



Comodo Certificate Manager

Version 5.7

Introduction to Auto-Installer

Certificate Manager - Introduction to Auto-Installer

Comodo continuously updates its products and services with innovative technologies to provide the best to its partners and customers alike. This document is intended to introduce partners to the new Auto-Installer feature in Comodo **Certificate Manager** (CCM).

In brief:

- The new feature allows MRAO and RAO admins to automate the remote installation of any SSL certificate on to Apache Httpd, Apache Tomcat and IIS web-servers (more web-server types coming soon).
- The feature is enabled on a per-certificate basis by clicking the 'Add For Auto Install' button in the 'Certificate Management - SSL Certificates' area.
- There are two modes of implementation:

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

1. Enterprise Controller Mode
 - i. Certificate Controller software is installed on a host in your network. This 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 configured to communicate directly with Comodo CA infrastructure through a proxy server.
 - ii. The controller periodically polls CCM for certificate requests for remote servers. If a request exists, it will automatically generate a CSR for the web server and present the application for administrator approval via the CCM interface. On approval, the agent will submit the CSR to Comodo CA and track the order number. Once the certificate is issued by CA, the controller will download the certificate and allow the administrator to install the certificate from the CCM interface.
 - iii. The auto-installation/renewal is enabled for the following server types:
 - Apache2 (httpd)
 - Apache Tomcat
 - IIS 5.0 to 8.0 (Server 2000 - 2008R2)

Refer to the section **Method 1 - Enterprise Controller Mode** for a tutorial on automatic installation of Certificates on remote web servers

2. CCM Controller Mode
 - i. This mode requires an agent to be installed on each of the web servers for which certificate auto-installation/renewal is required.
 - ii. The agent periodically polls CCM for certificate requests for web servers enabled for automatic certificate installation. If a request exists, it will automatically generate a CSR for the web server and present the application for administrator approval via the CCM interface. On approval, the agent will submit the CSR to Comodo CA and track the order number. Once the certificate is issued by the CA, the agent will download the certificate and allow the administrator to install the certificate from the CCM interface.
 - iii. The auto-installation/renewal is available for the following server types:
 - Apache2 (httpd)

- Apache Tomcat
- IIS 5.0 to 8.0 (Server 2000 - 2008R2)

Refer to the section **Method 2 - CCM Controller Mode** for a tutorial on automatic installation of Certificates on web servers.

- If the admin chooses to install:
 - Windows IIS servers - the certificate will be activated immediately and the 'Server Software' state will be changed to 'Active' in CCM
 - Apache servers – the server will need to be restarted to finalize installation. The 'Server Software' state will be changed to 'Restart Required' in CCM
- 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 CCM admin).

The remainder of this document is the portion of Administrator guide of Comodo 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 enables administrators to automatically install certificates on any remote server on the network. Certificate Controller software needs to be installed on a control server and this software will communicate with web-hosts on your network. If a new certificate is required, it will coordinate with the host to generate a CSR, submit it to Comodo CA, collect the certificate and install it. The certificate controller software is accessible through a dedicated web-interface and can be configured to communicate with Comodo CA through a company owned proxy server for additional security.

Certificate Manager Administrator can add remote servers for automatic installation of certificates through 'Discovery' > 'Agents' interface.

Note: The Certificate Controller software (also known as CD Extra Agent) should have been installed on the control server prior to the application for a certificate for a remote server. Refer to the section **5.1.2 Agents** in the Administrator Guide for more details on installing the controller and the section **Configuring the Certificate Controller Agent through Web Interface** for more details on configuring the controller to connect to Comodo CA through a proxy server (optional).

The screenshot shows the Comodo Certificate Manager interface. The top navigation bar includes 'Dashboard', 'Certificates', 'Discovery', 'Reports', 'Admins', and 'Settings'. The 'Discovery' tab is active, showing 'Discovery Tasks' and 'Agents'. The 'Agents' tab is selected, displaying a table of agents. The first agent, 'Agent 123 79', is selected, and the 'Edit' button is circled in red. A red arrow points from the 'Edit' button to the 'Edit Agent' dialog box. In the dialog box, the 'Servers' tab is selected and circled in red. The dialog box contains various fields for agent configuration, including Name, Version, IP address, Local configuration URI, Alternative Name, Active checkbox, Auto update, Organization, Department, Secret Key, Keystore password, and Comments.

Edit Agent (Last activity: 03/23/2015 14:49:54)

Common | CIDR Ranges | **Servers**

*-required fields

Name* Agent 123 79

Version 1.7

IP address 127.0.0.1
0:0:0:0:0:0:1
10.100.93.72
fe80:0:0:0:9819:fc2b:6aa:9cea
fe80:0:0:0:0:5efe:a64:5d48
2001:0:9d38:6ab8:2098:3db:f59b:a2b7

Local configuration URI https://10.100.93.72:9090 ⓘ

Alternative Name Enter agent alternative name

Active ☒

Auto update Enabled

Organization* 123

Department* ANY

Secret Key (min 10 symbols)* iK1Pj3dJ8)

Keystore password eOWI9oZSmX

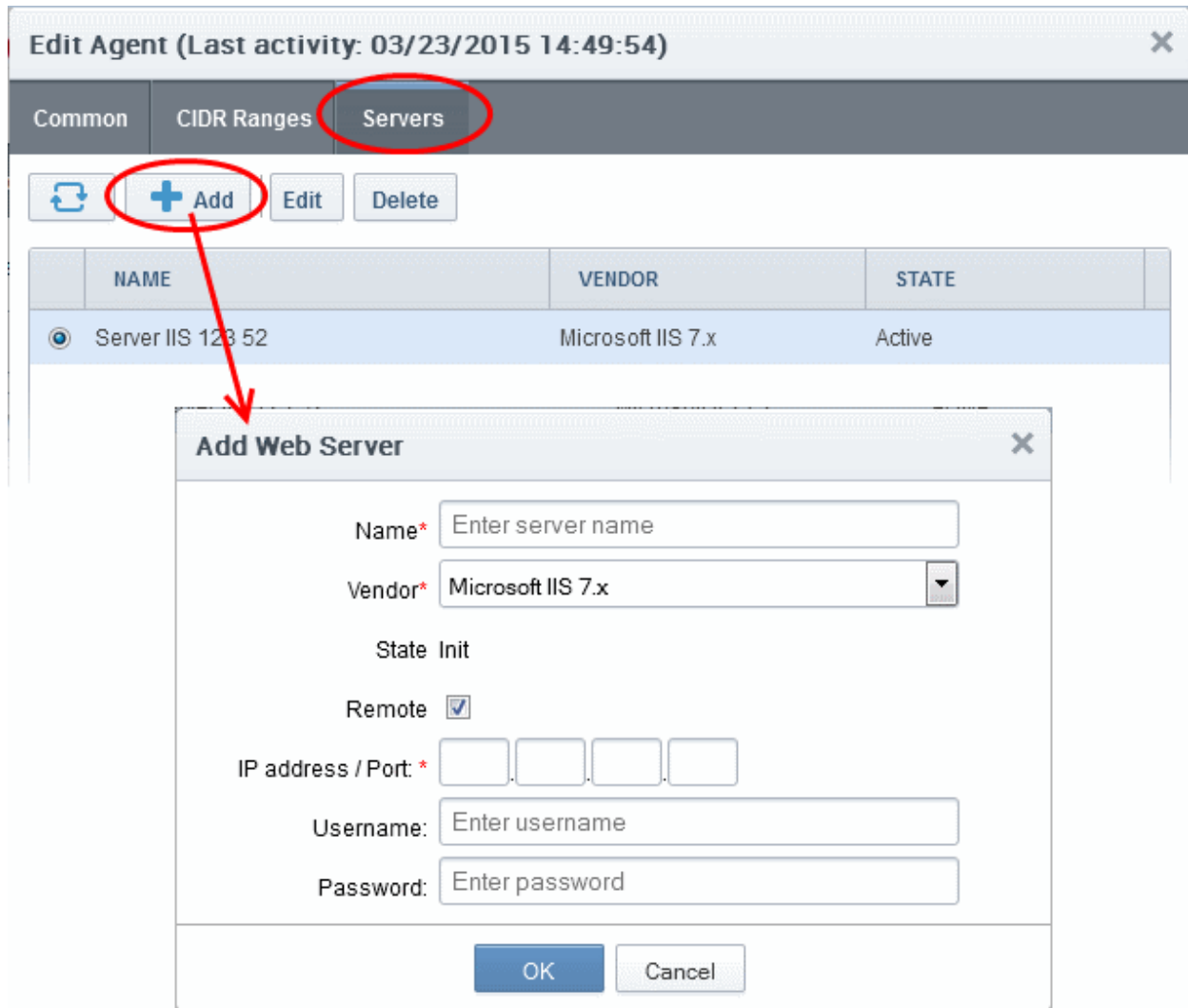
Comments

OK Cancel

- Select the controller and click 'Edit' at the top to open the 'Edit Agent' dialog and choose the Servers tab 'Edit Agent' dialog .

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

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



Add Web Server - Table of Parameters

Field Name	Type	Description
Name	String	Enables the Administrator to enter the name of the server.
Vendor	Drop-down	Enables the Administrator to select the vendor of the server.
State		Indicates whether or not the server is initialized.
Path to web server	String	Enables the Administrator to specify the network path for the server. Required only for Apache 2.x and Apache Tomcat servers.
Remote	Checkbox	Enables the Administrator to specify whether the server is Remote or Local. While adding remote servers for agent-less automatic certificate installation, this checkbox should be selected.
IP Address / Port	String	Enables the Administrator to specify the IP address and connection port of the server for remote connection.

