

# ASA 8.x: Renew and Install the SSL Certificate with ASDM

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## Introduction

The procedure in this document is an example and can be used as a guideline with any certificate vendor or your own root certificate server. Special certificate parameter requirements are sometimes required by your certificate vendor, but this document is intended to provide the general steps required to renew an SSL certificate and install it on an ASA that uses 8.0 software.

## Prerequisites

### Requirements

There are no specific requirements for this document.

### Components Used

This procedure pertains to ASA versions 8.x with ASDM version 6.0(2) or later.

The procedure in this document is based on a valid configuration with a certificate installed and used for SSL VPN access. This procedure does not impact your network as long as the current certificate is not deleted. This procedure is a step-by-step process on how to issue a new CSR for a current certificate with the same root certificate that issued the original root CA.

The information in this document was created from the devices in a specific lab environment. If your network is live, make sure that you understand the potential impact of any command.

### Conventions

Refer to the Cisco Technical Tips Conventions for more information on document conventions.

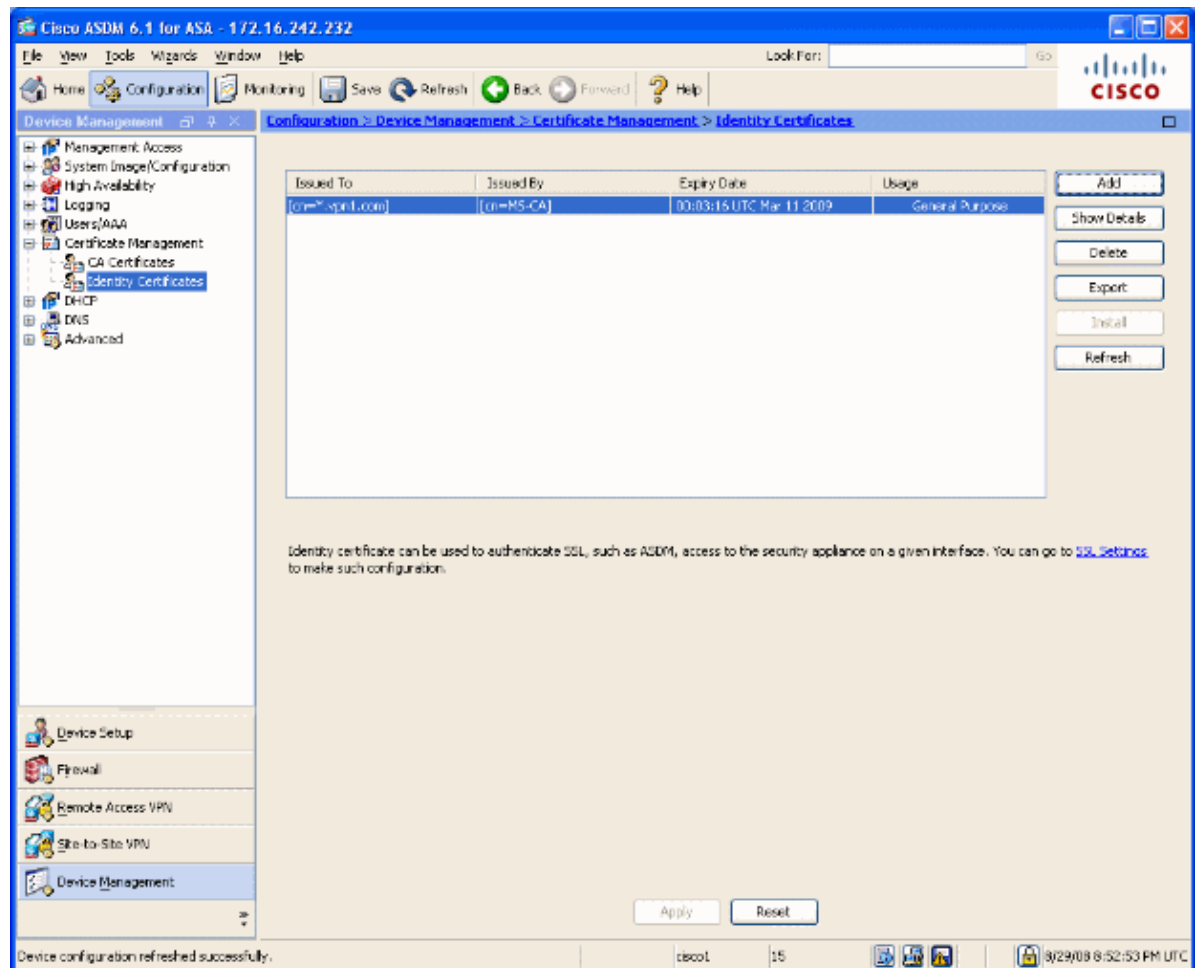
## Procedure

Complete these steps:

1. Select the certificate you want to renew beneath Configuration > Device Management > Identity

Certificates, and then click **Add**.

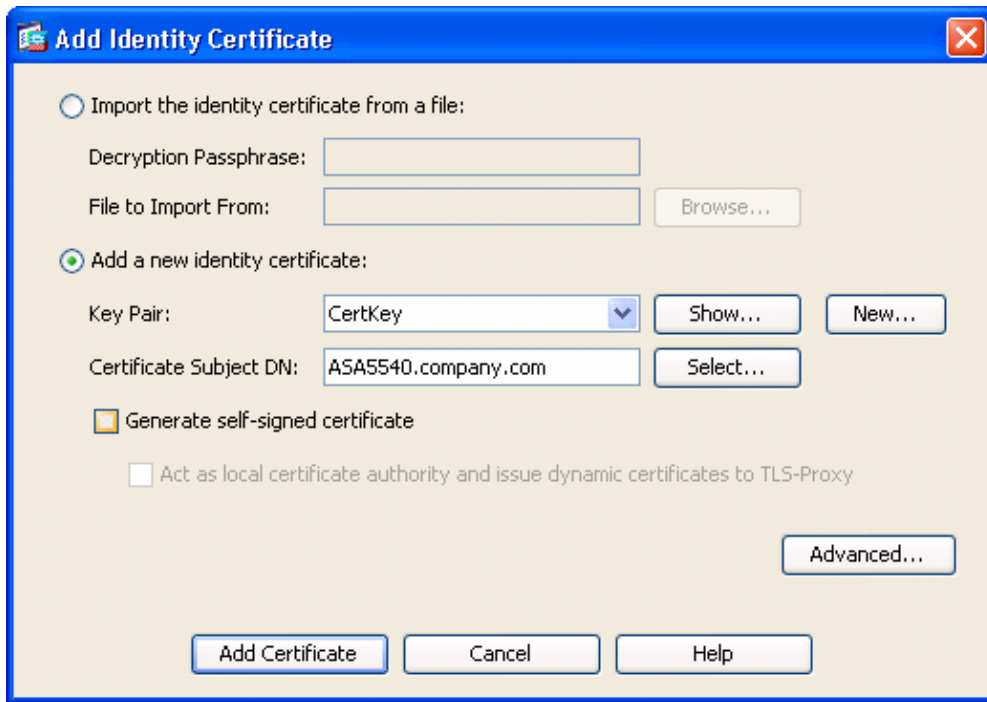
**Figure 1**



2. Under Add Identity Certificate, select the **Add a new identity certificate** radio button, and choose your key pair from the drop-down menu.

**Note:** It is not recommended to use <Default-RSA-Key> because if you regenerate your SSH key, you invalidate your certificate. If you do not have an RSA key, complete Steps a and b. Otherwise continue to Step 3.

