

Administración de certificados y notificación de cambio CUCM

Contenido

1. [Introducción](#)
2. [¿Cómo los Certificados se salvan?](#)
3. [CertMgmt y el certificado CN diseñan la descripción](#)
4. [Ejemplos](#)
- 4.A. [Inserte un nuevo certificado de la Tomcat-confianza.](#)
- 4.B. [Borre el certificado de la Tomcat-confianza](#)
- 4.C. [Regenere el certificado del tomcat en el nodo del editor](#)
5. [Troubleshooting](#)
- 5.A. [Advertencias conocidas - clasificación](#)
- 5.B. [Inclina y engaña](#)
- 5.C. [Verificación del certificado del servicio de CCM](#)
- 5.D. [Verificación del confianza-almacén y del keystore de Tomcat](#)

1. Introducción

Este documento describe que la administración de certificados en Cisco unificó el sistema operativo es componente muy importante de CUCM y de VOS sí mismo porque muchas aplicaciones y características confían en los Certificados por ejemplo: Los TV, el CAPF, la Seguridad por abandono, o la utilidad unificada pages.CertMgmt proporciona un solo repositorio de los Certificados y de los API para otros componentes para incluir fácilmente el transfer(TLS) de la Seguridad y de los datos seguros.

“El servicio de la notificación de cambio del certificado de Cisco” se ha introducido principalmente para synchronize algunos Certificados a través de los Nodos en el cluster y es monitoreado por ServM. Adopta la disposición del certificado más fácil y más rápida para el administrador en implementaciones más grandes.

Contribuido por Mateusz Olszowy, ingeniero de Cisco TAC.

2. ¿Cómo los Certificados se salvan?

Certs se salva en el sistema de archivos así como en la base de datos y el CN el servicio guarda para sincronizar de ellos entre los Nodos. Los Certificados del sistema de archivos se dan la precedencia más alta que los Certificados DB.

Tablas DB:

- Almacenes de certificados todos los detalles del certificado como el tema, el emisor, el serial, el certificado en el formato etc. PEM.
- CERTIFICATESERVICECERTIFICATEMAP - mapp entre el certificado y la CallManager-confianza del tipo de certificado por ejemplo, CAPF-confianza

- CERTIFICATEHASHMAP - mapp entre el certificado y el hash del certificado
- CERTIFICATEPROCESSNODEMAP - mapp entre el certificado y el processnode
- CERTIFICATESTRUSTROLEMAP - mapp entre el certificado y el role_enum
- TYPECERTIFICATESERVICE - enums de las correspondencias que usted puede encontrar en CERTIFICATESERVICECERTIFICATEMAP a los tipos de certificado (es decir tomcat, a la Tomcat-confianza, al callmanager etc.)

Almacenamiento en el sistema de archivos:

- certs: clave pública (X509Certificate - Poseer el certificado) (formato .der y del .pem con .description) y también en el formato del keystore pkcs-12.
- claves: clave privada y frases de contraseña y CSR.
- confianza-CERT: todos los certificados confiables (formato .der y del .pem) y también en el formato del keystore PKCS-12.

Trayectorias de la muestra:

`/usr/local/cm/.security/CallManager/`

`/usr/local/cm/.security/CAPF`

`/usr/local/platform/.security/tomcat`

el sub-directorio Confianza-CERT contiene los links simbólicos que refieren a los archivos del .pem con los nombres especiales consisten en el hash del openSSL y típicamente .0 extensión que se pueden utilizar como iterator cuando usted hace el mismo hash generar. Refiera al ejemplo abajo:

```
[root@cucmpub trust-certs]# pwd
/usr/local/cm/.security/CallManager/trust-certs
```

```
[root@cucmpub trust-certs]# ls -l cucmpub.pem
-rwxr-xr-x 1 certbase ccmbase 993 Mar 15 2013 cucmpub.pem
```

```
[root@cucmpub trust-certs]# openssl x509 -noout -hash -in cucmpub.pem
5eb51e07
```

```
[root@cucmpub trust-certs]# ls -l 5eb51e07.0 lrwxrwxrwx 1 certbase ccmbase 11 May 13 17:16
5eb51e07.0 -> cucmpub.pem
```

3. CertMgmt y el certificado CN diseñan la descripción

Cuando el certificado es carga conforme a la página de administración OS, el archivo en el formato del .PEM y .DER se escribe al sistema de archivos y las tablas DB son actualizadas.

Estos Certificados consiguen replicados después a través de la replicación DB a los otros Nodos en el cluster.

El proceso de la notificación de cambio del certificado de Cisco en los nodos remotos cogen y son cargados a algunos tipos de Certificados en el sistema de archivos por ese mismo proceso.

El proceso de la notificación de cambio del certificado de Cisco consigue notificado para los cambios en estas tablas: CERTIFICADO y CERTIFICATESERVICECERTIFICATEMAP.

Los certs cogidos por la notificación de cambio del certificado de Cisco se configuran adentro

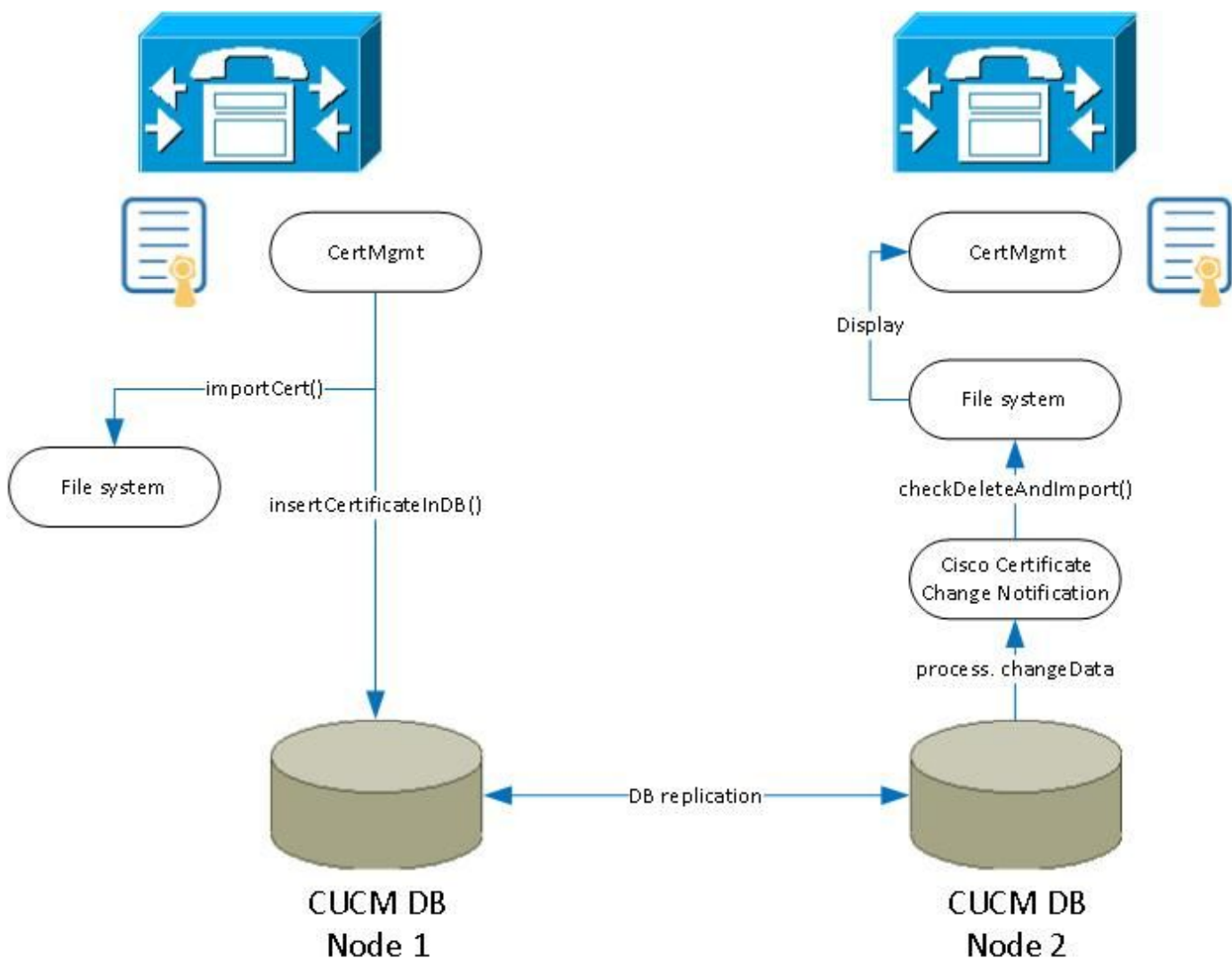
siguen el archivo de configuración /usr/local/platform/conf/certM.conf:

CHANGE_NOTIFICATION_UNIT=tomcat, Tomcat-confianza, directorio-confianza, CallManager, Teléfono-SAST-confianza, CallManager-confianza

Además, el servicio funciona con el sec cada 30 min(1800) por abandono para guardar todos los certs adentro para sincronizar, este temporizador también se configura adentro sobre el archivo: CN_SYNC_TIMER=1800

Una vez que está cargada, replicada a los nodos remotos y cargada allí también sobre el sistema de archivos la página de administración OS visualizará los Certificados.

Es importante observar que la página de administración OS y todos los otros servicios leen los Certificados del sistema de archivos y no del DB.



4. Ejemplos

En esta sección usted considerará 3 diversos escenarios de administración de certificados.

Para cada escenario usted sigue el proceso detalladamente y utiliza el screenshots y los registros.

Para estos usted del escenario utiliza el cluster del nodo del a2 con la versión 9.1.2.10000-28

CUCM.

Leyenda:

CM - Administración de certificados (los registros se pueden encontrar bajo "la plataforma/el registro/del activelog de la lista de archivos ")

certCN - Servicio de la notificación de cambio del certificado (los registros se pueden encontrar bajo "la plataforma/el registro/del activelog de la lista de archivos ")

Ejemplos basados en el cluster 9.1.2.10000-28 CUCM, dos Nodos:

PUBLICACIÓN, IP:10.48.46.29, HOSTNAME:CUCM861

SUBMARINO, IP: 10.48.46.30, HOSTNAME:CUCM861s

Los Certificados se presentan en la página de administración OS con el número de serie en el formato decimal. El DB salva éstos numerados en el HEX. Para convertir los números de serie entre HEX/DEC usted puede utilizar esta [herramienta](#) en línea.

El snippets del registro contiene algunos comentarios (en negrita, empezando por el "##").

4.A. Inserte un nuevo certificado de la Tomcat-confianza.