Add Web Server - Table of Parameters		
		Note: This field will be enabled only if 'Remote' is selected.
User Name	String	<p>For IIS server - Enables the Administrator to specify the username of the administrator for logging-into the server.</p> <p>For Apache - Enables the Administrator to specify the private key file path to enable agent to access the server</p> <p>Note: This field will be enabled only if 'Remote' is selected.</p>
Password	String	<p>For IIS server - Enables the Administrator to specify the login password for the administrator account for logging into the server</p> <p>For Apache - Enables the Administrator to specify the passphrase of the private key file path</p> <p>Note: This field will be enabled only if 'Remote' is selected.</p>

- Enter the parameters and click OK. The server will be added to the controller. It will take a few minutes for the server to become 'Active' state.

Edit Agent (Last activity: 03/23/2015 14:49:54) X

Common

CIDR Ranges

Servers

Refresh

+ Add

Edit

Delete

	NAME	VENDOR	STATE
<input type="radio"/>	Server IIS 123 52	Microsoft IIS 7.x	Active
<input checked="" type="radio"/>	Remote Server	Microsoft IIS 7.x	Init

15

rows/page 1 - 2 out of 2

Previous

First

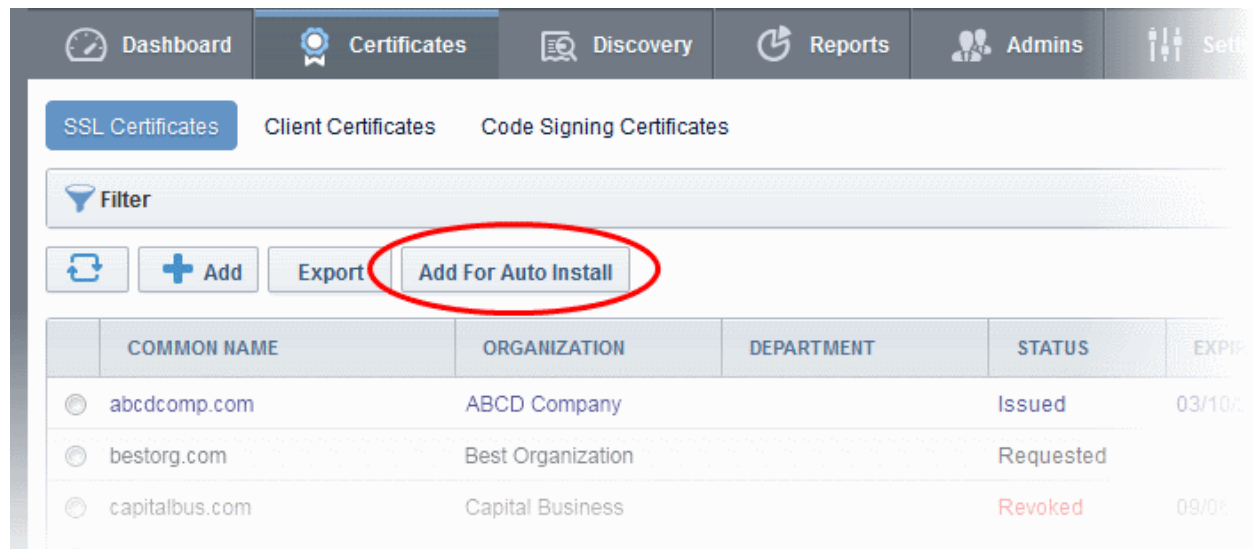
Last

Next

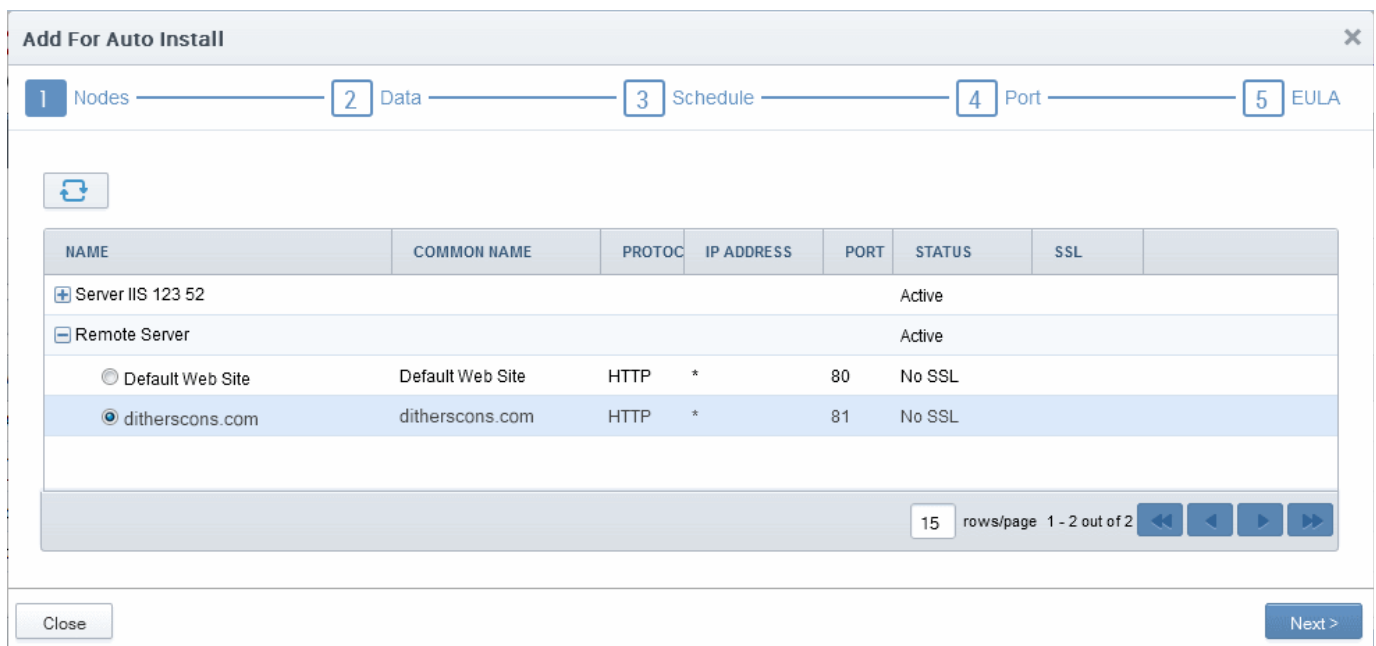
OK

Cancel

Once the remote server is added to the controller, the administrator can apply for the domains hosted from the server through the 'Certificates' > 'SSL Certificates' area of CCM interface by clicking the 'Add For Auto Install' button (as shown).



The 'Add for Auto Install' 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 by them.



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

The Data interface will be displayed enabling you to select the server software and the SSL certificate type.

Add For Auto Install

1 Nodes — 2 **Data** — 3 Schedule — 4 Port — 5 EULA

Server Software: Microsoft IIS 5.x and later

SSL Type: Instant SSL

Term: 1 year

Telephone:

Close < Back Next >

- Select the Server type from the 'Server Software' drop-down.
- Select the SSL certificate type that you wish to order from the 'SSL Type' drop-down. The drop-down will list only the certificate types that are enabled for the Organization.
- Select the term length of the certificate from the 'Term' drop-down.
- Enter the parameter(s) for custom field(s) such as 'Employee Code, Telephone' (if any) added for the SSL enrollment forms.
- Click 'Next'. The 'Schedule' interface will be opened.

Add For Auto Install

1 Nodes — 2 Data — 3 **Schedule** — 4 Port — 5 EULA

☒ **Manual**
Certificate installation must be started manually.

☐ **Schedule**
Certificate installation will be started during selected time period.

Time zone: UTC+05:30 - IST, SLT

Start not earlier than: 04/02/2015 16 : 22

Finish not later than: 04/03/2015 16 : 22

Close < Back Next >

- If you want to manually install the certificate, select 'Manual'
- If you want to install the certificate at a scheduled time, select 'Schedule' and then select your time zone, and set a time period . The Certificate Controller will generate the CSR and submit to Comodo CA, when it polls the CCM for the first time, within the set time period.
- Click Next.
- If you are applying for a SSL certificate for a node with HTTP protocol, the Port interface will open. If you have chosen a node with HTTPS protocol, this step will be skipped and the **EULA interface** will open.

Add For Auto Install

1 Nodes — 2 Data — 3 Schedule — **4 Port** — 5 EULA

Default Web Site: 8443

Default node port will be used. New binding on port 8443 will be created

Close < Back Next >

- Specify the HTTPS port for installing the certificate, (Default = 9443)
- Click 'Next'.

The EULA interface will open.

Add For Auto Install

1 Nodes — 2 Data — 3 Schedule — 4 Port — **5 EULA**

Subscriber Agreement:

1
Comodo ePKI Certificate Manager Agreement – EV Enabled
THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE. PLEASE READ THE AGREEMENT CAREFULLY BEFORE ACCEPTING THE TERMS AND CONDITIONS.