**Figure 2**

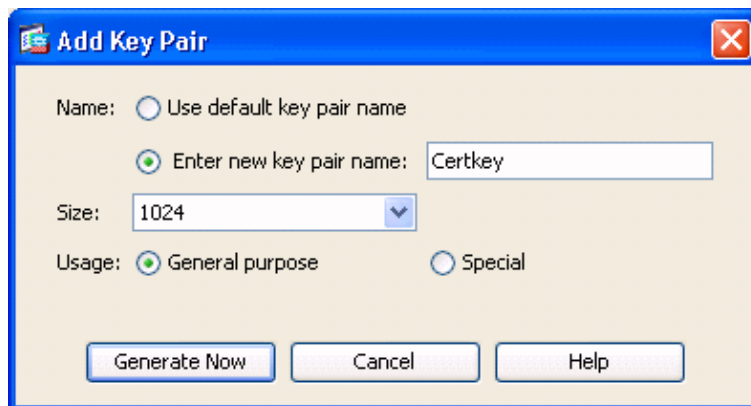


- a. (Optional) Complete these steps if you do not have an RSA key configured yet, otherwise skip to Step 3.

Click **New...**

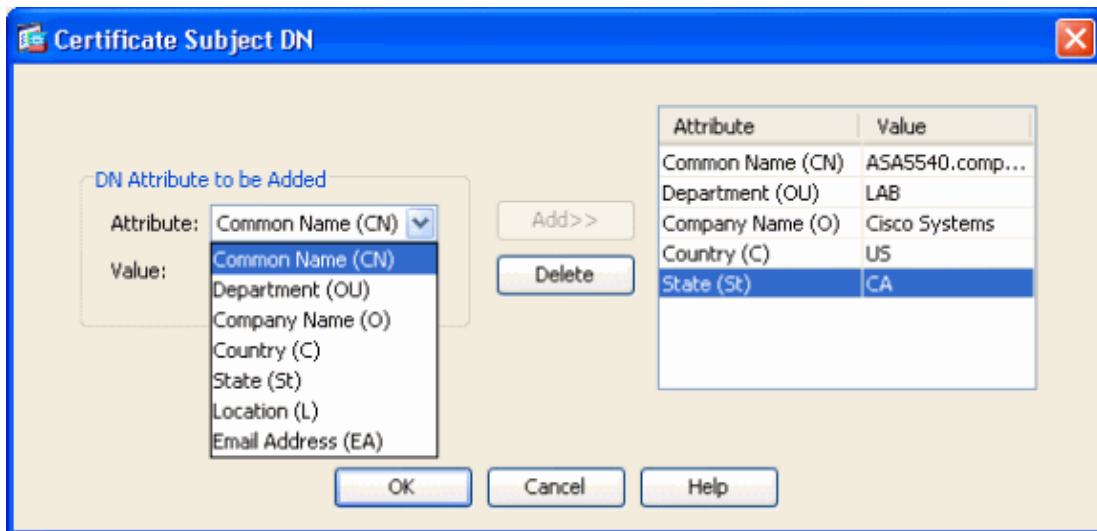
- b. Enter the key pair name in the **Enter new key pair name** field, and click **Generate Now**.

**Figure 3**



3. Click **Select**.
4. Enter the appropriate certificate attributes as shown in Figure 4. Once completed, click **OK**. Then click **Add Certificate**.

**Figure 4**

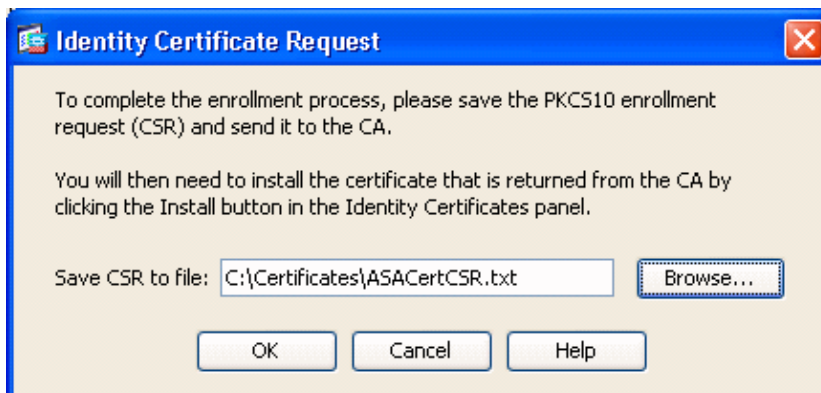


CLI output:

```
crypto ca trustpoint ASDM_TrustPoint0
  keypair CertKey
  id-usage ssl-ipsec
  fqdn 5540-uwe
  subject-name CN=ASA5540.company.com,OU=LAB,O=Cisco systems,C=US,St=CA
  enrollment terminal
crypto ca enroll ASDM_TrustPoint0
```