En el primer escenario usted carga un certificado en la Tomcat-confianza a través de la página de administración OS, debajo de los pasos ocurrirá en ambos Nodos en el cluster:

- a. Cargue manualmente el certificado
 - b. El certificado será salvado en el filesystem por el CM.
 - c. El certificado será insertado en el DB por el CM.
 - d. El certificado será replicado vía la replicación DB al suscriptor. CertCN en ambos Nodos (pub y submarino) será notificado sobre el cambio. No realizará una acción en el nodo del pub.
 - e. CertCN en el nodo sub Import Certificate (Importar certificado) al filesystem y agregarlo al keystore.
 - f. Después de estos pasos el certificado será visible en el GUI conforme a la página de administración OS.
- a. Cuando ocurre la carga del certificado del archivo PEM. Siga por favor debajo del screenshots:

Certificate List

Generate New Upload Certificate/Certificate chain Download CTL Generate CSR

Status
4 records found

Certificate List (1 - 4 of 4)

Find Certificate List where Certificate Name begins with tomcat Find Clear Filter

Certificate Name	Certificate Type	.PEM File
tomcat	certs	tomcat.pem
tomcat-trust	trust-certs	CUCM861.pem
tomcat-trust	trust-certs	CUCM861s.pem
tomcat-trust	trust-certs	VeriSign_Class_3_Secure_Server_CA - G3.p

Generate New Upload Certificate/Certificate chain Download CTL Generate CSR

Upload Certificate/Certificate chain - Mozilla Firefox

https://ghnizdur-1:8443/cmplatform/certificateUpload.do

Upload Certificate/Certificate chain

Upload File Close

Status
Status: Ready

Upload Certificate/Certificate chain

Certificate Name* tomcat-trust

Description

Upload File Przeglądaj... tomcat.pem

Upload File Close

* - indicates required item.

Certificate List

Generate New Upload Certificate/Certificate chain Download CTL Generate CSR

Status
5 records found

Certificate List (1 - 5 of 5)

Find Certificate List where Certificate Name begins with tomcat Find Clear Filter

Certificate Name	Certificate Type	.PEM File	.DER File	Description
tomcat	certs	tomcat.pem	tomcat.der	Self-signed certificate generated by system
tomcat-trust	trust-certs	CUCM9X.pem	CUCM9X.der	Signed Certificate
tomcat-trust	trust-certs	CUCM861.pem	CUCM861.der	Trust Certificate
tomcat-trust	trust-certs	CUCM861s.pem	CUCM861s.der	Trust Certificate
tomcat-trust	trust-certs	VeriSign_Class_3_Secure_Server_CA - G3.pem	VeriSign_Class_3_Secure_Server_CA - G3.der	Trust Certificate

Generate New Upload Certificate/Certificate chain Download CTL Generate CSR

Upload Certificate/Certificate chain - Mozilla Firefox

https://ghnizdur-1:8443/cmplatform/certificateUpload.do

Upload Certificate/Certificate chain

Upload File Close

Status
Success: Certificate Uploaded

Upload Certificate/Certificate chain

Certificate Name* tomcat-trust

Description

Upload File Przeglądaj... Nie wybrano pliku.


Upload File Close

* - indicates required item.

Certificate Configuration

 Delete  Download

Status

 Status: Ready

Certificate Settings

File Name CUCM9X.pem
 Certificate Name tomcat-trust
 Certificate Type trust-certs
 Certificate Group product-cpi
 Description Signed Certificate

Certificate File Data

```
[
Version: V3
Serial Number: 162503161730851213217569888696899890998
Signature Algorithm: SHA256withRSA (1.2.840.113549.1.1.11)
Issuer Name: L=Krakow, ST=Malopolska, CN=CUCM9X, OU=TAC, O=Cisco Systems, C=PL
Validity From: Mon Aug 04 15:19:07 CEST 2014
To: Sat Aug 03 15:19:06 CEST 2019
Subject Name: L=Krakow, ST=Malopolska, CN=CUCM9X, OU=TAC, O=Cisco Systems, C=PL
Key: RSA (1.2.840.113549.1.1.1)
Key value:
3082010a0282010100cb42282338f20e9682fe018c4f0b0951aa32bc0771c1184052fb2ba3b96aafce37e1d002964115d4f0f6a
2f452ff9c02f09329f5ec978409225eafc5c31606ac05e92d4e230004f43ca1636664b9188b5f43b6e1e4677f7d0578f1fd8e5e5e55
553097808a6954b7c5af72abac9a61ae28ecf13a432a4af520c82a6d881d0ea3d475f6e995cb28b2499878452b972715ba3eed45
3376d884bb7f97050b674d0b12fdb33ba156dcb32a98b9a41d76b4f966bce8f50123c7806e33adbdbd8e611c82623f390e4ee2c
692f9d123c7dbbe83dae6acdbaf674a60b6c1c75372228de3d90a72a6e49138a220b5a88db35304de72f91893e3126745de5f237
65ab910203010001
Extensions: 3 present
[
Extension: KeyUsage (OID.2.5.29.15)
Critical: false
Usages: digitalSignature, keyEncipherment, dataEncipherment, keyAgreement, keyCertSign,
]
[
Extension: ExtKeyUsageSyntax (OID.2.5.29.37)
Critical: false
Usage oids: 1.3.6.1.5.5.7.3.1, 1.3.6.1.5.5.7.3.2, 1.3.6.1.5.5.7.3.5,
]
```

Delete Download

Número de serie de nuestro nuevo CERT:
 DEC: 162503161730851213217569888696899890998
 Hex.: 7A40F8743A793B44FE802B5F3E1E6F36

El certificado se escribe en el filesystem (usted seguirá este proceso en los siguientes pasos)

```
[root@CUCM861 tomcat]# pwd /usr/local/platform/.security/tomcat [root@CUCM861 tomcat]# ls -la
total 40 drwxr-xr-x 5 root root 4096 Apr 4 12:47 . drwxr-xr-x 5 root root 4096 Apr 4 12:47 ..
drwxr-xr-x 2 certbase ccmbase 4096 Aug 2 23:36 certs drwxr-xr-x 2 certbase ccmbase 4096 Aug 2
23:36 keys drwxr-xr-x 2 certbase ccmbase 4096 Aug 4 15:21 trust-certs [root@CUCM861 tomcat]# ls
-la certs total 48 drwxr-xr-x 2 certbase ccmbase 4096 Aug 2 23:36 . drwxr-xr-x 5 root root 4096
Apr 4 12:47 .. -rwxr-xr-x 1 certbase ccmbase 939 Aug 2 23:36 tomcat.der -rwxr-xr-x 1 certbase
ccmbase 64 Aug 2 23:36 tomcat.description -rwxr-xr-x 1 certbase ccmbase 2598 Aug 2 23:36
tomcat.keystore -rwxr-xr-x 1 certbase ccmbase 1326 Aug 2 23:36 tomcat.pem
[root@CUCM861 tomcat]# ls -la trust-certs total 140 drwxr-xr-x 2 certbase ccmbase 4096 Aug 4
15:21 . drwxr-xr-x 5 root root 4096 Apr 4 12:47 .. lrwxrwxrwx 1 certbase ccmbase 11 Aug 4 15:21
101f99a6.0 -> CUCM861.pem lrwxrwxrwx 1 certbase ccmbase 10 Aug 4 15:21 25ffab9b.0 -> CUCM9X.pem
```

```
lrwxrwxrwx 1 certbase ccmbase 42 Aug 4 15:21 7e0370f0.0 -> VeriSign_Class_3_Secure_Server_CA_-_G3.pem -rwxr-xr-x 1 certbase ccmbase 939 Aug 2 23:36 CUCM861.der -rwxr-xr-x 1 certbase ccmbase 44 Aug 2 23:36 CUCM861.description -rwxr-xr-x 1 certbase ccmbase 1326 Aug 2 23:36 CUCM861.pem -rwxr-xr-x 1 certbase ccmbase 941 Aug 2 22:51 CUCM861s.der -rwxr-xr-x 1 certbase ccmbase 44 Aug 2 22:51 CUCM861s.description -rwxr-xr-x 1 certbase ccmbase 1330 Aug 2 22:51 CUCM861s.pem -rwxr-xr-x 1 certbase ccmbase 953 Aug 4 15:21 CUCM9X.der -rwxr-xr-x 1 certbase ccmbase 45 Aug 4 15:21 CUCM9X.description -rwxr-xr-x 1 certbase ccmbase 1346 Aug 4 15:21 CUCM9X.pem lrwxrwxrwx 1 certbase ccmbase 12 Aug 4 15:21 d0aacffb.0 -> CUCM861s.pem -rwxr-xr-x 1 certbase ccmbase 4939 Aug 4 15:21 tomcat-trust.keystore -rwxr-xr-x 1 certbase ccmbase 1520 Apr 4 12:47 VeriSign_Class_3_Secure_Server_CA_-_G3.der -rwxr-xr-x 1 certbase ccmbase 44 Apr 4 12:47 VeriSign_Class_3_Secure_Server_CA_-_G3.description -rwxr-xr-x 1 certbase ccmbase 2114 Apr 4 12:47 VeriSign_Class_3_Secure_Server_CA_-_G3.pem
[root@CUCM861 tomcat]# md5sum trust-certs/CUCM9X.pem a0a2e12a42e4bbbf10655c9b299839d9 trust-certs/CUCM9X.pem
```

Como usted puede ver el nuevo certificado se salva en el directorio confianza-CERT. El Common Name (que iguala al nombre de host del nodo CUCM) se ha utilizado como nombre del archivo.

Se ha guardado como el .pem y .der.

Link simbólico **25ffab9b.0 -> CUCM9X.pem** también se ha creado y el certificado se ha agregado al tomcat-trust.keystore.

Finalmente, usted compara la suma de comprobación del md5 del archivo CERT en el nodo sub para probar que éste es el mismo certificado.