IMPORTANT—PLEASE READ THESE TERMS AND CONDITIONS CAREFULLY BEFORE APPLYING FOR, ACCEPTING, OR USING YOUR COMODO EPKI CERTIFICATE MANAGER ACCOUNT OR THE CERTIFICATE MANAGER SOFTWARE. BY USING, APPLYING FOR, ACCESSING, OR PURCHASING A CERTIFICATE MANAGER ACCOUNT OR USING OR ACCESSING CERTIFICATE MANAGER OR BY ACCEPTING THIS AGREEMENT BY CLICKING ON 'I ACCEPT' BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS LICENSE AGREEMENT AND THAT YOU UNDERSTAND IT, THAT YOU AGREE TO AND ACCEPT THE TERMS AS PRESENTED HEREIN. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT APPLY FOR, ACCEPT, OR CREATE A CERTIFICATE MANAGER ACCOUNT OR USE OR ACCESS CERTIFICATE MANAGER AND CLICK "DECLINE" BELOW.

The terms and conditions set forth below (the "Agreement") constitute a binding agreement between you (the "Company" or "you") and Comodo CA Limited ("Comodo") with respect to your or your employee's creation and use of your Certificate Manager account and the related software. To receive the Services, you must agree to these terms and conditions. You agree that any failure to abide by these terms and conditions shall void any and all obligations of Comodo hereunder.

Print

☒ **I agree.*** Scroll to bottom of the agreement to activate check box.

Close < Back OK

- Read the EULA fully and accept to it by 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'.

+

Add

Export

Add For Auto Install

	COMMON NAME	ORGANIZATION	DEPARTMENT	▲ STATUS	EXPIRES	SERVER SOFTWARE	
<input type="radio"/>	abcdamp.com	ABCD Company		Requested			
<input checked="" type="radio"/>	ditherscons.com *	Dithers Construction Company	Purchases Department	Requested			
<input type="radio"/>	drake.com	Drake		Requested			
<input type="radio"/>	elegant.com	Elegant	Purchases Department	Requested			
<input type="radio"/>	fatcat.com	Fat Cat		Requested			

5

rows/page 6 - 10 out of 50333

◀◀

◀

▶

▶▶

- The CSR for the requested certificate will be generated automatically. On successful creation of CSR, the 'Approve' button will appear at the top, on selecting the certificate.

+ Add

Export

Add For Auto Install

Edit

Details

Approve

Decline

	COMMON NAME	ORGANIZATION	DEPARTMENT	▲ STATUS	EXPIRES	SERVER SOFTWARE	
<input type="radio"/>	abcdamp.com	ABCD Company		Requested			
<input checked="" type="radio"/>	ditherscons.com *	Dithers Construction Company	Purchases Department	Requested			
<input type="radio"/>	drake.com	Drake		Requested			
<input type="radio"/>	elegant.com	Elegant	Purchases Department	Requested			
<input type="radio"/>	fatcat.com	Fat Cat		Requested			

5

rows/page 6 - 10 out of 50333

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

Approval Message

*-required fields

Message*

SSL certificate for ditherscons.com is approved

OK

Cancel

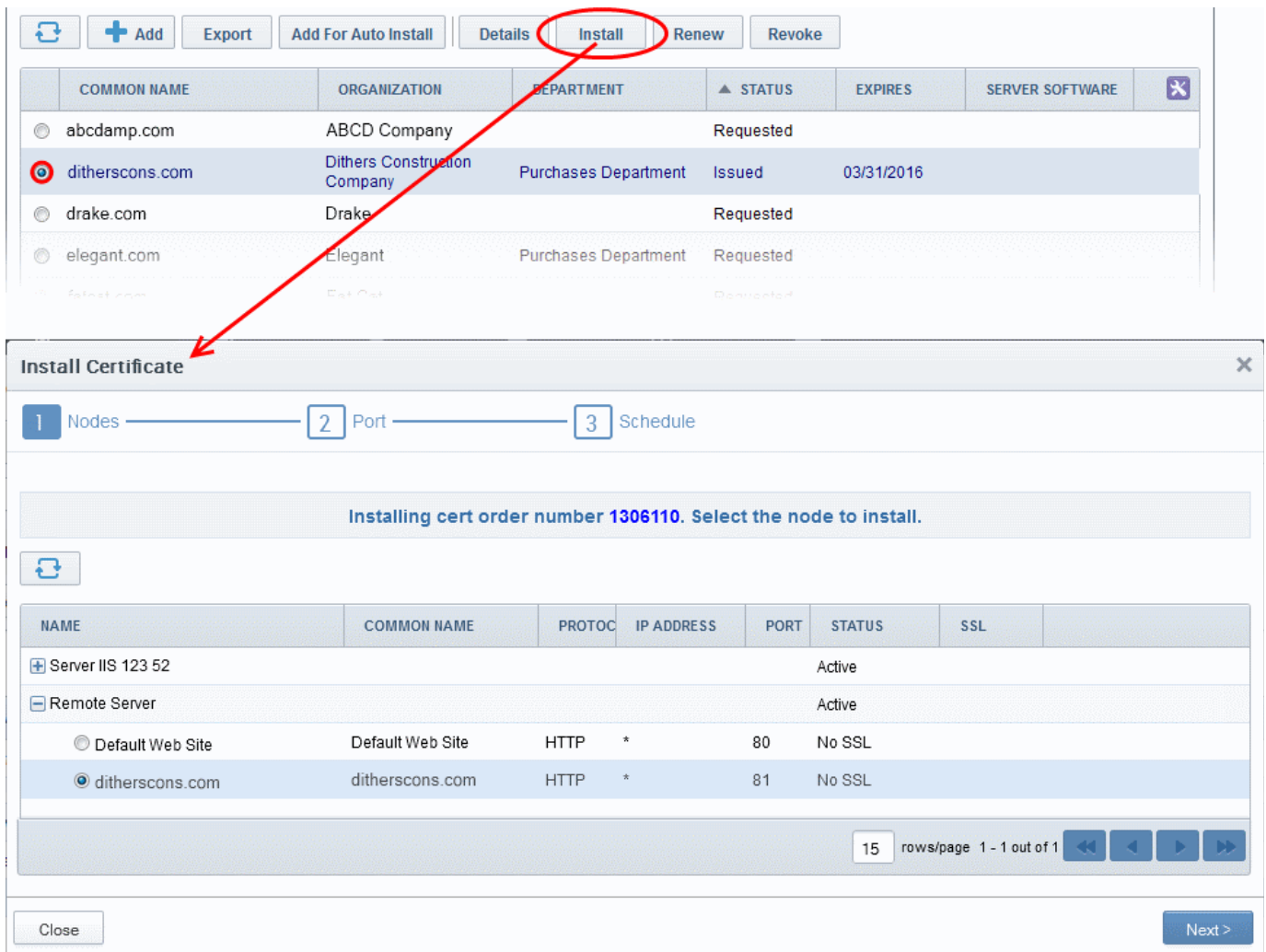
On approval, the CSR will be submitted to Comodo CA to apply for the certificate. The certificate status will be changed to 'Applied'.

The screenshot shows the Comodo Certificate Manager interface. The top navigation bar includes Dashboard, Certificates, Discovery, Reports, and Admins. The 'Discovery' tab is active, showing 'Discovery Tasks' and 'Agents'. A filter is applied. Below the filter, there are buttons for Download Agent, Edit, Delete, Nodes, and Commands. The 'Commands' button is circled in red. Below the buttons, there is a table with columns: NAME, ALTERNATIVE NAME, ORGANIZATION, DEPARTMENT, and A. The first row is 'Agent 123 79' with '123' in the ORGANIZATION column. A red circle highlights the first row. A red arrow points from the 'Commands' button to the 'Commands' window. The 'Commands' window has tabs for Queue, Schedule, and Schedule history. The 'Queue' tab is active. Below the tabs, there is a table with columns: NAME, DATE, and STATE. The table contains four rows: 'Store Certificate' (04/06/2015 12:29:40, Successful), 'Generate Certificate' (04/06/2015 12:06:49, Successful), 'Discover Target Servers' (04/06/2015 11:44:38, Successful), and 'Discover Target Servers' (04/06/2015 11:28:40, Partially Successful). A red circle highlights the first three rows. At the bottom of the window, there is a 'Close' button.

NAME	ALTERNATIVE NAME	ORGANIZATION	DEPARTMENT	A
Agent 123 79		123		

NAME	DATE	STATE
Store Certificate	04/06/2015 12:29:40	Successful
Generate Certificate	04/06/2015 12:06:49	Successful
Discover Target Servers	04/06/2015 11:44:38	Successful
Discover Target Servers	04/06/2015 11:28:40	Partially Successful

- To install the certificate on to the remote server, select the certificate and click 'Install' from the 'Certificates' interface.