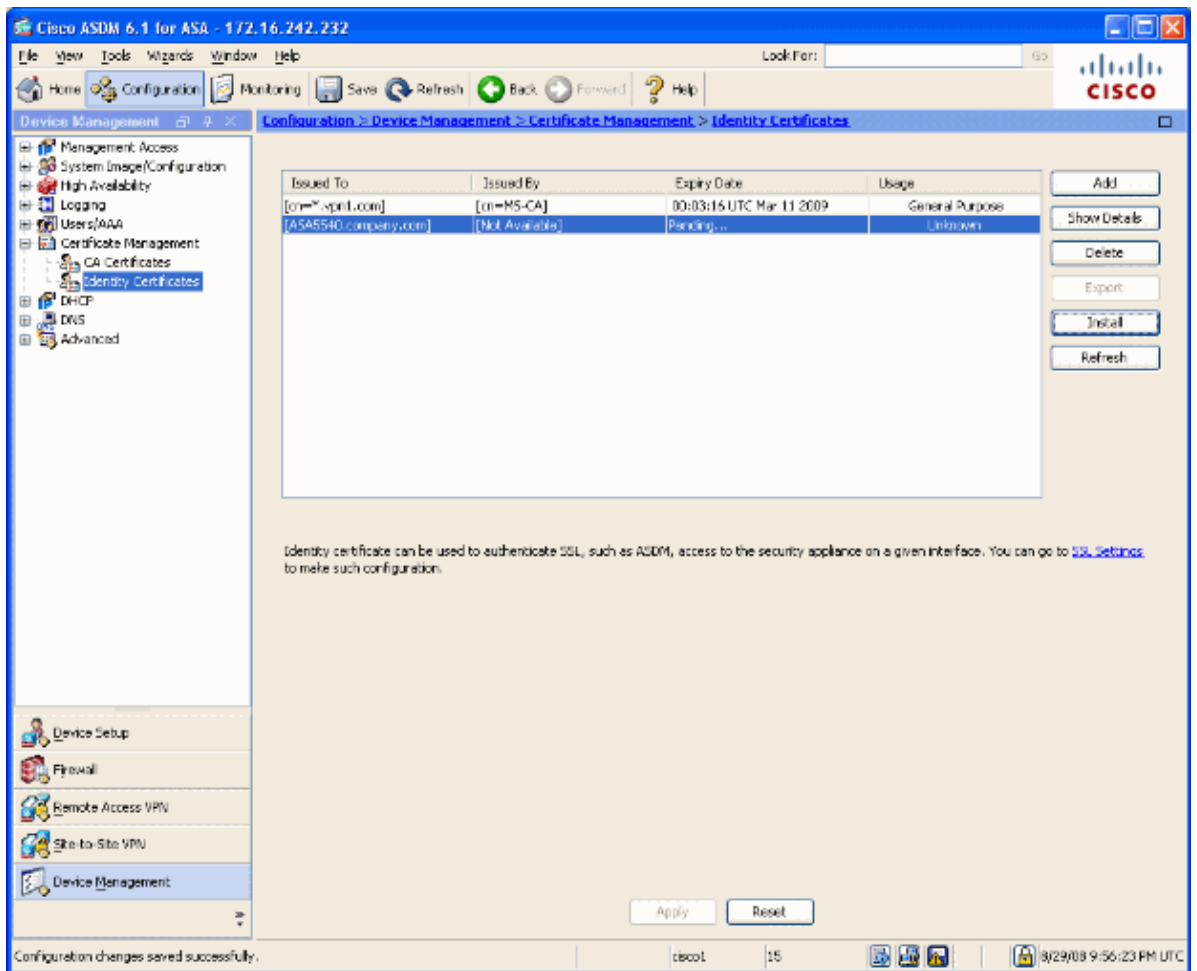
5. In the **Identity Certificate Request** popup window, save your Certificate Signing Request (CSR) to a text file, and click **OK**.