b. Hechemos una ojeada a una mirada más atenta cómo sucede que el certificado se ha guardado en el sistema de archivos. Del registro CM (los comentarios en el snippet, en negrita, comienzan con el ##):

```
2014-08-04 15:21:21,116 INFO [main] - log4j configuration successful.
2014-08-04 15:21:21,239 INFO [main] - IN -- CertMgr.java - mainInternal(args) -
2014-08-04 15:21:21,241 INFO [main] - decode

## import is the operation that will be performed 2014-08-04 15:21:21,241 INFO [main] -
op:import 2014-08-04 15:21:21,241 INFO [main] - type:trust-certs 2014-08-04 15:21:21,241 INFO
[main] - unit:tomcat-trust 2014-08-04 15:21:21,241 INFO [main] - src-
cert:%2Fusr%2Flocal%2Fplatform%2Fupload%2Fcerts%2Ftomcat.pem 2014-08-04 15:21:21,241 INFO [main]
- cert-dir:%2Fusr%2Flocal%2Fplatform%2F.security%2Ftomcat%2Ftrust-certs 2014-08-04 15:21:21,241
INFO [main] - key-dir:%2Fusr%2Flocal%2Fplatform%2F.security%2Ftomcat%2Fkeys 2014-08-04
15:21:21,241 INFO [main] - rootCA-cert:Dummy+Root+cert 2014-08-04 15:21:21,241 INFO [main] -
trust-dir:%2Fusr%2Flocal%2Fplatform%2F.security%2Ftomcat%2Ftrust-certs 2014-08-04 15:21:21,241
INFO [main] - logfile:%2Fvar%2Flog%2Factive%2Fplatform%2Flog%2Fcert-mgmt.log 2014-08-04
15:21:21,241 INFO [main] - resultfile:%2Fvar%2Flog%2Factive%2Fplatform%2Flog%2Fcertde-info.xml
2014-08-04 15:21:21,241 INFO [main] - description:Signed+Certificate 2014-08-04 15:21:21,294
INFO [main] - Parsed information 2014-08-04 15:21:21,294 INFO [main] - OrgName: CISCO 2014-08-04
15:21:21,294 INFO [main] - OrgUnit: TAC 2014-08-04 15:21:21,294 INFO [main] - Location: KRAKOW
2014-08-04 15:21:21,294 INFO [main] - Country: PL 2014-08-04 15:21:21,294 INFO [main] - State:
MALOPOLSKA 2014-08-04 15:21:21,294 INFO [main] - Hostname: CUCM861 2014-08-04 15:21:21,294 INFO
[main] - AlternateHostname: null 2014-08-04 15:21:21,294 INFO [main] - Domain Name: 2014-08-04
15:21:21,294 INFO [main] - IPAddress: 10.48.46.29 2014-08-04 15:21:21,296 INFO [main] - In
parseXML() 2014-08-04 15:21:21,359 INFO [main] - FQDN Name retrived by InetAddress : CUCM861
2014-08-04 15:21:21,360 INFO [main] - CN: CUCM861 2014-08-04 15:21:21,360 INFO [main] - Temp
before mod is 2014-08-04 15:21:21,361 INFO [main] - Temp afer mod is TAC 2014-08-04 15:21:21,361
INFO [main] - Temp in else is TAC 2014-08-04 15:21:21,361 INFO [main] - Temp before mod is 2014-
08-04 15:21:21,361 INFO [main] - Temp afer mod is TAC 2014-08-04 15:21:21,361 INFO [main] - Temp
in else is TAC 2014-08-04 15:21:21,361 INFO [main] - OuFields are TAC 2014-08-04 15:21:21,361
DEBUG [main] - Field after encoding: TAC 2014-08-04 15:21:21,361 DEBUG [main] - Field after
encoding: CISCO 2014-08-04 15:21:21,362 DEBUG [main] - Field after encoding: KRAKOW 2014-08-04
15:21:21,362 DEBUG [main] - Field after encoding: MALOPOLSKA 2014-08-04 15:21:21,362 DEBUG
[main] - Field after encoding: PL 2014-08-04 15:21:21,366 INFO [main] - OU field is :TAC 2014-
08-04 15:21:21,366 INFO [main] - SubjectDN ::
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL 2014-08-04 15:21:21,366 INFO [main] - IN -
- CertMgr.java - getCertMgrObj(unit) - tomcat-trust 2014-08-04 15:21:21,386 INFO [main] - OUT --
CertMgr.java - getCertMgrObj - com.cisco.cpi.certMgmt.manager.TomcatCertMgr@162dbb6 2014-08-04
```

15:21:21,386 INFO [main] - Dummy loadProperties 2014-08-04 15:21:21,386 INFO [main] - IN -- CertMgr.java - doOp(info) - 2014-08-04 15:21:21,387 INFO [main] - IN -- DefaultCertMgr.java - importCert(info) - decode: true op: import unit: tomcat-trust keystoreUnit:tomcat-trust logFile: /var/log/active/platform/log/cert-mgmt.log resultFile: /var/log/active/platform/log/certde-info.xml keyDir: /usr/local/platform/.security/tomcat/keys certDir: /usr/local/platform/.security/tomcat/trust-certs srcCert: /usr/local/platform/upload/certs/tomcat.pem type: trust-certs rootCACert: Dummy Root cert trustDir: /usr/local/platform/.security/tomcat/trust-certs DNAME: CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL description:Signed Certificate isDBInsert:true 2014-08-04 15:21:21,387 INFO [main] - IN -- DefaultCertMgr.java - loadInputCert(info) - 2014-08-04 15:21:22,246 DEBUG [main] - Loading RSA providers explicitly... 2014-08-04 15:21:25,159 DEBUG [main] - RSA providers are loaded explicitly... 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.1=JsafeJCE 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.2=RsaJsse 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.3=BC 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.4=SUN 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.5=SunRsaSign 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.6=SunJSSE 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.7=SunJCE 2014-08-04 15:21:25,159 DEBUG [main] - New security.provider.8=SunJGSS 2014-08-04 15:21:25,160 DEBUG [main] - New security.provider.9=SunSASL 2014-08-04 15:21:25,160 DEBUG [main] - New security.provider.10=XMLDSig 2014-08-04 15:21:25,160 DEBUG [main] - New security.provider.11=SunPCSC 2014-08-04 15:21:25,160 INFO [main] - IN -- RSACryptoEngine.java - loadCertificates(..) - 2014-08-04 15:21:25,160 INFO [main] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-04 15:21:25,772 INFO [main] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-04 15:21:25,772 INFO [main] - OUT -- RSACryptoEngine.java - loadCertificates - 2014-08-04 15:21:25,772 INFO [main] - OUT -- DefaultCertMgr.java - loadInputCert - Successfully loaded input cert 2014-08-04 15:21:25,772 DEBUG [main] - Checking validity of cert 2014-08-04 15:21:25,772 INFO [main] - Verifying certificate L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL 2014-08-04 15:21:25,772 INFO [main] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-04 15:21:25,773 DEBUG [main] - parseCNfromDN(certSubjDN: 'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL') 2014-08-04 15:21:25,773 DEBUG [main] - Truncating CN 'CUCM9X,OU=TAC,O=Cisco Systems,C=PL' -> 'CUCM9X' 2014-08-04 15:21:25,773 INFO [main] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-04 15:21:25,773 DEBUG [main] - Parsed CN 'CUCM9X' from DN 'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL' 2014-08-04 15:21:25,773 INFO [main] - trying to load cert from trust store ::/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.pem 2014-08-04 15:21:25,773 INFO [main] - cert not available in trust store ::L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL 2014-08-04 15:21:25,773 INFO [main] - IN -- DefaultCertMgr.java - importTrustCert(info, cert) - 2014-08-04 15:21:25,773 INFO [main] - IN -- DefaultCertMgr.java - saveToTrustStore(info, cert) - 2014-08-04 15:21:25,773 INFO [main] - IN -- DefaultCertMgr.java - saveTrustCert(cert, targetDir, certType) - 2014-08-04 15:21:25,773 INFO [main] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-04 15:21:25,773 DEBUG [main] - parseCNfromDN(certSubjDN: 'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL') 2014-08-04 15:21:25,773 DEBUG [main] - Truncating CN 'CUCM9X,OU=TAC,O=Cisco Systems,C=PL' -> 'CUCM9X' 2014-08-04 15:21:25,773 INFO [main] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-04 15:21:25,773 DEBUG [main] - Parsed CN 'CUCM9X' from DN 'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL' 2014-08-04 15:21:25,773 INFO [main] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-04 15:21:25,773 DEBUG [main] - parseCNfromDN(certSubjDN: 'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL') 2014-08-04 15:21:25,774 DEBUG [main] - Truncating CN 'CUCM9X,OU=TAC,O=Cisco Systems,C=PL' -> 'CUCM9X' 2014-08-04 15:21:25,774 INFO [main] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-04 15:21:25,774 DEBUG [main] - Parsed CN 'CUCM9X' from DN 'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL' ## **cert will be stored in filesystem with below filename (which is CN retrieved from certificate)** 2014-08-04 15:21:25,774 DEBUG [main] - target filename for imported cert: 'CUCM9X.pem' 2014-08-04 15:21:25,774 DEBUG [main] - existing certificate with same filename not found. 2014-08-04 15:21:25,774 DEBUG [main] - Saving PEM encoded cert '/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.pem' 2014-08-04 15:21:25,776 INFO [main] - IN -- CryptoUtil.java - saveAsPEM(..) - File : /usr/local/platform/.security/tomcat/trust-certs/CUCM9X.pem 2014-08-04 15:21:25,796 INFO [main] - OUT -- CryptoUtil.java - saveAsPEM - 2014-08-04 15:21:25,796 DEBUG [main] - Saving DER encoded cert '/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.der' 2014-08-04 15:21:25,797 INFO [main] - OUT -- DefaultCertMgr.java - saveTrustCert - **## saving it to key store** 2014-08-04 15:21:25,797 INFO [main] - IN -- TomcatCertMgr.java - saveToKeyStore(..) - 2014-08-04 15:21:25,797 INFO [main] - IN -- RSACryptoEngine.java - saveToKeyStore(keystoreFile,


```
keystorePass, x509Certificate, alias) - 2014-08-04 15:21:25,797 INFO [main] - IN --
RSACryptoEngine.java - loadKeyStore(keystoreFile, keystorePass) - 2014-08-04 15:21:25,981 INFO
[main] - OUT -- RSACryptoEngine.java - loadKeyStore - 2014-08-04 15:21:25,981 INFO [main] - Size
of the keystore before import is : 3 2014-08-04 15:21:25,982 INFO [main] - Importing certificate
: CUCM9X 2014-08-04 15:21:26,023 INFO [main] - Size of the keystore after import is : 4 2014-08-
04 15:21:26,023 INFO [main] - OUT -- RSACryptoEngine.java - saveToKeyStore - 2014-08-04
15:21:26,023 INFO [main] - OUT -- TomcatCertMgr.java - saveToKeyStore - 2014-08-04 15:21:26,023
DEBUG [main] - TrustCert description filename : 'CUCM9X.description' 2014-08-04 15:21:26,024
INFO [main] - IN -- DefaultCertMgr.java - createDescriptionFile(name, description) - 2014-08-04
15:21:26,024 INFO [main] - description is :Signed Certificate 2014-08-04 15:21:26,024 INFO
[main] - OUT -- DefaultCertMgr.java - createDescriptionFile - 2014-08-04 15:21:26,024 INFO
[main] - IN -- DefaultCertMgr.java - setOwnershipAndPermissions(file) - 2014-08-04 15:21:26,024
DEBUG [main] - setOwnershipAndPermissions : CUCM9X.description 2014-08-04 15:21:26,025 DEBUG
[main] - Changing ownership of file '/usr/local/platform/.security/tomcat/trust-
certs/CUCM9X.description' 2014-08-04 15:21:26,025 INFO [main] - IN -- Util.java - sysExec(exe,
args) - 2014-08-04 15:21:26,025 DEBUG [main] - Executing command from Util.sysExec : /bin/chown
certbase /usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description 2014-08-04
15:21:26,049 INFO [main] - OUT -- Util.java - sysExec - 2014-08-04 15:21:26,049 DEBUG [main] -
Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-
certs/CUCM9X.description' 2014-08-04 15:21:26,049 INFO [main] - IN -- Util.java - sysExec(exe,
args) - 2014-08-04 15:21:26,049 DEBUG [main] - Executing command from Util.sysExec : /bin/chgrp
ccmbase /usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description 2014-08-04
15:21:26,064 INFO [main] - OUT -- Util.java - sysExec - 2014-08-04 15:21:26,065 DEBUG [main] -
Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description'
2014-08-04 15:21:26,065 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-04
15:21:26,065 DEBUG [main] - Executing command from Util.sysExec : /bin/chmod 755
/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description 2014-08-04 15:21:26,068 INFO
[main] - OUT -- Util.java - sysExec - 2014-08-04 15:21:26,068 INFO [main] - OUT --
DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-04 15:21:26,068 INFO [main] - OUT --
DefaultCertMgr.java - saveToTrustStore - ## certificate will be stored in trust-certs directory
2014-08-04 15:21:26,069 INFO [main] - trustdir :/usr/local/platform/.security/tomcat/trust-
certs 2014-08-04 15:21:26,069 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-04
15:21:26,069 DEBUG [main] - Executing command from Util.sysExec : python
/usr/local/platform/bin/c_rehash.py /usr/local/platform/.security/tomcat/trust-certs 2014-08-04
15:21:26,449 INFO [main] - OUT -- Util.java - sysExec - ## setting necessary permissions 2014-
08-04 15:21:26,449 INFO [main] - IN -- DefaultCertMgr.java - setOwnershipAndPermissions(file) -
2014-08-04 15:21:26,449 DEBUG [main] - setOwnershipAndPermissions : trust-certs 2014-08-04
15:21:26,449 DEBUG [main] - Changing ownership of file
'/usr/local/platform/.security/tomcat/trust-certs' 2014-08-04 15:21:26,449 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-04 15:21:26,449 DEBUG [main] - Executing command from
Util.sysExec : /bin/chown -R certbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-
04 15:21:26,460 INFO [main] - OUT -- Util.java - sysExec - 2014-08-04 15:21:26,460 DEBUG [main]
- Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-04
15:21:26,460 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:26,460 DEBUG
[main] - Executing command from Util.sysExec : /bin/chgrp -R ccmbase
/usr/local/platform/.security/tomcat/trust-certs 2014-08-04 15:21:26,471 INFO [main] - OUT --
Util.java - sysExec - 2014-08-04 15:21:26,472 DEBUG [main] - Changing mode of file
'/usr/local/platform/.security/tomcat/trust-certs' 2014-08-04 15:21:26,472 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-04 15:21:26,472 DEBUG [main] - Executing command from
Util.sysExec : /bin/chmod -R 755 /usr/local/platform/.security/tomcat/trust-certs 2014-08-04
15:21:26,478 INFO [main] - OUT -- Util.java - sysExec - 2014-08-04 15:21:26,478 INFO [main] -
OUT -- DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-04 15:21:26,478 INFO [main] -
IN -- CertUtil.java - populateCertInfo(cert, opInfo, certFilePemLocation) - 2014-08-04
15:21:26,480 INFO [main] - IN -- CertUtil.java - getHostName(..) - 2014-08-04 15:21:26,480 INFO
[main] - OUT -- CertUtil.java - getHostName - CUCM861 2014-08-04 15:21:26,480 INFO [main] - IN -
- CryptoUtil.java - saveAsPEM(..) - 2014-08-04 15:21:26,482 INFO [main] - OUT -- CryptoUtil.java
- saveAsPEM - 2014-08-04 15:21:26,483 INFO [main] - OUT -- CertUtil.java - populateCertInfo -
c. El certificado se ha salvado en el filesystem, ahora él necesita ser insertado en el DB. Esta
operación es realizada también por CM API.
```