The screenshot shows the Certificate Manager interface. At the top, there are buttons: Refresh, Add, Export, Add For Auto Install, Details, **Install** (circled in red), Renew, and Revoke. Below these is a table of certificates:

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

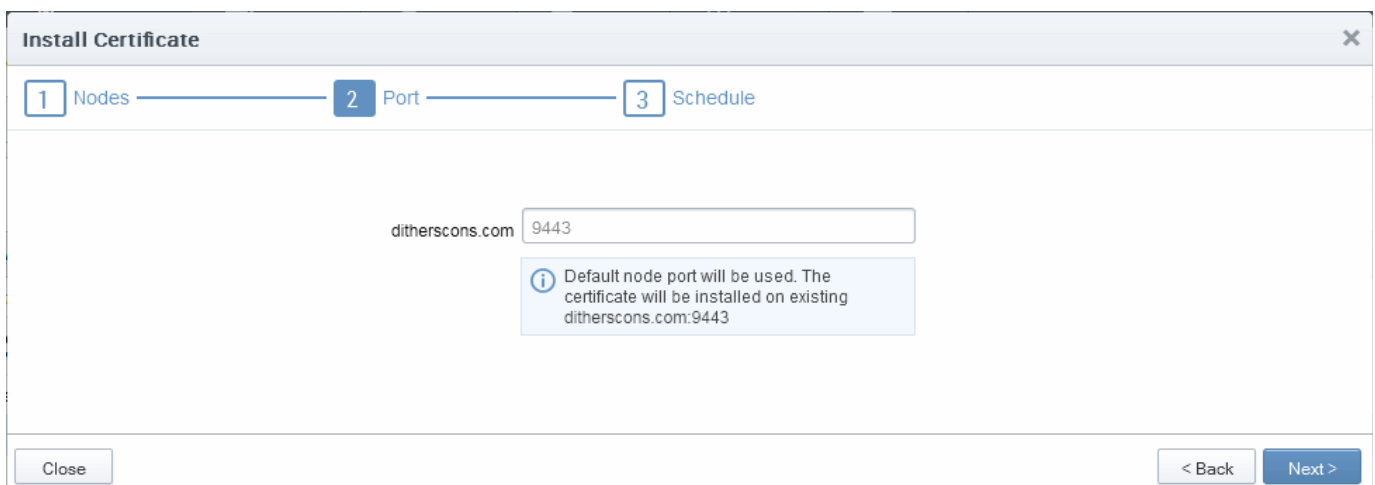
Below the table is the 'Install Certificate' dialog box. It has three tabs: 1 Nodes, 2 Port, and 3 Schedule. The 'Nodes' tab is active, showing a message: 'Installing cert order number 1306110. Select the node to install.' Below this is a table of nodes:

NAME	COMMON NAME	PROTOCOL	IP ADDRESS	PORT	STATUS	SSL
Server IIS 123 52					Active	
Remote Server					Active	
Default Web Site	Default Web Site	HTTP	*	80	No SSL	
ditherscons.com	ditherscons.com	HTTP	*	81	No SSL	

At the bottom of the dialog box, there is a 'Close' button and a 'Next >' button.

The 'Install Certificate' dialog will be displayed with the nodes interface opened. 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'.
- If you have chosen to install the certificate on to a node with HTTP protocol, the 'Port' interface will open to specify the HTTPS port on to which the certificate has to be installed. If you have chosen a node with HTTPS protocol, this step will be skipped and the **Schedule interface** will open.



The screenshot shows the 'Install Certificate' dialog box with the 'Port' tab selected. The 'Nodes' tab is also visible. The 'Port' tab shows a text input field for the port number, with '9443' entered. A message box indicates that the default node port will be used.

Default node port will be used. The certificate will be installed on existing ditherscons.com:9443

At the bottom of the dialog box, there is a 'Close' button and a 'Next >' button.

Commands

Queue

Schedule

Schedule history

	NAME	DATE	STATE
<input type="radio"/>	Install Certificate	04/06/2015 12:59:56	Successful
<input type="radio"/>	Store Certificate	04/06/2015 12:29:40	Successful
<input type="radio"/>	Generate Certificate	04/06/2015 12:06:49	Successful
<input type="radio"/>	Discover Target Servers	04/06/2015 11:44:38	Successful
<input type="radio"/>	Discover Target Servers	04/06/2015 11:28:40	Partially Successful

15

rows/page

1 - 5 out of 5

Close

- To view the details of the command, select the command and click the 'Details' button from the top.

Commands

Queue

Schedule

Schedule history

Details

Cancel

	NAME	DATE	STATE
<input checked="" type="radio"/>	Install Certificate	04/06/2015 12:59:56	Successful
<input type="radio"/>	Store Certificate	04/06/2015 12:29:40	Successful
<input type="radio"/>	Generate Certificate	04/06/2015 12:06:49	Successful
<input type="radio"/>	Discover Target Servers	04/06/2015 11:44:38	Successful
<input type="radio"/>	Discover Ta		

Details

Name

Install Certificate

Date

04/06/2015 12:59:56

State

Successful

Detail Message

SSL Order Number: 1306110

SSL Serial Number:

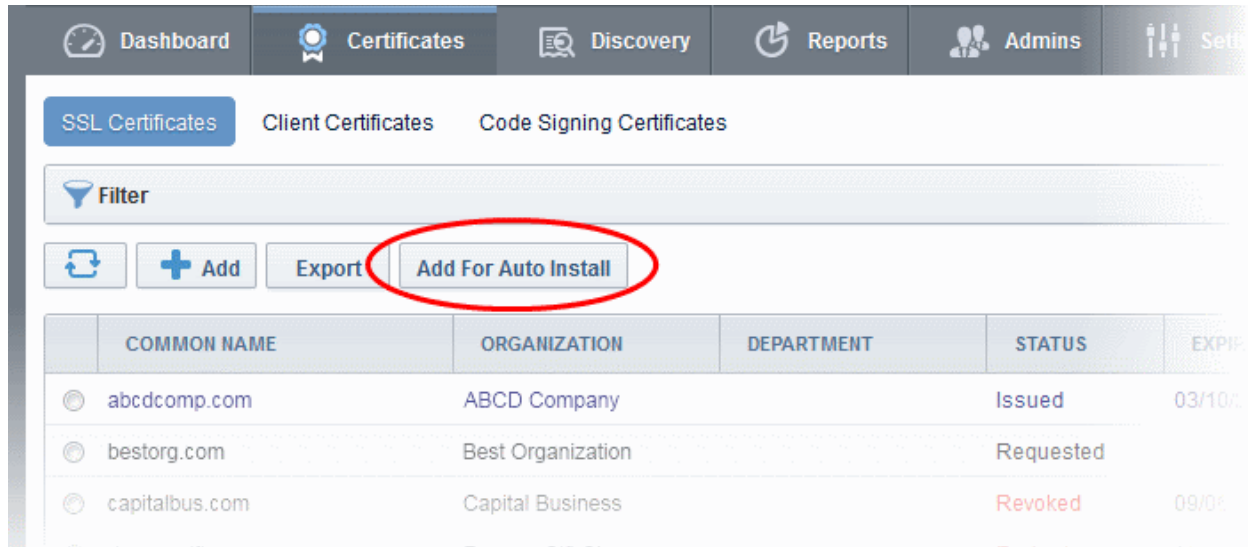
49740C0284F8B8C2B9C119124F3E1111

Close

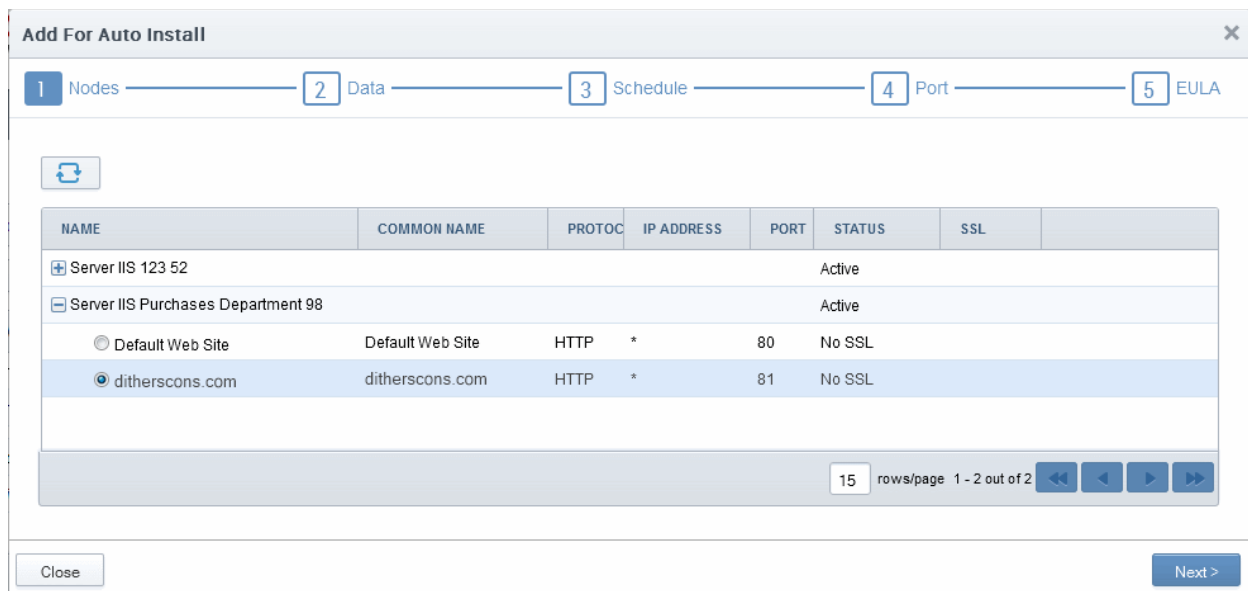
Method 2 - CCM Controller Mode

Certificate Manager administrators can apply for new certificates for domains hosted from different web servers, directly from the 'Certificates' - 'SSL Certificates' area. The CCM Controller Mode requires an agent to be installed on each web server upon which the certificates are to be auto-installed/renewed.

- To apply for a certificate click the 'Add For Auto Install' button (as shown).



The 'Add for Auto Install' dialog will be displayed with the 'Nodes' interface opened. The 'Nodes' interface displays a list of Agents installed in your servers for different Organizations and Departments, with the list of server nodes under each Agent.