**Figure 5**



6. (Optional) Verify in ASDM that the CSR is pending, as shown in Figure 6.

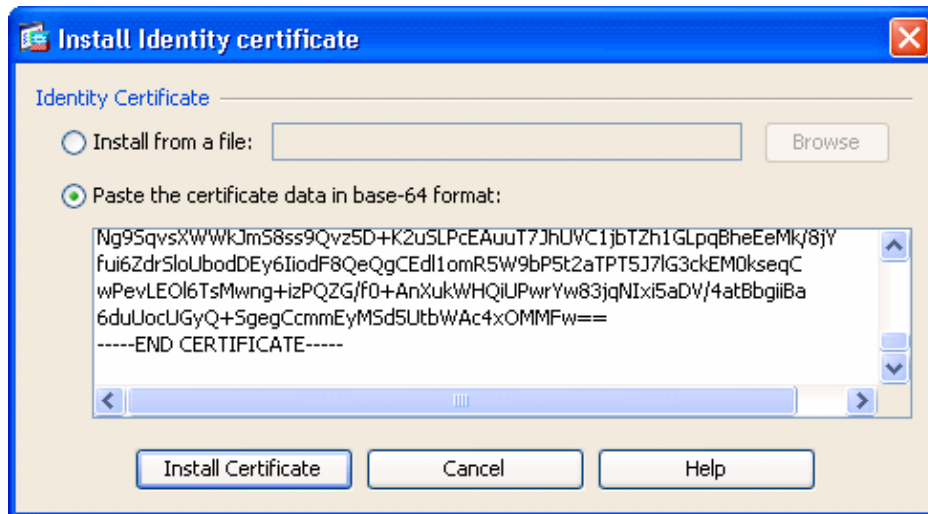
**Figure 6**



7. Submit the certificate request to the certificate administrator, who issues the certificate on the server. This can either be through a web interface, e-mail, or directly to the root CA server for certificate issue process.
8. Complete these steps in order to install the renewed certificate.
  - a. Select the pending certificate request under Configuration > Device Management > Identity Certificates, as shown in Figure 6, and click **Install**.
  - b. In the Install Identity Certificate window, select the **Paste the certificate data in base-64 format** radio button, and click **Install Certificate**.

**Note:** Alternatively, if the certificate is issued in a .cer file rather than a text based file or e-mail, you can also select **Install from a file**, browse to the appropriate file on your PC, click **Install ID certificate file** and then click **Install Certificate**.

**Figure 7**



CLI output:

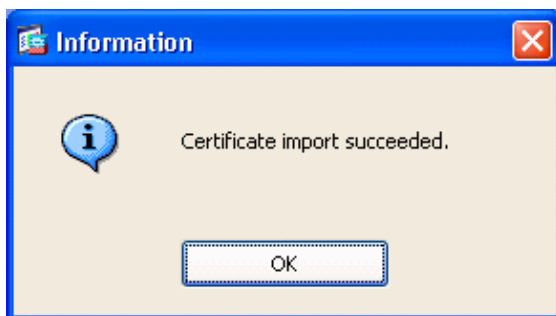
```
crypto ca import ASDM_TrustPoint0 certificate
WIID2DCCAsCgAwIBAgIKYb9wewAAAAAAJzANBgkqhkiG9w0BAQUFADAQMQ

!--- output truncated

wPevLEO16TsMwng+izPQZG/f0+AnXukWHQiUPwrYw83jqNIxi5aDV/4atBbgiiBa
6duUocUGyQ+SgegCmmEyMSd5UtbWAc4xOMMFw==
quit
```