insertCertificateInDB(certFiletoStore, info) -
2014-08-04 15:21:26,485 INFO [main] -

certificate has been identified as tomcat-trust one DBParameters ... PKID : null CN :
L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL serialNo :
7a40f8743a793b44fe802b5f3e1e6f36 hostName : CUCM861 issuerName :
L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL Certificate : Not Printing huge
Certificate String.. IPV4Address : 10.48.46.29 IPV6Address : TimeToLive : NULL UNIT : tomcat-
trust TYPE : trust-certs ROLE : null RoleMoniker : null RoleEnum :null SERVICE : null
ServiceMoniker : null ServiceEnum :0 2014-08-04 15:21:26,485 INFO [main] - DB - Certifciate
Store Plugin Handler is :com.cisco.ccm.certmgmt.db.CertDBImpl 2014-08-04 15:21:26,697 DEBUG
[main] - Connection Initialized to localnode. Connection HashCode:896033 --Details:Connector(NOT
CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:26,697 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04
15:21:26,712 DEBUG [main] - Try to get a connection from pool 2014-08-04 15:21:26,712 DEBUG
[main] - getting local connection from Pool 2014-08-04 15:21:26,714 DEBUG [main] - Getting
connection from connection pool entry <database,jdbcurl2> 2014-08-04 15:21:26,715 DEBUG [main] -
There are currently 0 connection pool entries 2014-08-04 15:21:26,719 DEBUG [main] - Checking if
connection limit has been reached for database 2014-08-04 15:21:26,720 DEBUG [main] - Connecting
to publisher so max number of connections allowed is 100 2014-08-04 15:21:26,720 DEBUG [main] -
Number of connections in use is 0 2014-08-04 15:21:26,720 DEBUG [main] - There is currently 1
connection pool entry 2014-08-04 15:21:26,720 DEBUG [main] - Number of available connections in
pool: 0 2014-08-04 15:21:27,411 DEBUG [main] - Adding connection
<com.informix.jdbc.IfxSqlConnect@135da43> to connection list 2014-08-04 15:21:27,411 DEBUG
[main] - Marking connection <com.informix.jdbc.IfxSqlConnect@135da43> as used 2014-08-04
15:21:27,411 DEBUG [main] - Got connection from pool 2014-08-04 15:21:27,418 DEBUG [main] -
getConn: usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04
15:21:27,422 DEBUG [main] - Closing the resultset. 2014-08-04 15:21:27,423 DEBUG [main] -
Closing the connection. Connection HashCode:896033 --Details:Connector(CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:27,423 DEBUG [main] - Attempting to close
connection 2014-08-04 15:21:27,423 DEBUG [main] - Removing connection <database, jdbcurl2> from
ConnectionManager list 2014-08-04 15:21:27,423 DEBUG [main] -
removeConnectionFromConnectionList() 2014-08-04 15:21:27,447 DEBUG [main] - Removing connection
<com.informix.jdbc.IfxSqlConnect@135da43> from connection list 2014-08-04 15:21:27,452 DEBUG
[main] - Connection <com.informix.jdbc.IfxSqlConnect@135da43> is not closed, adding it back to
the pool entry <database,jdbcurl2> 2014-08-04 15:21:27,453 INFO [main] -
Connection/Statement/Resultset is closed properly. **## service is checking current enums for
TYPETRUSTROLEMAP (for tomcat-trust it is
ROLE_APPLICATION_SERVER=7) and TYPESERVICEROLEMAP (for tomcat-trust it will be
tomcat-trust=6)** 2014-08-04 15:21:27,453 INFO [main] - TYPETRUSTROLEMAP
::{TRUST_ROLE_DATA_SERVICE=24, TRUST_ROLE_PROVISIONING_SERVICE=23, TRUST_ROLE_SERVICEABILITY=27,
TRUST_ROLES_CALLMANAGER_TFTP=2, PHONE_TRUST_ROLES_FIREWALL=6, ROLE_APPLICATION_SERVER=7,
TRUST_ROLES_SAST=0, ROLE_SIGNALING_CALL_CONTROL=22, TRUST_ROLES_CALLMANAGER=1,
TRUST_ROLES_UNKNOWN=255, TRUST_ROLE_NETWORK_ELEMENT=25, TRUST_ROLES_SRST=5,
ROLE_CERTIFICATE_AUTHORITY=20, TRUST_ROLE_VPN=26, TRUST_ROLES_CAPF=4, TRUST_ROLES_TFTP=3,
ROLE_AUTHENTICATION_AUTHORIZATION=21} 2014-08-04 15:21:27,453 INFO [main] - TYPESERVICEROLEMAP
::{Phone-VPN-trust=2, CallManager=3, Phone-CTL-trust=15, tomcat-trust=6, TVS=11, ipsec-trust=8,
Phone-trust=1, Phone-SAST-trust=14, tomcat=5, userlicensing-trust=16, CAPF=9, ipsec=7, CAPF-
trust=10, CallManager-trust=4, TVS-trust=12, directory-trust=13} 2014-08-04 15:21:27,453 INFO
[main] - unitRoleMap ::{Phone-VPN-trust=[TRUST_ROLE_VPN],
CallManager=[TRUST_ROLES_CALLMANAGER_TFTP, TRUST_ROLES_SAST], Phone-CTL-
trust=[ROLE_APPLICATION_SERVER], tomcat-trust=[ROLE_APPLICATION_SERVER],
TVS=[ROLE_AUTHENTICATION_AUTHORIZATION], ipsec-trust=[], Phone-trust=[ROLE_APPLICATION_SERVER],
Phone-SAST-trust=[TRUST_ROLES_SAST, TRUST_ROLES_TFTP], tomcat=[ROLE_APPLICATION_SERVER],
userlicensing-trust=[], CAPF=[TRUST_ROLES_CAPF], ipsec=[ROLE_APPLICATION_SERVER], CAPF-trust=[],
CallManager-trust=[], TVS-trust=[], directory-trust=[]} 2014-08-04 15:21:27,453 INFO [main] -
commonTrustStoreMap ::{} 2014-08-04 15:21:27,456 DEBUG [main] - Connection Initialized to
Publisher. Connection HashCode:7962652 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:27,456 INFO [main] - IN -- CertDBImpl.java
- insertCertificate(certInfo, con) - 2014-08-04 15:21:27,456 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-04
15:21:27,456 DEBUG [main] - Try to get a connection from pool 2014-08-04 15:21:27,456 DEBUG
[main] - Getting connection from connection pool entry <database,jdbcurl2> 2014-08-04
15:21:27,456 DEBUG [main] - There is currently 1 connection pool entry 2014-08-04 15:21:27,456