- Select the domain for which you wish to install a SSL certificate and click Next.

The Data interface will be displayed enabling you to select the server software and the SSL certificate type.

Add For Auto Install

1 Nodes — 2 Data — 3 Schedule — 4 Port — 5 EULA

Server Software: Microsoft IIS 5.x and later

SSL Type: Instant SSL

Term: 1 year

Telephone:

Close < Back Next >

- Select the Server type from the 'Server Software' drop-down.
- Select the SSL certificate type that you wish to order from the 'SSL Type' drop-down. The drop-down will list only the certificate types that are enabled for the Organization.
- Select the term length of the certificate from the 'Term' drop-down.
- Enter the parameter(s) for custom field(s) such as 'Employee Code, Telephone' (if any) added for the SSL enrollment forms.
- Click 'Next'. The 'Schedule' interface will be opened.

Add For Auto Install

1 Nodes — 2 Data — 3 Schedule — 4 Port — 5 EULA

☒ **Manual**
Certificate installation must be started manually.

☐ **Schedule**
Certificate installation will be started during selected time period.

Time zone: UTC+05:30 - IST, SLT

Start not earlier than: 04/02/2015 16 : 22

Finish not later than: 04/03/2015 16 : 22

Close < Back Next >

- If you want to manually install the certificate, select 'Manual'
- If you want to install the certificate at a scheduled time, select 'Schedule' and then select your time zone, and set a time period . The CSR will be generated and submitted to Comodo CA, during the first polling by the Agent, within the set time period.
- Click 'Next'.
- If you are applying for a SSL certificate for a node with HTTP protocol, the Port interface will open. If you have chosen a node with HTTPS protocol, this step will be skipped and the **EULA interface** will open.

Add For Auto Install

1 Nodes — 2 Data — 3 Schedule — **4 Port** — 5 EULA

Default Web Site: 8443

Default node port will be used. New binding on port 8443 will be created

Close < Back Next >

- Specify the HTTPS port for installing the certificate, (Default = 8443)
- Click 'Next'. The EULA interface will open

Add For Auto Install

1 Nodes — 2 Data — 3 Schedule — 4 Port — **5 EULA**

Subscriber Agreement:

1
Comodo ePKI Certificate Manager Agreement – EV Enabled
THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE. PLEASE READ THE AGREEMENT CAREFULLY BEFORE ACCEPTING THE TERMS AND CONDITIONS.

IMPORTANT—PLEASE READ THESE TERMS AND CONDITIONS CAREFULLY BEFORE APPLYING FOR, ACCEPTING, OR USING YOUR COMODO EPKI CERTIFICATE MANAGER ACCOUNT OR THE CERTIFICATE MANAGER SOFTWARE. BY USING, APPLYING FOR, ACCESSING, OR PURCHASING A CERTIFICATE MANAGER ACCOUNT OR USING OR ACCESSING CERTIFICATE MANAGER OR BY ACCEPTING THIS AGREEMENT BY CLICKING ON 'I ACCEPT' BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS LICENSE AGREEMENT AND THAT YOU UNDERSTAND IT, THAT YOU AGREE TO AND ACCEPT THE TERMS AS PRESENTED HEREIN. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT APPLY FOR, ACCEPT, OR CREATE A CERTIFICATE MANAGER ACCOUNT OR USE OR ACCESS CERTIFICATE MANAGER AND CLICK "DECLINE" BELOW.

The terms and conditions set forth below (the "Agreement") constitute a binding agreement between you (the "Company" or "you") and Comodo CA Limited ("Comodo") with respect to your or your employee's creation and use of your Certificate Manager account and the related software. To receive the Services, you must agree to these terms and conditions. You agree that any failure to abide by these terms and conditions shall void any and all obligations of Comodo hereunder.

Print

☒ I agree.* Scroll to bottom of the agreement to activate check box.

Close < Back OK

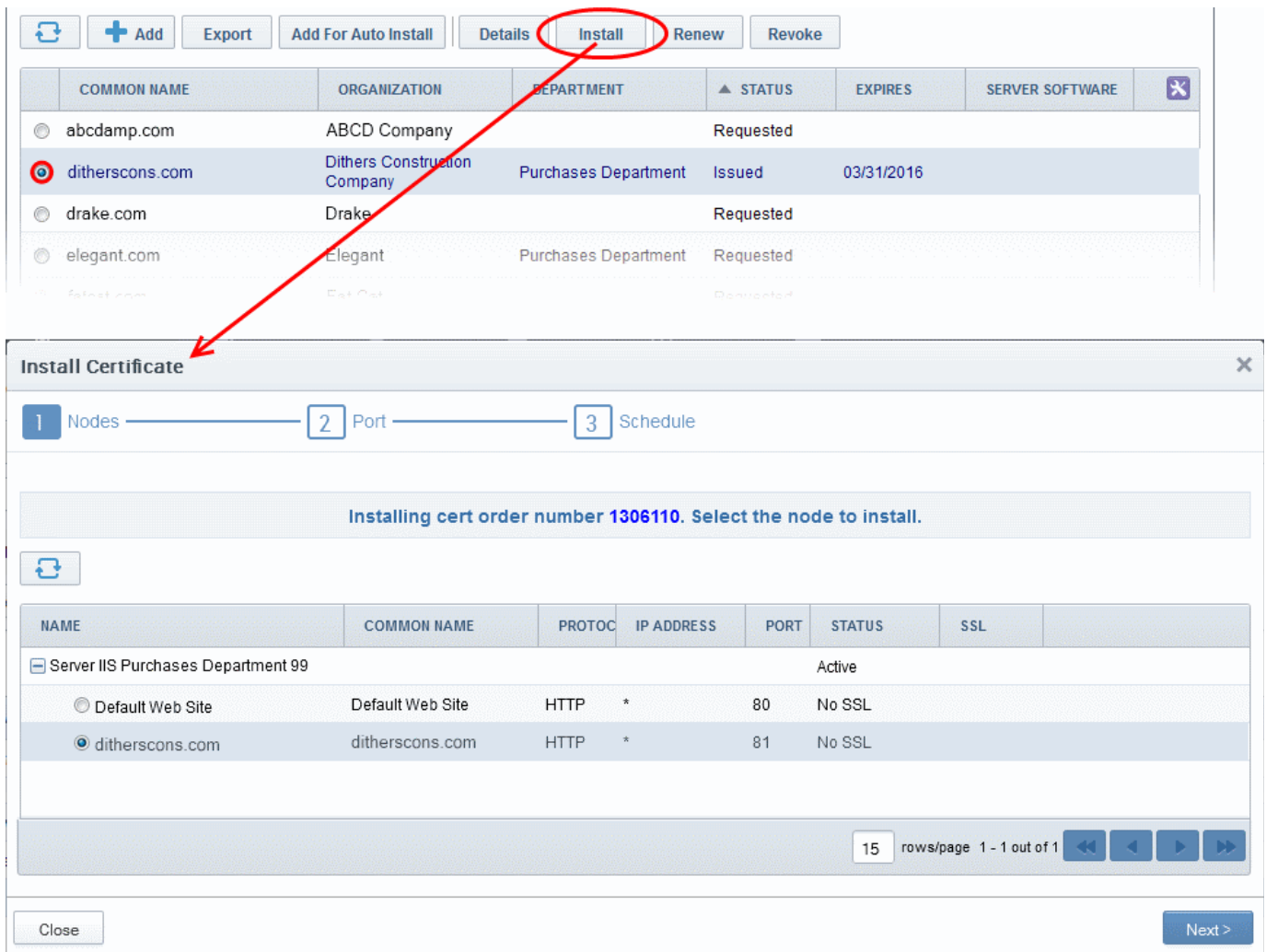
- Read the EULA fully and accept to it by selecting 'I Agree' checkbox.
- Click 'OK' to save your application.

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

The screenshot shows the Comodo Certificate Manager interface. The top navigation bar includes Dashboard, Certificates, Discovery, Reports, Admins, Settings, and About. The main section is titled 'Discovery Tasks' with a sub-tab 'Agents'. Below this is a 'Filter' section and a toolbar with buttons: Download Agent, Edit, Delete, Nodes, and Commands. The 'Commands' button is circled in red. A red arrow points from this button to a 'Commands' modal window. The modal has tabs for Queue, Schedule, and Schedule history. The 'Queue' tab is active, showing a table of commands. The first two rows are circled in red: 'Store Certificate' and 'Generate Certificate'. The table has columns for NAME, DATE, and STATE.

NAME	DATE	STATE
Store Certificate	04/06/2015 12:29:40	Successful
Generate Certificate	04/06/2015 12:06:49	Successful
Discover Target Servers	04/06/2015 11:44:38	Successful
Discover Target Servers	04/06/2015 11:28:40	Partially Successful

- To install the certificate, click 'Install' from the 'Certificates' interface.