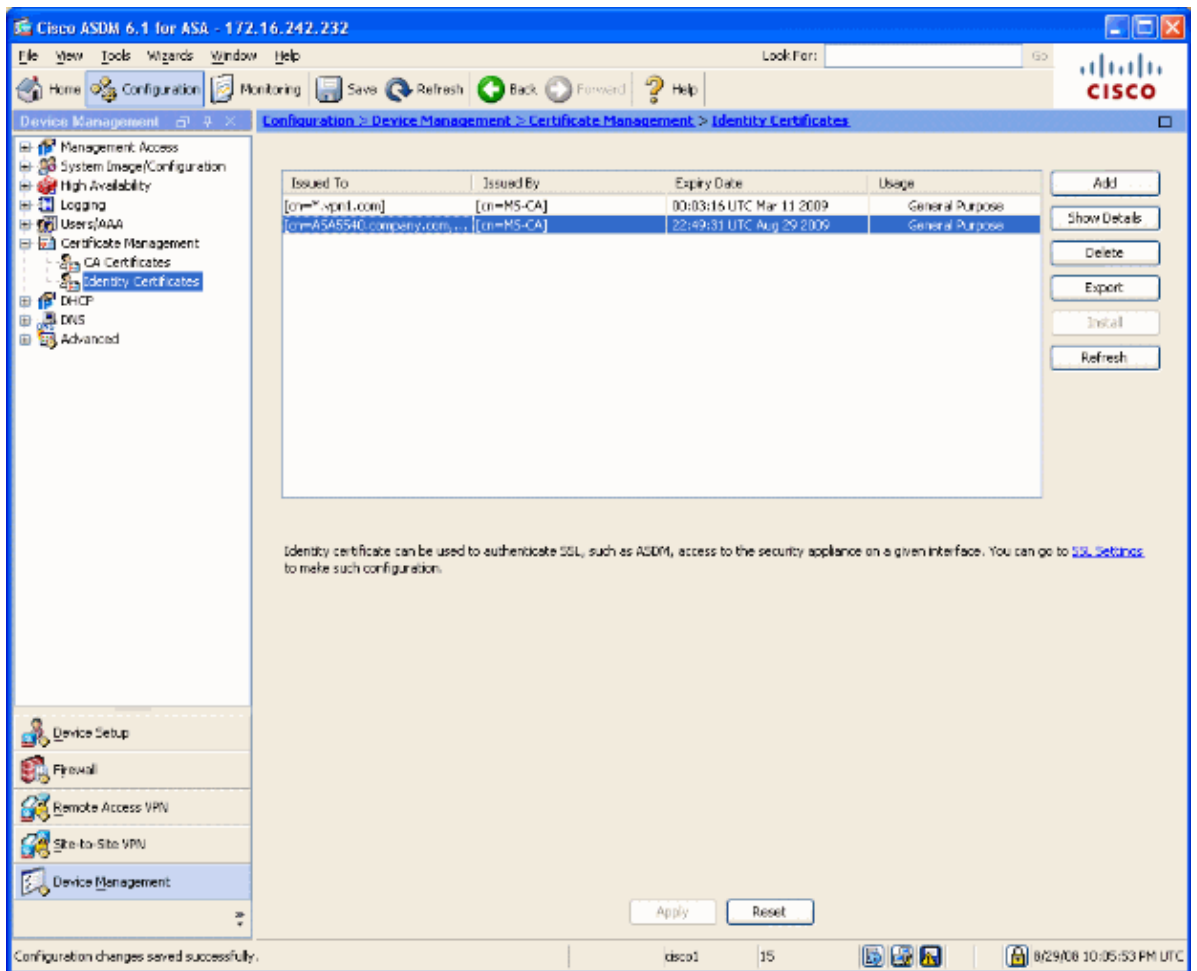
9. A window appears that confirms the certificate is successfully installed. Click **OK** to confirm.