DEBUG [main] - Adding connection <com.informix.jdbc.IfxSqlConnect@135da43> to connection list
2014-08-04 15:21:27,456 DEBUG [main] - Marking connection
<com.informix.jdbc.IfxSqlConnect@135da43> as used 2014-08-04 15:21:27,457 DEBUG [main] - Got
connection from pool 2014-08-04 15:21:27,459 INFO [main] - IN -- CertDBImpl.java -
populateRoleEnumServiceEnum(certInfo) - 2014-08-04 15:21:27,459 INFO [main] - UNIT :: tomcat-
trust 2014-08-04 15:21:27,459 INFO [main] - role :: [ROLE_APPLICATION_SERVER] 2014-08-04
15:21:27,459 INFO [main] - roleEnum :: [7] 2014-08-04 15:21:27,459 INFO [main] - service ::
null 2014-08-04 15:21:27,459 INFO [main] - serviceEnum :: 6 2014-08-04 15:21:27,459 INFO [main]
- OUT -- CertDBImpl.java - populateRoleEnumServiceEnum - 2014-08-04 15:21:27,489 INFO [main] -
IN -- CertDBUtil.java - getProcessNodeId(con, hostName, ipAddress, fqdn) - 2014-08-04
15:21:27,489 INFO [main] - getProcessNodeId Query :SELECT PKID,NAME FROM PROCESSNODE WHERE
UPPER(NAME)=UPPER("CUCM861") OR UPPER(NAME)=UPPER("10.48.46.29") OR UPPER(NAME)=UPPER("CUCM861")
2014-08-04 15:21:27,489 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-04
15:21:27,497 INFO [main] - ProcessNodeId:13f4b0d9-0bae-429a-a86e-625336a35bb6 2014-08-04
15:21:27,498 DEBUG [main] - Closing the resultset. 2014-08-04 15:21:27,498 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:27,498 INFO [main] - OUT --
CertDBUtil.java - getProcessNodeId - 2014-08-04 15:21:27,498 INFO [main] - IN -- CertDBImpl.java
- getPkidOfCertificate(hash, serverName, con) - 2014-08-04 15:21:27,498 DEBUG [main] - GetPKID
Query :SELECT A.PKID FROM CERTIFICATE A, CERTIFICATEHASHMAP B WHERE A.PKID=B.FKCERTIFICATE AND
B.HASH = "a9Ww/WeDmBnnHHncUCqOGCz409g=" 2014-08-04 15:21:27,498 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-04
15:21:27,522 DEBUG [main] - Closing the resultset. 2014-08-04 15:21:27,539 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:27,539 INFO [main] - OUT --
CertDBImpl.java - getPkidOfCertificate - 2014-08-04 15:21:27,539 DEBUG [main] - INSERT FLAG ::
isCertUpdate=false :: doNothing=false **## you can see an insert query that is used to upload the
certificate into the CERTIFICATE**
table 2014-08-04 15:21:27,543 DEBUG [main] - INSERT/UPDATE Query of CERTIFICATE : INSERT INTO
CERTIFICATE VALUES ("4152b36b-002e-68ac-711d-
c373fa940779", "CUCM861", "L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco
Systems,C=PL", "L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco
Systems,C=PL", "7a40f8743a793b44fe802b5f3e1e6f36", "-----BEGIN CERTIFICATE-----
MIIDtTCCAp2gAwIBAgIQekD4dDp500T+gCtfPh5vNjANBgkqhkiG9w0BAQsFADBq
MQswCQYDVQQGEWJQTEDEWMBQGA1UEChMNQ2lzy28gU3lzdGVtczEMMAoGA1UECxMD
VEFDMQ8wDQYDVQQDEwZDVUNNOVgxZzARBgNVBAGTCk1hbG9wb2xza2ExDzANBgNV
BACTBktyYWtvdzAeFw0xNDA4MDQxMzE5MDdaFw0xOTA4MDMxMzE5MDZaMGoxCzAJ
BgNVBAYTAlBMMRYwFAyDVQQKEw1DaXNjbyBTeXN0ZW1zMQwwCgYDVQQLEwNUQUxM
DzANBgNVBAMTBkNVQ005WDEtMBEGA1UECBMTWFsb3BvbHNRyYTEPMA0GA1UEBxMG
S3Jha293MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAY0IoIzjyDpaC
/gGMTwsJUaoyvAdxwRhAUvsro7lqr+rON+HQApZBFdT9qL0Uv+cAvCTKfXs14QJ
I16vxcMWBqWf6S10IwAE9DyhY2ZkuRiLX0024eRnf30FePH9j15eVVUw14CKaVS3
xa9yq6yaYa4o7PE6QypK9SDIKm2IHQ6j1HX26ZXLKlJmHhFK5cnFbo+7UUzdtie
u3+XBQtnTqsS/bM7oVbcsyqYuaQddrT5Zrzo9Qejx4BuM62929jmEcgmI/OQ504s
aS+dEjx9u+g9rmrNuvZ0pgtsHHU3IijePZCnKm5JE4oiC1qI2zUwTevckYk+MSZ0
XeXyN2WrkQIDAQAB0lcwVTALBgNVHQ8EBAMCARwwJwYDVR0lBCAwHgYIKwYBBQUH
AwEGCCsGAQUFBwMCBggrBgEFBQCDBTAdBgNVHQ4EFgQUt6dlJJ8fTevcRHxEQKG9
fYV3SPswDQYJKoZIhvcNAQELBQADggEBALA9jn5CQWQhMA+Eg9C6QUyLqKNN7Lshy
loSSE7Nn5RsIB4PQ9cD8Wv17bzRyP70yFoQ1B+Z8U4FgSCWkbGAGaAubMyb/6rXLW
uUyCrXhy48XrMDVJ3CqMHXhR5tjY9Sn1ziXdJe4AwwBRAzId4QrIdNuE6pUSLrrh
915dRYvrXpIXgeQJ2pGU+qo12CSaySSPTeFhNDh8U2yjjw/tg8H1Amnv0VW+TY+9U
B6TC04iElmwuOr9tJ6+LyZI7emRmNkv50n5PzcK4RQz5NOefVXdSHLpwAuW+Q8Eb
mt7BbxzyZl5KbaSdAMvkYRbnuwDjyZWMJPOWftVcmRlRpk2/yDb959o= -----END CERTIFICATE-----
", "10.48.46.29", "", NULL) 2014-08-04 15:21:27,543 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-04
15:21:27,766 INFO [main] - IN -- CertDBImpl.java - updateCertificateHashMap(certInfo, con) - **##
hash for this certificate is being updated in teh CERTIFICATEHASHMAP** 2014-08-04 15:21:27,766
DEBUG [main] - Update query of CERTIFICATEHASHMAP :UPDATE CERTIFICATEHASHMAP SET HASH =
"a9Ww/WeDmBnnHHncUCqOGCz409g=" WHERE FKCERTIFICATE = "4152b36b-002e-68ac-711d-c373fa940779"
2014-08-04 15:21:27,766 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-04
15:21:27,771 INFO [main] - OUT -- CertDBImpl.java - updateCertificateHashMap - **## cert is in the
DB, but there is still no info about the type of this certificate.**
**## Corresponding tables: CERTIFICATESERVICECERTIFICATEMAP, CERTIFICATETRUSTROLEMAP and
CERTIFICATEPROCESSNODEMAP need to be updated with correct info. For each one CM will**

```
## check if you have any entries in the DB with the PKID of certificate you just added. If
## no, proper entry is inserted 2014-08-04 15:21:27,771 INFO [main] - IN -- CertDBImpl.java -
insertCertSrvCertMap(certInfo, con) - 2014-08-04 15:21:27,771 INFO [main] - IN --
CertDBImpl.java - checkExistingCertificateServiceMapping(certInfo, serviceEnum, con) - ##
checked here 2014-08-04 15:21:27,771 DEBUG [main] - checkExistingTrustCertificateForService
Query :SELECT PKID,FKCERTIFICATE, TKCERTIFICATESERVICE FROM CERTIFICATESERVICECERTIFICATEMAP
WHERE FKCERTIFICATE = "4152b36b-002e-68ac-711d-c373fa940779" AND TKCERTIFICATESERVICE= "6" 2014-
08-04 15:21:27,771 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-04
15:21:27,774 DEBUG [main] - Closing the resultset. 2014-08-04 15:21:27,774 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:27,774 INFO [main] - OUT --
CertDBImpl.java - checkExistingCertificateServiceMapping - ## inserted here 2014-08-04
15:21:27,774 DEBUG [main] - Certificate to be inserted in CERTIFICATESERVICECERTIFICATEMAP table
:tomcat-trust ::PKID :4152b36b-002e-68ac-711d-c373fa940779 ::toInsertInCertSrvMap:true 2014-08-
04 15:21:27,774 DEBUG [main] - Insert query of CERTIFICATESERVICECERTIFICATEMAP :INSERT INTO
CERTIFICATESERVICECERTIFICATEMAP VALUES (newid(),"4152b36b-002e-68ac-711d-c373fa940779",6) 2014-
08-04 15:21:27,775 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-04
15:21:27,778 DEBUG [main] - CertService mapping entry already exists.. 2014-08-04 15:21:27,778
INFO [main] - OUT -- CertDBImpl.java - insertCertSrvCertMap - 2014-08-04 15:21:27,778 INFO
[main] - IN -- CertDBImpl.java - insertCertTrustRoleMap(certInfo, log, con) - 2014-08-04
15:21:27,779 INFO [main] - IN -- CertDBImpl.java - checkExistingCertificateRoleMapping(certInfo,
roleEnum, con) - ## checked here 2014-08-04 15:21:27,779 DEBUG [main] -
checkExistingTrustCertificateForRole Query :SELECT PKID,FKCERTIFICATE, TKTRUSTROLE FROM
CERTIFICATETRUSTROLEMAP WHERE FKCERTIFICATE = "4152b36b-002e-68ac-711d-c373fa940779" AND
TKTRUSTROLE= "7" 2014-08-04 15:21:27,779 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-04
15:21:27,781 DEBUG [main] - Closing the resultset. 2014-08-04 15:21:27,781 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:27,781 INFO [main] - OUT --
CertDBImpl.java - checkExistingCertificateRoleMapping - ## inserted here 2014-08-04 15:21:27,781
DEBUG [main] - Certificate to be inserted in CERTIFICATETRUSTROLEMAP table :tomcat-trust ::PKID
:4152b36b-002e-68ac-711d-c373fa940779 ::toInsertInCertSrvMap:true 2014-08-04 15:21:27,781 DEBUG
[main] - Insert query of CERTIFICATETRUSTROLEMAP :INSERT INTO CERTIFICATETRUSTROLEMAP VALUES
(newid(),"4152b36b-002e-68ac-711d-c373fa940779",7) 2014-08-04 15:21:27,782 DEBUG [main] -
getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-04
15:21:27,868 INFO [main] - OUT -- CertDBImpl.java - insertCertTrustRoleMap - 2014-08-04
15:21:27,868 INFO [main] - IN -- CertDBImpl.java - insertCertProcessNodeMap(certInfo, con) -
2014-08-04 15:21:27,868 INFO [main] - IN -- CertDBImpl.java -
checkExistingCertProcessNodeMapping(certInfo, con) - ## finally checked here 2014-08-04
15:21:27,868 DEBUG [main] - checkExistingCertProcessNodeMapping Query :SELECT
PKID,FKCERTIFICATE, FKPROCESSNODE, SERVERNAME FROM CERTIFICATEPROCESSNODEMAP WHERE
FKCERTIFICATE="4152b36b-002e-68ac-711d-c373fa940779" AND FKPROCESSNODE="13f4b0d9-0bae-429a-a86e-
625336a35bb6" AND SERVERNAME="CUCM861" 2014-08-04 15:21:27,869 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-04
15:21:27,872 DEBUG [main] - Closing the resultset. 2014-08-04 15:21:27,872 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:27,872 INFO [main] - OUT --
CertDBImpl.java - checkExistingCertProcessNodeMapping - ## and inserted here 2014-08-04
15:21:27,872 DEBUG [main] - Insert query of CERTIFICATEPROCESSNODEMAP :INSERT INTO
CERTIFICATEPROCESSNODEMAP VALUES (newId(),"4152b36b-002e-68ac-711d-c373fa940779", "13f4b0d9-
0bae-429a-a86e-625336a35bb6" , "CUCM861", "10.48.46.29" , "") 2014-08-04 15:21:27,872 DEBUG
[main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true]
2014-08-04 15:21:27,879 INFO [main] - OUT -- CertDBImpl.java - insertCertProcessNodeMap - 2014-
08-04 15:21:27,930 DEBUG [main] - Connection committed for insertCertificate.. 2014-08-04
15:21:27,930 DEBUG [main] - Insertion of Certificate in DB is Successful. 2014-08-04
15:21:27,930 INFO [main] - OUT -- CertDBImpl.java - insertCertificate - 2014-08-04 15:21:27,930
DEBUG [main] - Closing the connection. Connection HashCode:7962652 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:27,930 DEBUG
[main] - Attempting to close connection 2014-08-04 15:21:27,930 DEBUG [main] - Removing
connection <database, jdbcurl2> from ConnectionManager list 2014-08-04 15:21:27,930 DEBUG [main]
- removeConnectionFromConnectionList() 2014-08-04 15:21:27,930 DEBUG [main] - Removing
connection <com.informix.jdbc.IfxSqlConnect@135da43> from connection list 2014-08-04
15:21:27,931 DEBUG [main] - Connection <com.informix.jdbc.IfxSqlConnect@135da43> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:27,931 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:27,931 INFO [main] - DB -
```

```
Generate Certificate operation in DB is successful 2014-08-04 15:21:27,931 INFO [main] - OUT --
CertDBAction.java - insertCertificateInDB - 2014-08-04 15:21:27,931 INFO [main] - IN --
CryptoUtil.java - isOCSPEnabled(..) - 2014-08-04 15:21:27,931 INFO [main] - IN --
CryptoUtil.java - getCertMonitorXmlParser(..) - 2014-08-04 15:21:27,989 INFO [main] - OUT --
CryptoUtil.java - getCertMonitorXmlParser - 2014-08-04 15:21:27,989 INFO [main] - OUT --
CryptoUtil.java - isOCSPEnabled - false 2014-08-04 15:21:27,990 DEBUG [main] - OCSP is not
enabled. ## process of importing the cert to this node is finishing here. 2014-08-04
15:21:27,990 INFO [main] - Successfully imported trusted certificate with Subject
DN:L&#61;Krakow,ST&#61;Malopolska,CN&#61;CUCM9X,OU&#61;TAC,O&#61;Cisco Systems,C&#61;PL 2014-08-
04 15:21:27,990 INFO [main] - OUT -- DefaultCertMgr.java - importTrustCert - Successfully
imported trusted certificate with Subject
DN:L&#61;Krakow,ST&#61;Malopolska,CN&#61;CUCM9X,OU&#61;TAC,O&#61;Cisco Systems,C&#61;PL 2014-08-
04 15:21:27,990 INFO [main] - result of import operations is ::Import of trust certificate is
successful 2014-08-04 15:21:27,990 INFO [main] - OUT -- DefaultCertMgr.java - importCert - 2014-
08-04 15:21:27,990 INFO [main] - IN -- CertMgr.java - logResult(result, desc, resultFile) -
2014-08-04 15:21:27,990 INFO [main] - CertMgmt Operation Result : null 2014-08-04 15:21:27,991
INFO [main] - OUT -- CertMgr.java - logResult - 2014-08-04 15:21:27,991 INFO [main] - OUT --
CertMgr.java - doOp - 2014-08-04 15:21:27,992 INFO [main] - OUT -- CertMgr.java - mainIntenal -
```