The screenshot shows the Certificate Manager interface. At the top, there are buttons: Refresh, Add, Export, Add For Auto Install, Details, **Install** (circled in red), Renew, and Revoke. Below these is a table of certificates:

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

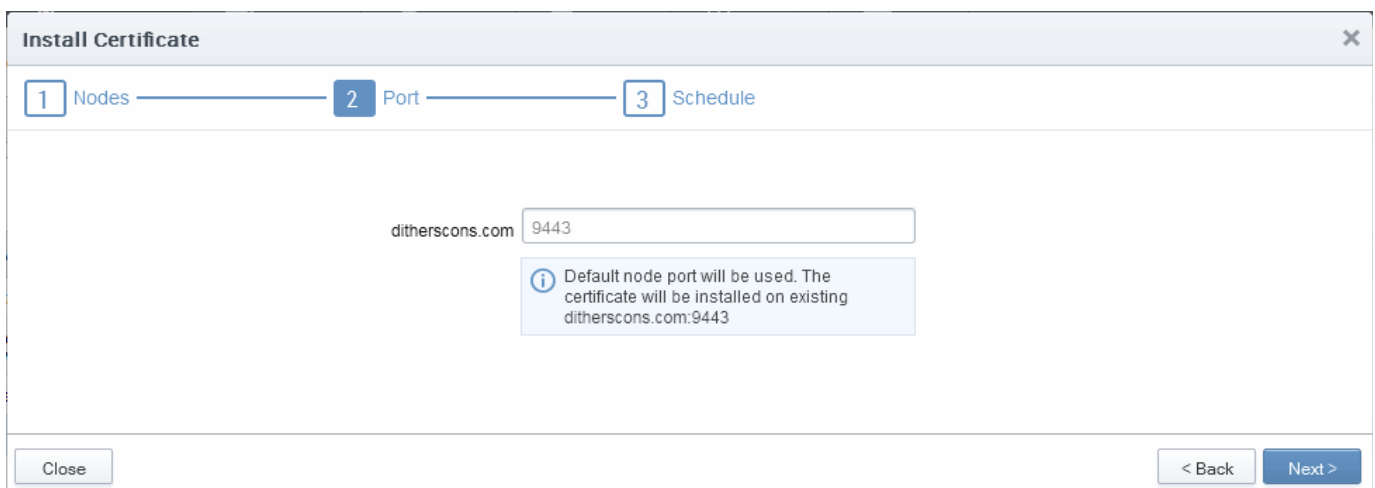
Below the table is the 'Install Certificate' dialog box. It has a title bar with a close button. Inside, there are three tabs: 1 Nodes, 2 Port, and 3 Schedule. The 'Nodes' tab is active. It displays a message: 'Installing cert order number 1306110. Select the node to install.' Below this is a table of nodes:

NAME	COMMON NAME	PROTOCOL	IP ADDRESS	PORT	STATUS	SSL
Server IIS Purchases Department 99 Active						
Default Web Site	Default Web Site	HTTP	*	80	No SSL	
ditherscons.com	ditherscons.com	HTTP	*	81	No SSL	

At the bottom of the dialog box, there is a 'Close' button and a 'Next >' button.

The 'Install Certificate' dialog will be displayed with the nodes interface opened. 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'.
- If you have chosen to install the certificate on to a node with HTTP protocol, the 'Port' interface will open to specify the HTTPS port on to which the certificate has to be installed. If you have chosen a node with HTTPS protocol, this step will be skipped and the **Schedule interface** will open.



The screenshot shows the 'Install Certificate' dialog box with the 'Port' tab selected. The 'Nodes' tab is also visible. The 'Port' tab shows the selected node 'ditherscons.com' and the port '9443'.

Below the node selection, there is a message box:

i Default node port will be used. The certificate will be installed on existing ditherscons.com:9443

At the bottom of the dialog box, there is a 'Close' button and a 'Next >' button.

Commands

Queue

Schedule

Schedule history

	NAME	DATE	STATE
<input type="radio"/>	Install Certificate	04/06/2015 12:59:56	Successful
<input type="radio"/>	Store Certificate	04/06/2015 12:29:40	Successful
<input type="radio"/>	Generate Certificate	04/06/2015 12:06:49	Successful
<input type="radio"/>	Discover Target Servers	04/06/2015 11:44:38	Successful
<input type="radio"/>	Discover Target Servers	04/06/2015 11:28:40	Partially Successful

15

rows/page

1 - 5 out of 5

Close

- To view the details of the command, select the command and click the 'Details' button from the top.

Commands

Queue

Schedule

Schedule history

Details

Cancel

	NAME	DATE	STATE
<input checked="" type="radio"/>	Install Certificate	04/06/2015 12:59:56	Successful
<input type="radio"/>	Store Certificate	04/06/2015 12:29:40	Successful
<input type="radio"/>	Generate Certificate	04/06/2015 12:06:49	Successful
<input type="radio"/>	Discover Target Servers	04/06/2015 11:44:38	Successful
<input type="radio"/>	Discover Target Servers	04/06/2015 11:28:40	Partially Successful

Details

Name

Install Certificate

Date

04/06/2015 12:59:56

State

Successful

Detail Message

SSL Order Number: 1306110

SSL Serial Number:

49740C0284F8B8C2B9C119124F3E1111

Close

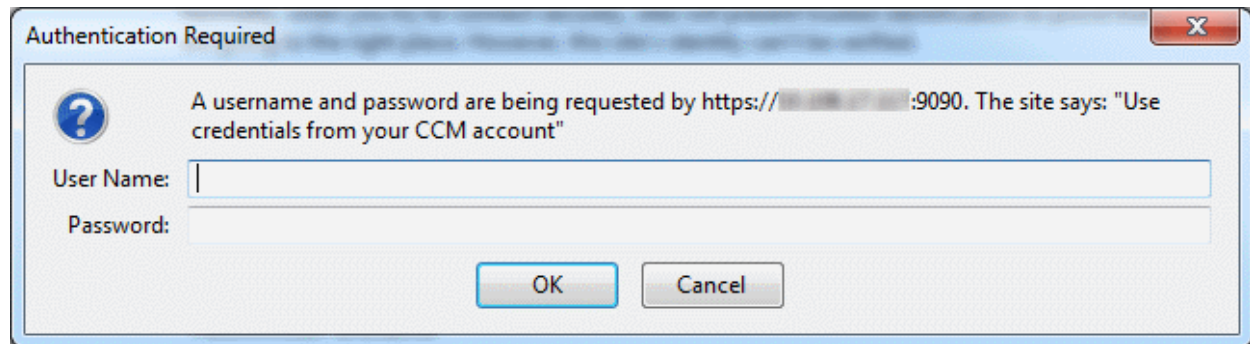
Configuring the Certificate Controller Agent through Web Interface

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

To access the Agent configuration web interface

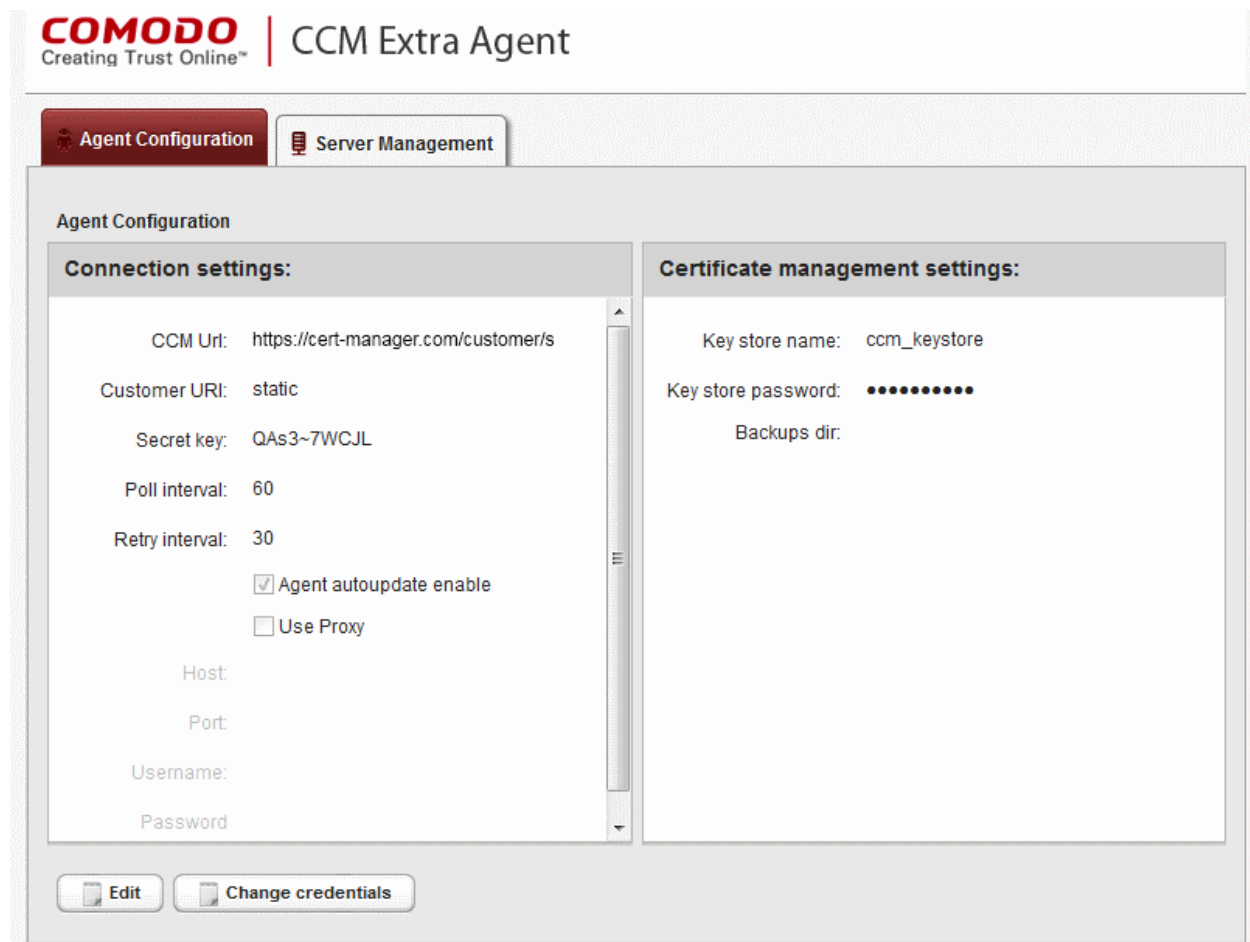
- Type `http://<IP Address/host name of the server on which the agent is installed>:9090` in the address of your browser.