**Figure 8**



10. Ensure your new certificate appears under Identity Certificates.

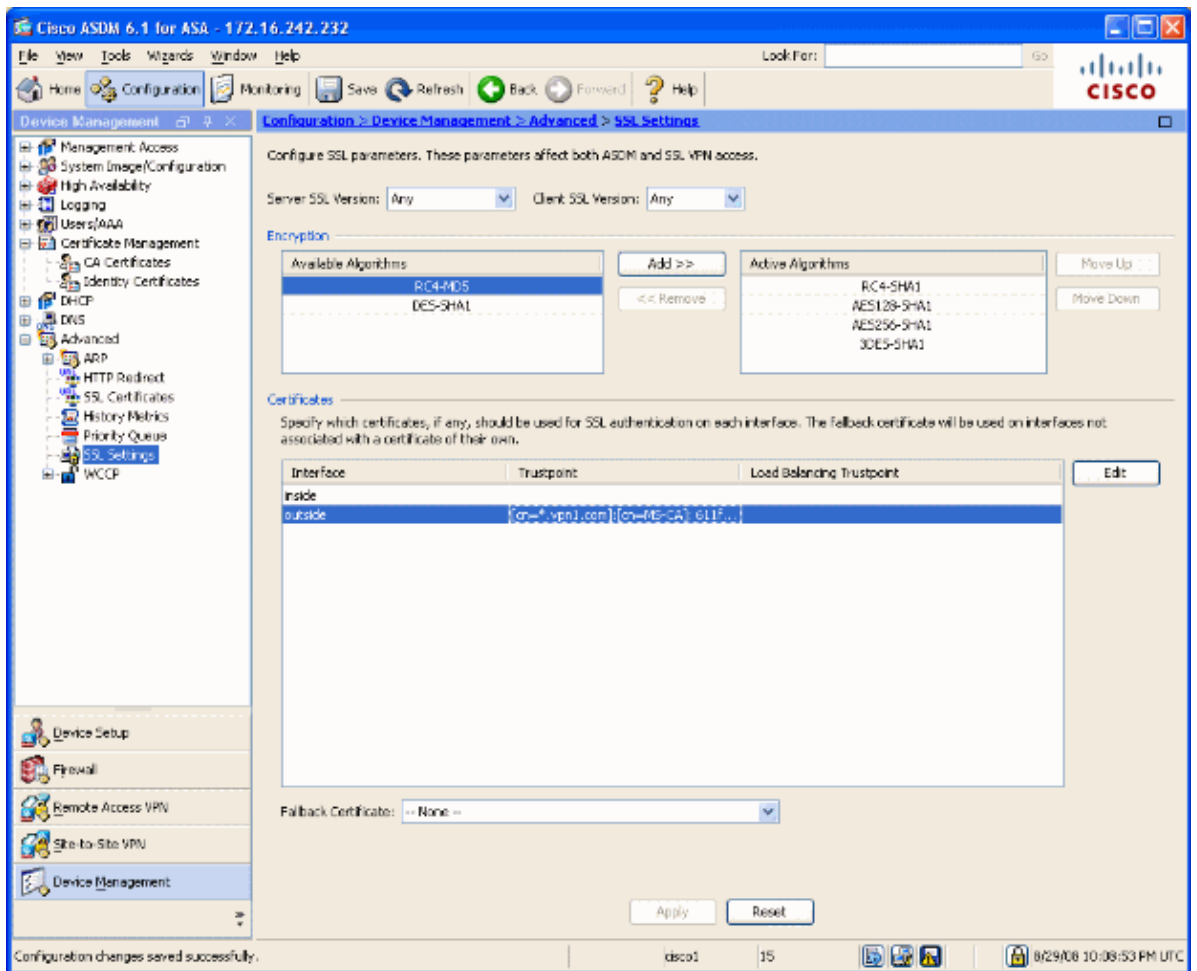
**Figure 9**



11. Complete these steps in order to bind the new certificate to the interface:

- a. Choose **Configuration > Device Management > Advanced > SSL Settings**, as shown in Figure 10.
- b. Select your interface under Certificates, and click **Edit**.