d. Después de que se repliquen los certs, el servicio de CertCN en ambos Nodos se notifica sobre el cambio realizado en el DB. Esto se puede ver en los registros. Debajo muestra a inicio Publisher

```
## notification about the change comes, service is notified about change in CERTIFICATE and
CERTIFICATESERVICECERTIFICATEMAP tables 2014-08-04 15:21:28,003 INFO [Thread-5] - IN - process.
changeData &colon; 2014-08-04 15:21:28,016 INFO [Thread-5] - Inside CERTIFICATE - I/U option..
2014-08-04 15:21:28,016 DEBUG [Thread-5] - Updated Data in CERTIFICATE
::<msg><type>DBL</type><table>certificate</table><tableid>41</tableid><action>I</action><time>14
07158487</time><new><cdrserver>2</cdrserver><cdrtime>1407158486</cdrtime><pkid>4152b36b-002e-
68ac-711d-
c373fa940779</pkid><servername>CUCM861</servername><subjectname>L=Krakow,ST=Malopolska,CN=CUCM9X
,OU=TAC,O=Cisco
Systems,C=PL</subjectname><issuename>L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco
Systems,C=PL</issuename><serialnumber>7a40f8743a793b44fe802b5f3e1e6f36</serialnumber><certifica
te></certificate><ipv4address>10.48.46.29</ipv4address><ipv6address></ipv6address><timetolive>NU
LL</timetolive><ifx_replcheck>6043699677659004930</ifx_replcheck></new></msg> 2014-08-04
15:21:28,016 DEBUG [Thread-5] - Certificate PKID : 4152b36b-002e-68ac-711d-c373fa940779 ,
ipAddress : 10.48.46.29 , OldSerialNo : , NewSerialNo : 7a40f8743a793b44fe802b5f3e1e6f36 2014-
08-04 15:21:28,017 INFO [Thread-5] - OUT - process. 2014-08-04 15:21:28,018 INFO [Thread-5] - IN
- process. changeData &colon; 2014-08-04 15:21:28,018 INFO [Thread-5] - Inside
CERTIFICATESERVICECERTIFICATEMAP - I option.. 2014-08-04 15:21:28,019 DEBUG [Thread-5] - Updated
Data in CERTIFICATESERVICECERTIFICATEMAP
::<msg><type>DBL</type><table>certificateservicecertificatemap</table><tableid>44</tableid><acti
on>I</action><time>1407158487</time><new><cdrserver>2</cdrserver><cdrtime>1407158487</cdrtime><pk
id>798ff6e1-e1d6-42e5-a4e6-30d9d7360d6d</pkid><fkcertificate>4152b36b-002e-68ac-711d-
c373fa940779</fkcertificate><tkcertificateservice>6</tkcertificateservice><ifx_replcheck>6043699
681953972226</ifx_replcheck></new></msg> 2014-08-04 15:21:28,019 INFO [InsertThread --- 8] - IN
-- CertKeystoreHandler.java - run() - 2014-08-04 15:21:28,021 DEBUG [InsertThread --- 8] -
InsertThread --- 8 -- START -- ## change is related to the PKID that has been assigned for the
new certificate 2014-08-04 15:21:28,021 DEBUG [InsertThread --- 8] - DB Value UPDATE: 4152b36b-
002e-68ac-711d-c373fa940779 2014-08-04 15:21:28,021 INFO [InsertThread --- 8] - IN --
CertKeystoreHandler.java - updateIntoKeystore() - 2014-08-04 15:21:28,021 INFO [InsertThread ---
8] - IN -- CertDBImpl.java - getCertificate(certBash64SHA1:null --pkid:4152b36b-002e-68ac-711d-
c373fa940779 2014-08-04 15:21:28,022 DEBUG [InsertThread --- 8] - Connection Initialized to
localnode. Connection HashCode:14186201 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:28,022 DEBUG [InsertThread --- 8] - Select
Query to getCertificate :SELECT A.*,B.HASH FROM CERTIFICATE A, CERTIFICATEHASHMAP B WHERE
A.PKID=B.FKCERTIFICATE AND A.PKID = "4152b36b-002e-68ac-711d-c373fa940779" 2014-08-04
15:21:28,022 DEBUG [InsertThread --- 8] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04
15:21:28,022 DEBUG [InsertThread --- 8] - Try to get a connection from pool 2014-08-04
15:21:28,022 DEBUG [InsertThread --- 8] - getting local connection from Pool 2014-08-04
15:21:28,022 DEBUG [InsertThread --- 8] - Getting connection from connection pool entry
<database,jdbcurl2> 2014-08-04 15:21:28,022 DEBUG [InsertThread --- 8] - There are currently 2
```

connection pool entries 2014-08-04 15:21:28,023 DEBUG [InsertThread --- 8] - Checking if connection limit has been reached for database 2014-08-04 15:21:28,023 DEBUG [InsertThread --- 8] - Connecting to publisher so max number of connections allowed is 100 2014-08-04 15:21:28,023 DEBUG [InsertThread --- 8] - Number of connections in use is 0 2014-08-04 15:21:28,023 DEBUG [InsertThread --- 8] - There are currently 2 connection pool entries 2014-08-04 15:21:28,023 DEBUG [InsertThread --- 8] - Number of available connections in pool: 0 2014-08-04 15:21:28,079 DEBUG [InsertThread --- 8] - Adding connection <com.informix.jdbc.IfxSqlConnect@162db76> to connection list 2014-08-04 15:21:28,079 DEBUG [InsertThread --- 8] - Marking connection <com.informix.jdbc.IfxSqlConnect@162db76> as used 2014-08-04 15:21:28,079 DEBUG [InsertThread --- 8] - Got connection from pool 2014-08-04 15:21:28,081 DEBUG [InsertThread --- 8] - Closing the resultset. 2014-08-04 15:21:28,081 DEBUG [InsertThread --- 8] - Closing the connection. Connection HashCode:14186201 --Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:28,081 DEBUG [InsertThread --- 8] - Attempting to close connection 2014-08-04 15:21:28,081 DEBUG [InsertThread --- 8] - Removing connection <database, jdbcurl2> from ConnectionManager list 2014-08-04 15:21:28,081 DEBUG [InsertThread --- 8] - removeConnectionFromConnectionList() 2014-08-04 15:21:28,081 DEBUG [InsertThread --- 8] - Removing connection <com.informix.jdbc.IfxSqlConnect@162db76> from connection list 2014-08-04 15:21:28,081 DEBUG [InsertThread --- 8] - Connection <com.informix.jdbc.IfxSqlConnect@162db76> is not closed, adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:28,082 INFO [InsertThread --- 8] - Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:28,082 DEBUG [InsertThread --- 8] - Connection released from CertDBImpl.getCertificate method. 2014-08-04 15:21:28,082 INFO [InsertThread --- 8] - OUT -- CertDBImpl.java - getCertificate - 2014-08-04 15:21:28,082 INFO [InsertThread --- 8] - IN -- CertDBImpl.java - getCertUnitByPkid(pkid) - 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - Connection Initialized to localnode. Connection HashCode:20337133 --Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - Select Query to getCertUnitByPkid :SELECT A.PKID, A.FKCERTIFICATE, A.TKCERTIFICATESERVICE, B.NAME UNIT FROM CERTIFICATESEVICECERTIFICATEMAP A, TYPECERTIFICATESERVICE B WHERE A.FKCERTIFICATE="4152b36b-002e-68ac-711d-c373fa940779" AND A.TKCERTIFICATESERVICE = B.ENUM 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - getConn: usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - Try to get a connection from pool 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - getting local connection from Pool 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - Getting connection from connection pool entry <database,jdbcurl2> 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - There are currently 2 connection pool entries 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - Adding connection <com.informix.jdbc.IfxSqlConnect@162db76> to connection list 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - Marking connection <com.informix.jdbc.IfxSqlConnect@162db76> as used 2014-08-04 15:21:28,083 DEBUG [InsertThread --- 8] - Got connection from pool 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - Closing the resultset. 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - Closing the connection. Connection HashCode:20337133 -- Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - Attempting to close connection 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - Removing connection <database, jdbcurl2> from ConnectionManager list 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - removeConnectionFromConnectionList() 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - Removing connection <com.informix.jdbc.IfxSqlConnect@162db76> from connection list 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - Connection <com.informix.jdbc.IfxSqlConnect@162db76> is not closed, adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:28,085 INFO [InsertThread --- 8] - Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:28,085 DEBUG [InsertThread --- 8] - Resultset released from CertDBImpl.getCertUnitByPkid method. 2014-08-04 15:21:28,085 INFO [InsertThread --- 8] - OUT -- CertDBImpl.java - getCertUnitByPkid - 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - UNIT : tomcat-trust 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - CurrentIPAddress : 10.48.46.29 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - RemoteIPAddress : 10.48.46.29 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - OldSerialNo : 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - NewSerialNo :7a40f8743a793b44fe802b5f3e1e6f36 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - IN -- CertUtil.java - getListFromComaSeperatedStr(..) - 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - OUT -- CertUtil.java - getListFromComaSeperatedStr - **## tomcat-trust is in scope of certCN for import but since it is already on the file** **## system the service will nothing with that one.** 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - tomcat-trust --- is included unit for CN 2014-08-04 15:21:28,086 DEBUG [InsertThread --- 8] - Change notification not require on same node except tomcat cert. 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - tomcat-trust Certificate successfully updated in trust-store by Change

```
Notification.. 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - OUT --
CertKeystoreHandler.java - updateIntoKeystore - 2014-08-04 15:21:28,086 DEBUG [InsertThread ---
8] - InsertThread --- 8 -- END -- 2014-08-04 15:21:28,086 INFO [InsertThread --- 8] - OUT --
CertKeystoreHandler.java - run -
```