The login dialog will appear:



- Enter your CCM username and password.

The Agent configuration interface will open.



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.

COMODO | CCM Extra Agent
Creating Trust Online™

Agent Configuration | **Server Management**

Agent Configuration

Connection settings:

CCM Url: https://cert-manager.com/customer/s

Customer URI: static

Secret key: QAs3~7WCJL

Poll interval: 60

Retry interval: 30

☒ Agent autoupdate enable

☐ Use Proxy

Host:

Port:

Username:

Password:

Certificate management settings:

Key store name: ccm_keystore

Key store password:

Backups dir:

Edit **Change credentials**

Agent Configuration - Table of Parameters

Field	Type	Description
Connection Settings		
CCM url	<i>Text field</i>	Displays the URL of CCM server
Customer URI	<i>Text field</i>	Displays the uniform resource identifier (URI) of the customer
Secret key	<i>Text field</i>	Displays the secret key unique to the agent, which it uses to identify it to CCM. This value should not be altered
Poll Interval	<i>Text field</i>	Displays the time interval at which the agent polls the CCM for new certificate requests (in seconds) and enables the administrator to edit it in edit mode.
Retry interval	<i>Text field</i>	Displays the time interval set for retrying polling on CCM server if polling fails (in seconds) and enables the administrator to edit it in edit mode.

Agent autoupdate enable	<i>Checkbox</i>	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	<i>Checkbox</i>	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	<i>Text field</i>	Displays the IP/Host name of the proxy server and enables the Administrator to specify it in edit mode
Port	<i>Text field</i>	Displays the port of the proxy server for the agent to connect and enables the Administrator to specify it in edit mode
Username	<i>Text field</i>	Displays the username of the administrator account to login to the proxy server and enables the Administrator to specify it in edit mode
Password	<i>Text field</i>	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	<i>Text field</i>	The name of the CCM keystore file, pertaining to the agent. By default, it will be 'ccm_keystore'. The Administrator can edit it in the edit mode
Keystore password	<i>Text field</i>	The password to access the CCM keystore file. The Administrator can edit it in the edit mode
Backup dir	<i>Text field</i>	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.

Username:
Password:

Edit **Change credentials**

COMODO | CCM Extra Agent
Creating Trust Online™

Agent Configuration **Server Management**

Agent Configuration

Connection settings:

CCM Uri:

Customer Uri:

Secret key:

Poll interval:

Retry interval:

☒ Agent autoupdate enable

☐ Use Proxy

Host:

Port:

Username:

Password:

Certificate management settings:

Key store name:

Key store password:

Backups dir:

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 CCM 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.

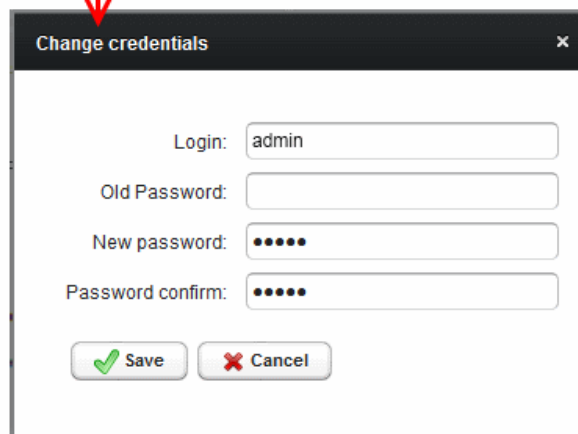
To change the username and password

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

The 'Change Credentials' dialog will appear.



Port:
Username:
Password:



Change credentials [X]

Login:

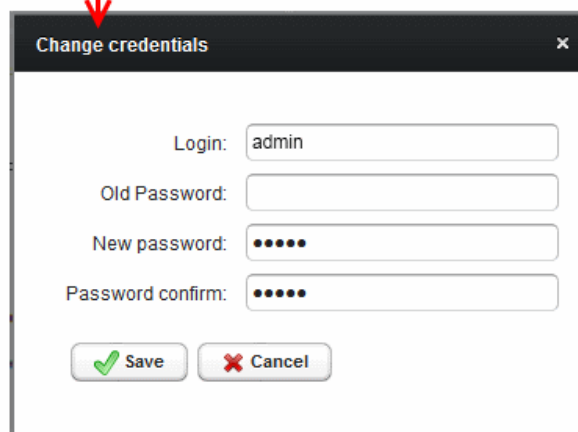
Old Password:

New password:

Password confirm:



Port:
Username:
Password:



Change credentials [X]

Login:

Old Password:

New password:

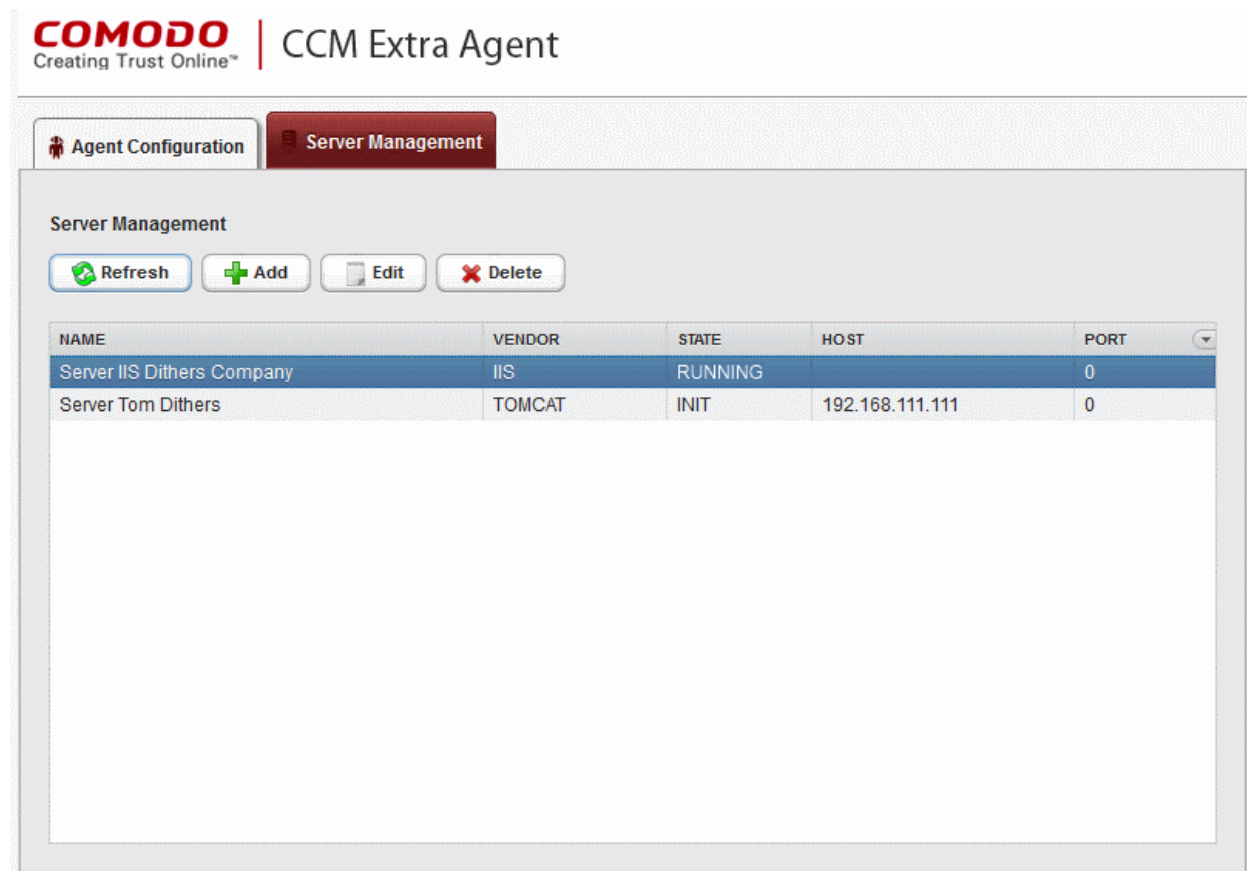
Password confirm:

- 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.

