Revoke	Set Auto Renewa	& Installation			
COMMON NA	ME	ORGANIZATION	DEPARTMENT	STATUS	EXPIRES	INSTALL STATE		
ccmqa.com[72]	0	rg1		Issued	01/19/2018	Restart Required		
ccmqa.local[52]	0	rgʻi		issued	01/14/2019	Not scheduled		

Administrators can restart the server remotely from the InCommon CM interface by clicking the 'Details' button then 'Restart':

- Select the certificate and click the 'Details' button at the top. The 'Certificate Details' dialog will be displayed.
- Click Restart beside the Server Software State field in the 'Details' dialog



Туре	Instant SSL		
Server Software	Apache/ModSSL	View	Edit
Server Software State	Restart Required	Restart	
Term	1 year		
Owner	admin 1 Resent	d Edit	

After restarting the server, the certificate will activated and the 'Install State' will change to 'Successful'.

- To check whether the controller has installed the certificate, click Discovery > Agents
- Select the controller and click the 'Commands' button

You will see successful execution of 'Install Certificate' command.

Commands		×
Queue Schedule history		
Details Restart		
NAME	▼ DATE	STATE
Store Certificate	01/18/2017 15:43:50	Successful
Install Certificate	01/18/2017 15:07:53	Successful
Store Certificate	01/18/2017 12:22.20	Successful
O Conorato Cortificato	01/18/2017 12:20:34	Successful

• To view command details, select the command and click the 'Details' button at the top.

Details		×
Name	Install Certificate	
Date	01/18/2017 15:07:53	
State	Successful	
Detail Message	SSL Order Number: 1676867 SSL Serial Number: D45EE225D070B23F46D778DD65F64D12 Server Software: Microsoft IIS 5.x	<b>~</b>
	Close	



#### Configuring the Certificate Controller Agent through Web Interface

The Certificate Controller Agent can be configured by logging-in to its web-interface.

#### To access the Agent configuration web interface

Type http://<IP Address/host name of the server on which the agent is installed>:9090 in the address of your browser.

The login dialog will appear:

•

•

Authentication	Required
<b>?</b> User Name:	A username and password are being requested by https:// :9090. The site says: "Use credentials from your CCM account"
Password:	OK Cancel

Enter your InCommon CM username and password.

The Agent configuration interface will open.

gent Configuration				
Connection settings:			Certificate manage	ement settings:
CCM Url: Customer URI:	https://cert-manager.com/customer/i		Key store name: Key store password:	ccm_keystore
	QAs3~7WCJL		Backups dir:	
Poll interval: Retry interval:	60			
Reuy merval.	<ul> <li>✓ Agent autoupdate enable</li> <li>○ Use Proxy</li> </ul>	E		
Host: Port:				
Username:				
Password		+		



It has two tabs:

•

- Agent Configuration
- Server Management

#### **Agent Configuration**

The Agent Configuration tab displays the connection management settings and certificate management settings of the agent and enables the administrator to edit them, if required.

ent Configuration					
onnection setti	ngs:		Certificate management settings:		
CCM Url: Customer URI: Secret key: Poll interval: Retry interval:		*	Key store name: Key store password: Backups dir:	ccm_keystore	
Host: Port: Username: Password	_ USE Floxy				

	Agent Configuration - Table of Parameters					
Field Type Description						
		Connection Settings				
CCM url	Text field	Displays the URL of Certificate Manager server				
Customer URI	Text field	Displays the uniform resource identifier (URI) of the customer				
Secret key	Text field	Displays the secret key unique to the agent, which it uses to identify it to CM. This value should not be altered				



Poll Interval	Text field	Displays the time interval at which the agent polls the CM for new certificate requests (in seconds) and enables the administrator to edit it in edit mode.
Retry interval	Text field	Displays the time interval set for retrying polling on CM server if polling fails (in
		seconds) and enables the administrator to edit it in edit mode.
Agent autoupdate enable	Checkbox	Indicates whether the agent is enabled for auto-update. The checkbox enables the administrator to switch the auto-update on/off in edit mode.
Use Proxy	Checkbox	Indicates whether the agent is configured to use a proxy server. The checkbox and the text fields below it enable the Administrator to instruct the agent to use proxy server and to specify the proxy server details, if required.
Host	Text field	Displays the IP/Host name of the proxy server and enables the Administrator to specify it in edit mode
Port	Text field	Displays the port of the proxy server for the agent to connect and enables the Administrator to specify it in edit mode
Username	Text field	Displays the username of the administrator account to login to the proxy server and enables the Administrator to specify it in edit mode
Password	Text field	Displays the password of the administrator account to login to the proxy server and enables the Administrator to specify it in edit mode
		Certificate Management Settings
Key store name	Text field	The name of the CM keystore file, pertaining to the agent. By default, it will be 'ccm_keystore'. The Administrator can edit it in the edit mode
Keystore password	Text field	The password to access the CM keystore file. The Administrator can edit it in the edit mode
Backup dir	Text field	Displays the folder path for backup of keystore file. The Administrator can edit it in the edit mode.

To edit the agent configuration settings, click the 'Edit' button at the bottom left. The Agent Configuration page will open in edit mode.