e. En el suscriptor usted ve que sucede lo mismo, certCN consigue notificado del cambio y la importación siguiente el certificado sobre el sistema de archivos, establece los links simbólicos etc.... Esto se puede ver adentro debajo del registro:

```
## service is notified about the change in DB. Notifications are related to two tables: 2014-08-
04 15:21:29,298 INFO [Thread-5] - IN - process. changeData &colon; 2014-08-04 15:21:29,299 INFO
[Thread-5] - Inside CERTIFICATE - I/U option.. ## CERTIFICATE one ... 2014-08-04 15:21:29,299
DEBUG [Thread-5] - Updated Data in CERTIFICATE
::<msg><type>DBL</type><table>certificate</table><tableid>41</tableid><action>I</action><time>14
07158488</time><new><cdrserver>2</cdrserver><cdrtime>1407158487</cdrtime><pkid>4152b36b-002e-
68ac-711d-
c373fa940779</pkid><servername>CUCM861</servername><subjectname>L=Krakow,ST=Malopolska,CN=CUCM9X
,OU=TAC,O=Cisco
Systems,C=PL</subjectname><issuename>L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco
Systems,C=PL</issuename><serialnumber>7a40f8743a793b44fe802b5f3e1e6f36</serialnumber><certifica
te></certificate><ipv4address>10.48.46.29</ipv4address><ipv6address></ipv6address><timetolive>NU
LL</timetolive><ifx_replcheck>6043699677659004930</ifx_replcheck></new></msg> 2014-08-04
15:21:29,299 DEBUG [Thread-5] - Certificate PKID : 4152b36b-002e-68ac-711d-c373fa940779 ,
ipAddress : 10.48.46.29 , OldSerialNo : , NewSerialNo : 7a40f8743a793b44fe802b5f3e1e6f36 2014-
08-04 15:21:29,299 INFO [Thread-5] - OUT - process. 2014-08-04 15:21:29,299 INFO [InsertThread -
-- 35] - IN -- CertKeystoreHandler.java - run() - 2014-08-04 15:21:29,300 DEBUG [InsertThread --
- 35] - InsertThread --- 35 -- START -- 2014-08-04 15:21:29,300 DEBUG [InsertThread --- 35] - DB
Value UPDATE: 4152b36b-002e-68ac-711d-c373fa940779 2014-08-04 15:21:29,300 INFO [InsertThread --
- 35] - IN -- CertKeystoreHandler.java - updateIntoKeystore() - 2014-08-04 15:21:29,300 INFO
[InsertThread --- 35] - IN -- CertDBImpl.java - getCertificate(certBash64SHA1:null --
pkid:4152b36b-002e-68ac-711d-c373fa940779 2014-08-04 15:21:29,301 DEBUG [InsertThread --- 35] -
Connection Initialized to localnode. Connection HashCode:30607587 --Details:Connector(NOT
CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:29,301 DEBUG [InsertThread ---
35] - Select Query to getCertificate :SELECT A.*,B.HASH FROM CERTIFICATE A, CERTIFICATEHASHMAP B
WHERE A.PKID=B.FKCERTIFICATE AND A.PKID = "4152b36b-002e-68ac-711d-c373fa940779" 2014-08-04
15:21:29,301 DEBUG [InsertThread --- 35] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04
15:21:29,301 DEBUG [InsertThread --- 35] - Try to get a connection from pool 2014-08-04
15:21:29,301 DEBUG [InsertThread --- 35] - getting local connection from Pool 2014-08-04
15:21:29,301 DEBUG [InsertThread --- 35] - Getting connection from connection pool entry
<database,jdbcurl2> 2014-08-04 15:21:29,301 DEBUG [InsertThread --- 35] - There are currently 2
connection pool entries 2014-08-04 15:21:29,301 DEBUG [InsertThread --- 35] - Checking if
connection limit has been reached for database 2014-08-04 15:21:29,302 DEBUG [InsertThread ---
35] - Connecting to subscriber so max number of connections allowed is 100 2014-08-04
15:21:29,302 DEBUG [InsertThread --- 35] - Number of connections in use is 0 2014-08-04
15:21:29,302 DEBUG [InsertThread --- 35] - There are currently 2 connection pool entries 2014-
08-04 15:21:29,302 DEBUG [InsertThread --- 35] - Number of available connections in pool: 0
2014-08-04 15:21:29,315 INFO [Thread-5] - IN - process. changeData &colon; 2014-08-04
15:21:29,316 INFO [Thread-5] - Inside CERTIFICATESEVICECERTIFICATEMAP - I option.. ## ... and
CERTIFICATESEVICECERTIFICATEMAP 2014-08-04 15:21:29,316 DEBUG [Thread-5] - Updated Data in
CERTIFICATESEVICECERTIFICATEMAP
::<msg><type>DBL</type><table>certificateservicecertificatemap</table><tableid>44</tableid><acti
on>I</action><time>1407158489</time><new><cdrserver>2</cdrserver><cdrtime>1407158487</cdrtime><pk
id>798ff6e1-e1d6-42e5-a4e6-30d9d7360d6d</pkid><fkcertificate>4152b36b-002e-68ac-711d-
c373fa940779</fkcertificate><tkcertificateservice>6</tkcertificateservice><ifx_replcheck>6043699
681953972226</ifx_replcheck></new></msg> 2014-08-04 15:21:29,354 DEBUG [InsertThread --- 35] -
Adding connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> to connection list 2014-08-04
15:21:29,355 DEBUG [InsertThread --- 35] - Marking connection
<com.informix.jdbc.IfxSqlConnect@1ec9f34> as used 2014-08-04 15:21:29,355 DEBUG [InsertThread -
-- 35] - Got connection from pool 2014-08-04 15:21:29,363 DEBUG [InsertThread --- 35] - Closing
the resultset. 2014-08-04 15:21:29,363 DEBUG [InsertThread --- 35] - Closing the connection.
Connection HashCode:30607587 --Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;)
2014-08-04 15:21:29,363 DEBUG [InsertThread --- 35] - Attempting to close connection 2014-08-04
15:21:29,363 DEBUG [InsertThread --- 35] - Removing connection <database,jdbcurl2> from
```

ConnectionManager list 2014-08-04 15:21:29,363 DEBUG [InsertThread --- 35] -
removeConnectionFromConnectionList() 2014-08-04 15:21:29,363 DEBUG [InsertThread --- 35] -
Removing connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> from connection list 2014-08-04
15:21:29,363 DEBUG [InsertThread --- 35] - Connection <com.informix.jdbc.IfxSqlConnect@1ec9f34>
is not closed, adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:29,363 INFO
[InsertThread --- 35] - Connection/Statement/Resultset is closed properly. 2014-08-04
15:21:29,363 DEBUG [InsertThread --- 35] - Connection released from CertDBImpl.getCertificate
method. 2014-08-04 15:21:29,363 INFO [InsertThread --- 35] - OUT -- CertDBImpl.java -
getCertificate - 2014-08-04 15:21:29,363 INFO [InsertThread --- 35] - IN -- CertDBImpl.java -
getCertUnitByPkid(pkid) - 2014-08-04 15:21:29,364 DEBUG [InsertThread --- 35] - Connection
Initialized to localnode. Connection HashCode:29897942 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:29,364 DEBUG [InsertThread --- 35] -
Select Query to getCertUnitByPkid :SELECT A.PKID, A.FKCERTIFICATE, A.TKCERTIFICATESERVICE,
B.NAME UNIT FROM CERTIFICATESERVICECERTIFICATEMAP A, TYPECERTIFICATESERVICE B WHERE
A.FKCERTIFICATE="4152b36b-002e-68ac-711d-c373fa940779" AND A.TKCERTIFICATESERVICE = B.ENUM 2014-
08-04 15:21:29,364 DEBUG [InsertThread --- 35] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04
15:21:29,364 DEBUG [InsertThread --- 35] - Try to get a connection from pool 2014-08-04
15:21:29,364 DEBUG [InsertThread --- 35] - getting local connection from Pool 2014-08-04
15:21:29,364 DEBUG [InsertThread --- 35] - Getting connection from connection pool entry
<database,jdbcurl2> 2014-08-04 15:21:29,364 DEBUG [InsertThread --- 35] - There are currently 2
connection pool entries 2014-08-04 15:21:29,364 DEBUG [InsertThread --- 35] - Adding connection
<com.informix.jdbc.IfxSqlConnect@1ec9f34> to connection list 2014-08-04 15:21:29,364 DEBUG
[InsertThread --- 35] - Marking connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> as used
2014-08-04 15:21:29,364 DEBUG [InsertThread --- 35] - Got connection from pool 2014-08-04
15:21:29,369 DEBUG [InsertThread --- 35] - Closing the resultset. 2014-08-04 15:21:29,369 DEBUG
[InsertThread --- 35] - Closing the connection. Connection HashCode:29897942 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:29,369 DEBUG
[InsertThread --- 35] - Attempting to close connection 2014-08-04 15:21:29,369 DEBUG
[InsertThread --- 35] - Removing connection <database, jdbcurl2> from ConnectionManager list
2014-08-04 15:21:29,369 DEBUG [InsertThread --- 35] - removeConnectionFromConnectionList() 2014-
08-04 15:21:29,369 DEBUG [InsertThread --- 35] - Removing connection
<com.informix.jdbc.IfxSqlConnect@1ec9f34> from connection list 2014-08-04 15:21:29,369 DEBUG
[InsertThread --- 35] - Connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:29,369 INFO [InsertThread
--- 35] - Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:29,369 DEBUG
[InsertThread --- 35] - Resultset released from CertDBImpl.getCertUnitByPkid method. 2014-08-04
15:21:29,370 INFO [InsertThread --- 35] - OUT -- CertDBImpl.java - getCertUnitByPkid - 2014-08-
04 15:21:29,370 INFO [InsertThread --- 35] - UNIT : tomcat-trust 2014-08-04 15:21:29,370 INFO
[InsertThread --- 35] - CurrentIPAddress : 10.48.46.30 2014-08-04 15:21:29,370 INFO
[InsertThread --- 35] - RemoteIPAddress : 10.48.46.29 2014-08-04 15:21:29,370 INFO [InsertThread
--- 35] - OldSerialNo : 2014-08-04 15:21:29,370 INFO [InsertThread --- 35] - NewSerialNo
:7a40f8743a793b44fe802b5f3e1e6f36 2014-08-04 15:21:29,370 INFO [InsertThread --- 35] - IN --
CertUtil.java - getListFromComaSeperatedStr(..) - 2014-08-04 15:21:29,370 INFO [InsertThread ---
35] - OUT -- CertUtil.java - getListFromComaSeperatedStr - 2014-08-04 15:21:29,370 INFO
[InsertThread --- 35] - tomcat-trust --- is included unit for CN 2014-08-04 15:21:29,370 INFO
[InsertThread --- 35] - IN -- CertUtil.java - loadCertFromString(cert) - 2014-08-04 15:21:29,370
INFO [InsertThread --- 35] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-04
15:21:29,373 INFO [InsertThread --- 35] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-
08-04 15:21:29,373 INFO [InsertThread --- 35] - OUT -- CertUtil.java - loadCertFromString - **##**
Info about the certificate has been received. CertCN will try to delete old
tomcat-trust for this node (if any) and import it 2014-08-04 15:21:29,373 INFO [InsertThread
--- 35] - IN -- CertDBUtil.java - checkDeleteAndImport(unit, dbCert) - 2014-08-04 15:21:29,373
INFO [InsertThread --- 35] - DB CertInfo.--SN:162503161730851213217569888696899890998--
SubjectDN:L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL--GetNotBefore:Mon Aug 04
15:19:07 CEST 2014--GetNotAfter:Sat Aug 03 15:19:06 CEST 2019 2014-08-04 15:21:29,373 INFO
[InsertThread --- 35] - loading certificate element named [tomcat-trust] 2014-08-04 15:21:29,373
INFO [InsertThread --- 35] - determining certificates in group [product-cpi] with type [trust-
certs] 2014-08-04 15:21:29,373 INFO [InsertThread --- 35] - loading the config file
[/usr/local/platform/conf/cert-conf.xml] 2014-08-04 15:21:29,374 INFO [InsertThread --- 35] -
looking for first [trust-certs] in [product-cpi] 2014-08-04 15:21:29,374 INFO [InsertThread ---
35] - loaded element [tomcat-trust] 2014-08-04 15:21:29,374 INFO [InsertThread --- 35] -
determining cert dir for [tomcat-trust] 2014-08-04 15:21:29,374 INFO [InsertThread --- 35] -
looking for first [dir] in [tomcat-trust] 2014-08-04 15:21:29,374 INFO [InsertThread --- 35] -