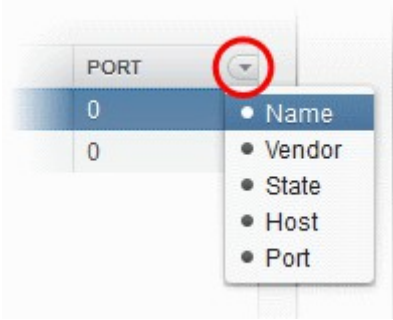
Server Management

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



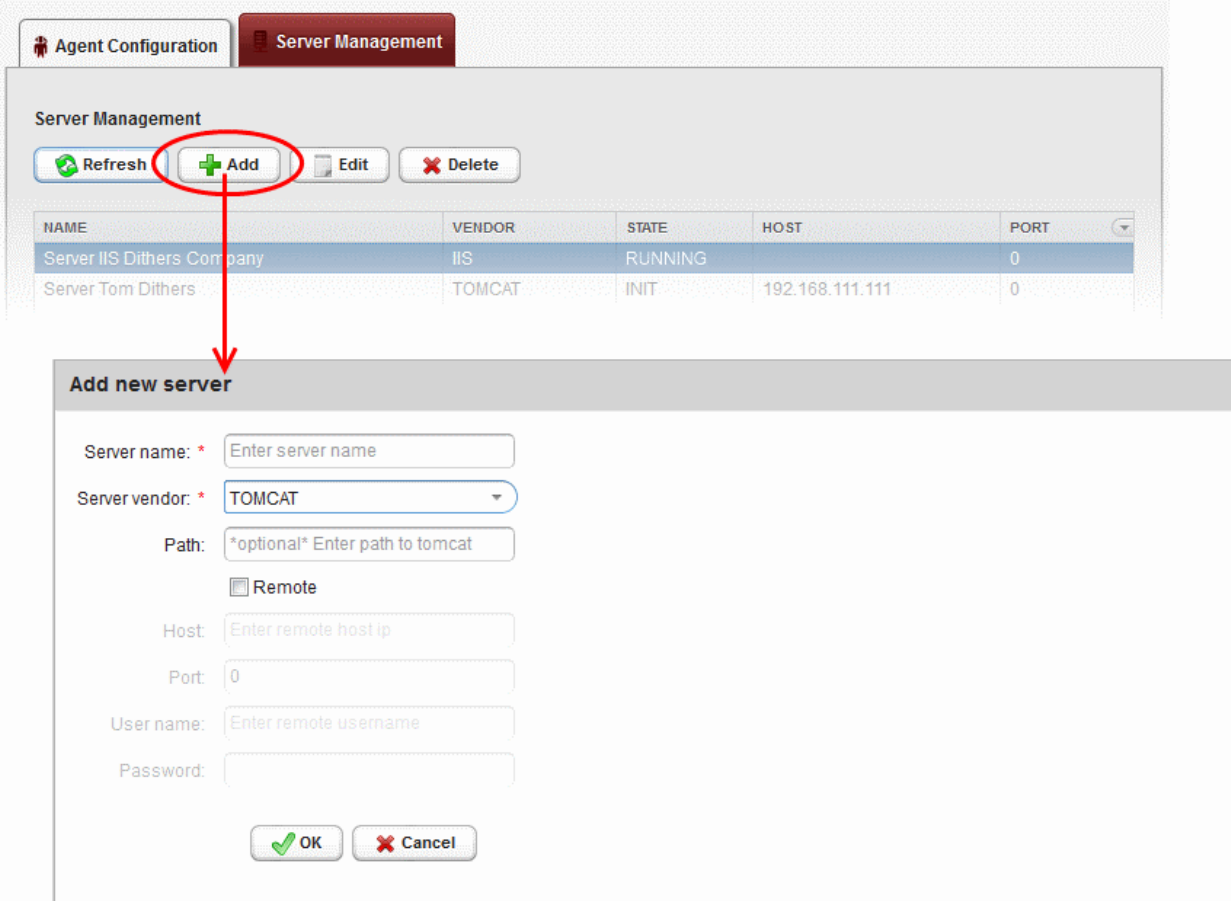
The 'Server Management' tab displays the list of servers added to the agent with the vendor and activation status details. The administrator can add new servers and edit the details like the login username and password for the existing servers through this interface.

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.
Note: The administrator can enable or disable desired columns from the drop-down at the right end of the table header:	

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

To add a server

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



Server Management

Refresh Add Edit Delete

NAME	VENDOR	STATE	HOST	PORT
Server IIS Dithers Company	IIS	RUNNING		0
Server Tom Dithers	TOMCAT	INIT	192.168.111.111	0

Add new server

Server name: *

Server vendor: *

Path: *optional*

☐ Remote

Host:

Port:

User name:

Password:

OK Cancel

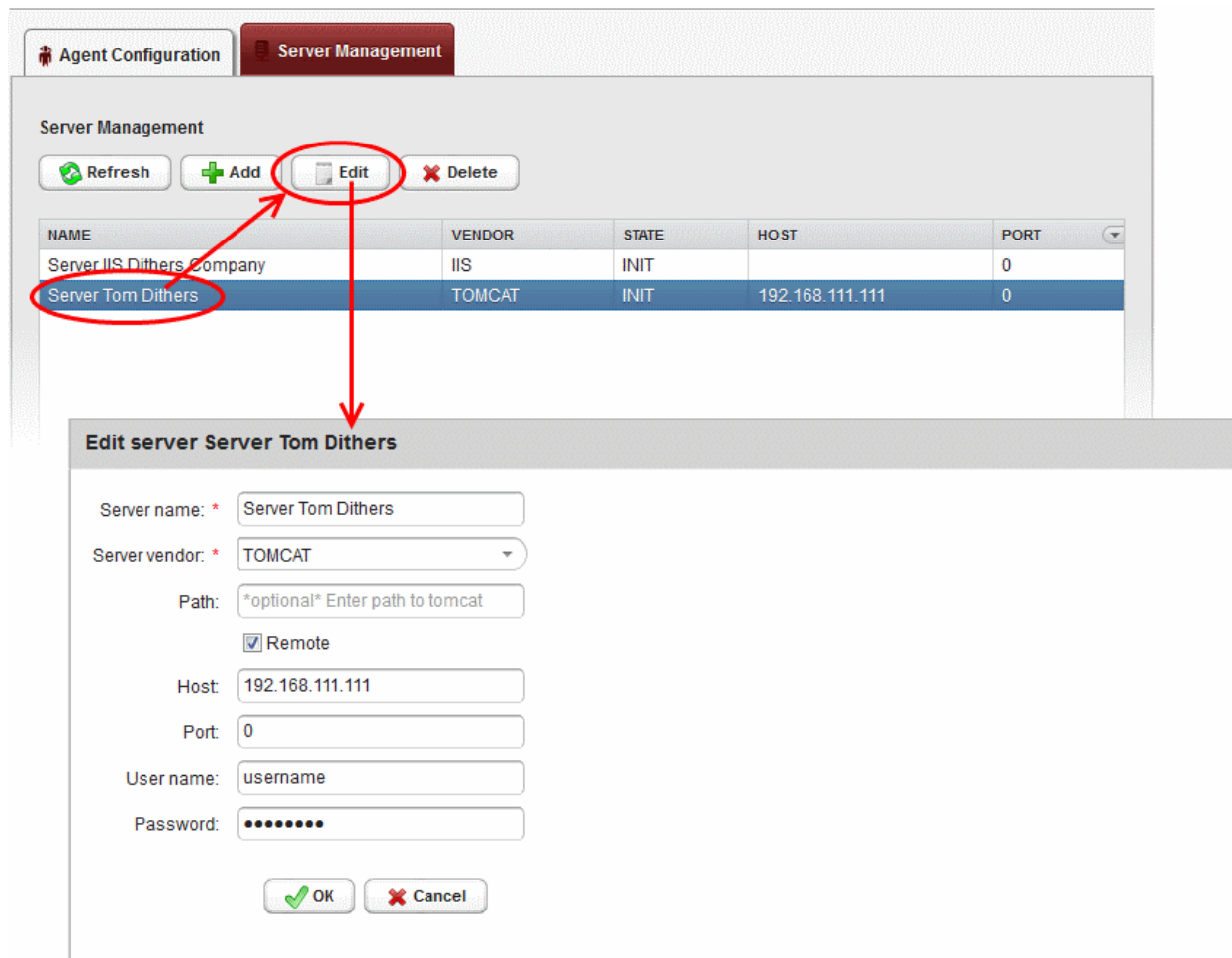
Add new server - Table of Parameters		
Field Name	Type	Description
Server name	String	Enter the name of the server.
Server vendor	drop-down	Choose the vendor of the server from the drop-down.
Path	String	Specify the network path for the Tomcat server. This is required only if the Tomcat server is not accessible from the CCM console. Note: This field will appear only if 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. 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 login-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

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



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.

Next Steps:

To discuss the auto-installer further and/or set up a test environment, please contact Comodo.

Email: EnterpriseSolutions@comodo.com

About Comodo

The Comodo organization is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Building on its unique position as the world's largest certificate authority, Comodo authenticates, validates and secures networks and infrastructures from individuals to mid-sized companies to the world's largest enterprises. Comodo provides complete end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats, both known and unknown. With global headquarters in Clifton, New Jersey, and branch offices in Silicon Valley, Comodo has international offices in China, India, the Philippines, Romania, Turkey, Ukraine and the United Kingdom. For more information, visit comodo.com.

Comodo CA Limited

3rd Floor, 26 Office Village, Exchange Quay, Trafford
Road, Salford, Greater Manchester M5 3EQ,

United Kingdom.

Tel : +44 (0) 161 874 7070

Fax : +44 (0) 161 877 1767

Email: EnterpriseSolutions@Comodo.com

Comodo Security Solutions, Inc.

1255 Broad Street

Clifton,

NJ 07013

United States

Tel: +1.877.712.1309

Tel: +1.888.256.2608

For additional information on Comodo - visit <http://www.comodo.com/>