٠



Username: Password					
Agent Configuration	Change credentials				
Connection set	ngs:	-	Certificate manag	ement settings:	
CCM Url:	https://cert-manager.com/customer.	<b>^</b>	Key store name:	ccm_keystore	
Customer URI:	static		Key store password:	•••••	
Secret key:	QAs3~7WCJL		Backups dir:	Enter path to backup Server config	
Poll interval:	60				
Retry interval:	30				
	Agent autoupdate enable	E			
	Use Proxy				
Host:					
Port:					
Username:					
Password		+			
Save 🗶	Cancel Change credentials				

• Edit the required fields and click 'Save' for your changes to take effect.

#### Changing Login Credentials for the Agents Configuration Console

By default, the administrator can use the username and password of their CM account to login to the agent configuration. If needed, the administrator can change their username and password for the agent configuration console at any time. **To change the username and password** 

• Click 'Change credentials' from the agent configuration interface.

The 'Change Credentials' dialog will appear.



Po Usemam Passwor		-		
Edit	Change credentials	)		
	Change credentials		×	
	Login:	admin		
	Old Password: New password:	••••		
	Password confirm:	Cancel		

- To change your username, directly edit the Login field
- Enter your existing password in the 'Old Password' field
- Enter your new password in the New password field and reenter it for confirmation in the Password Confirmation field
- Click 'Save'

From the next login to the agent configuration console, you need to use the new username and password.

#### **Server Management**

The Server Management tab enables the administrator to view, add and edit the servers for which the agent is configured.

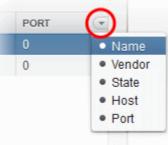


🗞 Refresh	dit 🔀 Delete			
NAME	VENDOR	STATE	HOST	PORT
Server IIS Dithers Company	IIS	RUNNING		0
Server Tom Dithers	TOMCAT	INIT	192.168.111.111	0

The 'Server Management' tab displays the list of servers added to the agent with the vendor and activation status details. The administrator can add new servers and edit the details like the login username and password for the existing servers through this interface.

Column Display	Description
Name	Displays the name of the server.
Vendor	Displays the vendor of the server.
State	Indicates whether or not the server is initialized.
Host	Displays the IP address or the host name of the server for remote connection
Port	Displays the connection port of the server for remote connection.
	Displays the connection port of the server for remote connection. n enable or disable desired columns from the drop-down at the right end of the table h





Controls		
	Add	Enables the Administrator to add a new server to the agent
	Refresh	Updates the list of displayed servers.
Server Controls		
Note: The	Edit	Enables administrators to modify the Server configuration settings.
Server control buttons will appear only on selecting a server.	Delete	Removes the Server.

#### To add a server

• Click 'Add' from the top left. The 'Add new server' dialog will appear.



er Management						
Refresh	Add Edit	Delete				
E		VENDOR	STATE	HOST	PORT	G
ver IIS Dithers Co	mpany	IIS	RUNNING		0	
ver Tom Dithers		TOMCAT	INIT	192.168.111.111	0	
	<b>V</b>					
Add new serv	er					
Server name: *	Enter server name					
Server name: *	Enter server name					
Server vendor: *	TOMCAT	-				
Path:	*optional* Enter path to ton	ncat				
	Remote					
Host:						
HUSI.						
Port:	0					
User name:						
User name: Password:						

Add new server - Table of Parameters						
Field Name	Туре	Description				
Server name	String	Enter the name of the server.				
Server vendor	drop-down	Choose the vendor of the server from the drop-down.				
Path	String	Specify the network path for the Tomcat server. This is required only if the Tomcat server is not accessible from the CM console. Note: This field will appear only of Tomcat server is selected in the Server vendor drop-down.				
Remote	Checkbox	Specify whether the server is Remote or Local. While adding remote servers for agent-less automatic certificate installation, this checkbox should be selected and the login credentials for an administrative account on the server are to be provided.				
Host	String	Specify the IP address or host name of the server for remote connection.				



	Add new server - Table of Parameters					
		Note: This field will be enabled only if 'Remote' is selected.				
Port	String	Specify the connection port of the server for remote connection.				
		Note: This field will be enabled only for remote 'Tomcat' server.				
User Name	String	Enter the username of the administrator for loggin-into the server.				
		Note: This field will be enabled only if 'Remote' is selected.				
Password	String	Enter the log-in password for the administrator account for logging-into the server.				
		Note: This field will be enabled only if 'Remote' is selected.				

• Enter the parameters and click 'OK'.

The new server will be added and enabled for automatic installation of SSL certificates and to run scans for certificate discovery.

#### To edit a server

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• Select the server and click the 'Edit' button that appears on top.

	Add 📜 🗍 Edit	Delete					
IAME Seal-115		VENDOR	STATE	HOST	PORT 💌		
						Test Organization Se	rver
Path:	*optional* Enter path to tomcat						
T dui.	Remote						
Host:	192.168.198.200						
Port	8687						
	Enter remote username						
User name:	Enter remote username						

The Edit server dialog will open. The interface is similar to Add new server interface.

Edit the required fields and click 'OK' for your changes to take effect.