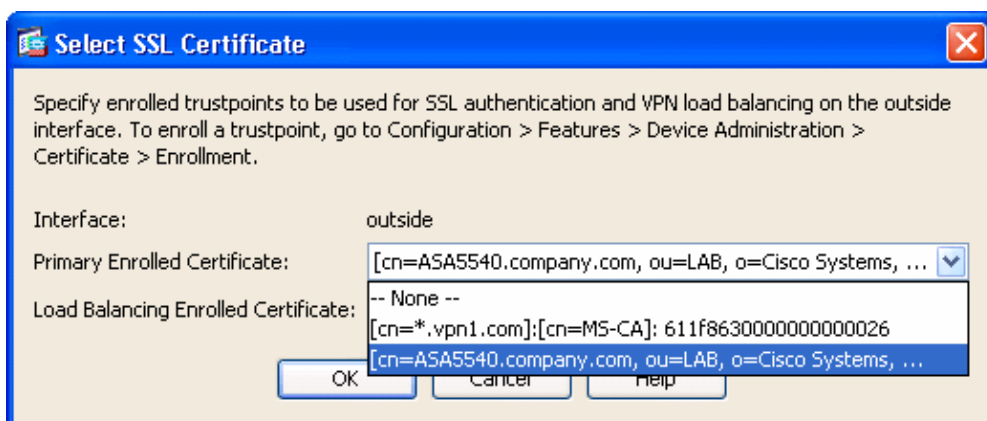
**Figure 10**



12. Choose your new certificate from the drop-down menu, click **OK**, and click **Apply**.

```
ssl encryption rc4-sha1 aes128-sha1 aes256-sha1 3des-sha1
ssl trust-point ASDM_TrustPoint0 outside
```

**Figure 11**



13. Save your configuration in either ASDM or on the CLI.

## Verify

You can use the CLI interface in order to verify that the new certificate is installed to the ASA correctly, as shown in this sample output:

```
ASA(config)#show crypto ca certificates
```

```

Certificate
  Status: Available
  Certificate Serial Number: 61bf707b000000000027
  Certificate Usage: General Purpose
  Public Key Type: RSA (1024 bits)
  Issuer Name:
    cn=MS-CA
  Subject Name:
    cn=ASA5540.company.com
!---new certificate

    ou=LAB
    o=Cisco Systems
    st=CA
    c=US
  CRL Distribution Points:
    [1] http://win2k3-basel/CertEnroll/MS-CA.crl
    [2] file://\win2k3-basel\CertEnroll\MS-CA.crl
  Validity Date:
    start date: 22:39:31 UTC Aug 29 2008
    end date: 22:49:31 UTC Aug 29 2009
  Associated Trustpoints: ASDM_TrustPoint0

CA Certificate
  Status: Available
  Certificate Serial Number: 211020a79cfd96b34ba93f3145d8e571
  Certificate Usage: Signature
  Public Key Type: RSA (2048 bits)
  Issuer Name:
    cn=MS-CA
  Subject Name:
    cn=MS-CA
!--- old certificate

  CRL Distribution Points:
    [1] http://win2k3-basel/CertEnroll/MS-CA.crl
    [2] file://\win2k3-basel\CertEnroll\MS-CA.crl
  Validity Date:
    start date: 00:26:08 UTC Jun 8 2006
    end date: 00:34:01 UTC Jun 8 2011
  Associated Trustpoints: test

Certificate
  Status: Available
  Certificate Serial Number: 611f8630000000000026
  Certificate Usage: General Purpose
  Public Key Type: RSA (1024 bits)
  Issuer Name:
    cn=MS-CA
  Subject Name:
    cn=*.vpnl.com
  CRL Distribution Points:
    [1] http://win2k3-basel/CertEnroll/MS-CA.crl
    [2] file://\win2k3-basel\CertEnroll\MS-CA.crl
  Validity Date:
    start date: 23:53:16 UTC Mar 10 2008
    end date: 00:03:16 UTC Mar 11 2009
  Associated Trustpoints: test

ASA(config)#

```

## Troubleshoot

(Optional) Verify on the CLI that the correct certificate is applied to the interface:

```
ASA(config)#show running-config ssl
ssl trust-point ASDM_TrustPoint0 outside
```

*!--- Shows that the correct trustpoint is tied to the outside interface that terminates SSL VPN.*

```
ASA(config)#
```

---

## Related Information

- [Cisco Adaptive Security Appliance\(ASA\) Support Page](#)
  - [ASA 8.x Manually Install 3rd Party Vendor Certificates for use with WebVPN Configuration Example](#)
  - [Technical Support & Documentation – Cisco Systems](#)
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