getting the value of [dir] 2014-08-04 15:21:29,374 INFO [InsertThread --- 35] - value is
[/usr/local/platform/.security/tomcat/trust-certs] 2014-08-04 15:21:29,374 INFO [InsertThread --
- 35] - cert dir is [/usr/local/platform/.security/tomcat/trust-certs] 2014-08-04 15:21:29,375
INFO [InsertThread --- 35] - [/usr/local/platform/.security/tomcat/trust-
certs/VeriSign_Class_3_Secure_Server_CA_-_G3.description] match is false 2014-08-04 15:21:29,375
INFO [InsertThread --- 35] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861s.description] match is false 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] -
[/usr/local/platform/.security/tomcat/trust-certs/VeriSign_Class_3_Secure_Server_CA_-_G3.pem]
match is true 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] -
[/usr/local/platform/.security/tomcat/trust-certs/VeriSign_Class_3_Secure_Server_CA_-_G3.der]
match is true 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] -
[/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore] match is false 2014-08-
04 15:21:29,375 INFO [InsertThread --- 35] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861s.der] match is true 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861.der] match is true 2014-08-04
15:21:29,375 INFO [InsertThread --- 35] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.description] match is false 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] -
[/usr/local/platform/.security/tomcat/trust-certs/7e0370f0.0] match is false 2014-08-04
15:21:29,375 INFO [InsertThread --- 35] - [/usr/local/platform/.security/tomcat/trust-
certs/d0aacffb.0] match is false 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] -
[/usr/local/platform/.security/tomcat/trust-certs/101f99a6.0] match is false 2014-08-04
15:21:29,375 INFO [InsertThread --- 35] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.pem] match is true 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.pem] match is true 2014-08-04
15:21:29,375 INFO [InsertThread --- 35] - IN -- RSACryptoEngine.java - loadCertificate(..) -
2014-08-04 15:21:29,375 INFO [InsertThread --- 35] - OUT -- RSACryptoEngine.java -
loadCertificate - 2014-08-04 15:21:29,375 INFO [InsertThread --- 35] - IN --
RSACryptoEngine.java - loadCertificate(..) - 2014-08-04 15:21:29,375 INFO [InsertThread --- 35]
- OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-04 15:21:29,375 INFO [InsertThread ---
35] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-04 15:21:29,376 INFO
[InsertThread --- 35] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-04 15:21:29,376
INFO [InsertThread --- 35] - IN -- CertDBUtil.java - importTrustCertInFileSystem.. unit :
tomcat-trust 2014-08-04 15:21:29,376 INFO [InsertThread --- 35] - IN -- CertDBUtil.java -
populateOpInfo(operation, unit, type, fileLocation, x509Cert, isDBInsert) - 2014-08-04
15:21:29,376 INFO [InsertThread --- 35] - loading certificate element named [tomcat-trust] 2014-
08-04 15:21:29,376 INFO [InsertThread --- 35] - determining certificates in group [product-cpi]
with type [trust-certs] 2014-08-04 15:21:29,376 INFO [InsertThread --- 35] - loading the config
file [/usr/local/platform/conf/cert-conf.xml] 2014-08-04 15:21:29,377 INFO [InsertThread --- 35]
- looking for first [trust-certs] in [product-cpi] 2014-08-04 15:21:29,377 INFO [InsertThread --
- 35] - loaded element [tomcat-trust] 2014-08-04 15:21:29,377 INFO [InsertThread --- 35] -
determining key dir for [tomcat-trust] 2014-08-04 15:21:29,377 INFO [InsertThread --- 35] -
looking for first [key-dir] in [tomcat-trust] 2014-08-04 15:21:29,377 INFO [InsertThread --- 35]
- getting the value of [key-dir] 2014-08-04 15:21:29,377 INFO [InsertThread --- 35] - value is
[/usr/local/platform/.security/tomcat/keys] 2014-08-04 15:21:29,377 INFO [InsertThread --- 35] -
key dir is [/usr/local/platform/.security/tomcat/keys] 2014-08-04 15:21:29,377 INFO
[InsertThread --- 35] - loading certificate element named [tomcat-trust] 2014-08-04 15:21:29,377
INFO [InsertThread --- 35] - determining certificates in group [product-cpi] with type [trust-
certs] 2014-08-04 15:21:29,377 INFO [InsertThread --- 35] - loading the config file
[/usr/local/platform/conf/cert-conf.xml] 2014-08-04 15:21:29,379 INFO [InsertThread --- 35] -
looking for first [trust-certs] in [product-cpi] 2014-08-04 15:21:29,379 INFO [InsertThread ---
35] - loaded element [tomcat-trust] 2014-08-04 15:21:29,379 INFO [InsertThread --- 35] -
determining cert dir for [tomcat-trust] 2014-08-04 15:21:29,379 INFO [InsertThread --- 35] -
looking for first [dir] in [tomcat-trust] 2014-08-04 15:21:29,379 INFO [InsertThread --- 35] -
getting the value of [dir] 2014-08-04 15:21:29,379 INFO [InsertThread --- 35] - value is
[/usr/local/platform/.security/tomcat/trust-certs] 2014-08-04 15:21:29,379 INFO [InsertThread --
- 35] - cert dir is [/usr/local/platform/.security/tomcat/trust-certs] 2014-08-04 15:21:29,379
INFO [InsertThread --- 35] - OUT -- CertDBUtil.java - populateOpInfo - 2014-08-04 15:21:29,379
INFO [InsertThread --- 35] - IN -- CertMgr.java - getCertMgrObj(unit) - tomcat-trust 2014-08-04
15:21:29,379 INFO [InsertThread --- 35] - OUT -- CertMgr.java - getCertMgrObj -
com.cisco.cpi.certMgmt.manager.TomcatCertMgr@104f57f 2014-08-04 15:21:29,379 INFO [InsertThread
--- 35] - IN -- DefaultCertMgr.java - importCert(info) - decode: true op: import unit: tomcat-
trust keystoreUnit:tomcat-trust logFile: /var/log/active/platform/log/cert-mgmt.log resultFile:
/var/log/active/platform/log/certde-info.xml keyDir: /usr/local/platform/.security/tomcat/keys
certDir: /usr/local/platform/.security/tomcat/trust-certs srcCert: null type: trust-certs

```
rootCACert: null trustDir: null DNAME: null description:null isDBInsert:false 2014-08-04
15:21:29,379 DEBUG [InsertThread --- 35] - Checking validity of cert 2014-08-04 15:21:29,379
INFO [InsertThread --- 35] - Verifying certificate
L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL 2014-08-04 15:21:29,379 INFO
[InsertThread --- 35] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-04
15:21:29,379 DEBUG [InsertThread --- 35] - parseCNfromDN( certSubjDN:
'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL') 2014-08-04 15:21:29,379 DEBUG
[InsertThread --- 35] - Truncating CN 'CUCM9X,OU=TAC,O=Cisco Systems,C=PL' -> 'CUCM9X' 2014-08-
04 15:21:29,379 INFO [InsertThread --- 35] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-04
15:21:29,379 DEBUG [InsertThread --- 35] - Parsed CN 'CUCM9X' from DN
'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL' 2014-08-04 15:21:29,379 INFO
[InsertThread --- 35] - trying to load cert from trust store
::/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.pem 2014-08-04 15:21:29,379 INFO
[InsertThread --- 35] - cert not available in trust store
::L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL 2014-08-04 15:21:29,379 INFO
[InsertThread --- 35] - IN -- DefaultCertMgr.java - importTrustCert(info, cert) - 2014-08-04
15:21:29,379 INFO [InsertThread --- 35] - IN -- DefaultCertMgr.java - saveToTrustStore(info,
cert) - 2014-08-04 15:21:29,379 ERROR [InsertThread --- 35] - trust directory parameter is null
2014-08-04 15:21:29,379 INFO [InsertThread --- 35] - IN -- DefaultCertMgr.java -
saveTrustCert(cert, targetDir, certType) - 2014-08-04 15:21:29,379 INFO [InsertThread --- 35] -
IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-04 15:21:29,379 DEBUG
[InsertThread --- 35] - parseCNfromDN( certSubjDN:
'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL') 2014-08-04 15:21:29,379 DEBUG
[InsertThread --- 35] - Truncating CN 'CUCM9X,OU=TAC,O=Cisco Systems,C=PL' -> 'CUCM9X' 2014-08-
04 15:21:29,379 INFO [InsertThread --- 35] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-04
15:21:29,379 DEBUG [InsertThread --- 35] - Parsed CN 'CUCM9X' from DN
'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL' 2014-08-04 15:21:29,379 INFO
[InsertThread --- 35] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-04
15:21:29,379 DEBUG [InsertThread --- 35] - parseCNfromDN( certSubjDN:
'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL') 2014-08-04 15:21:29,379 DEBUG
[InsertThread --- 35] - Truncating CN 'CUCM9X,OU=TAC,O=Cisco Systems,C=PL' -> 'CUCM9X' 2014-08-
04 15:21:29,379 INFO [InsertThread --- 35] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-04
15:21:29,379 DEBUG [InsertThread --- 35] - Parsed CN 'CUCM9X' from DN
'L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL' ## certificate will be stored in
filesystem with below name (CN from cert). Old
## certificate for CUCM9X has not been found 2014-08-04 15:21:29,379 DEBUG [InsertThread --- 35]
- target filename for imported cert: 'CUCM9X.pem' 2014-08-04 15:21:29,379 DEBUG [InsertThread --
- 35] - existing certificate with same filename not found. ## saving certificate as *.pem and
*.der 2014-08-04 15:21:29,379 DEBUG [InsertThread --- 35] - Saving PEM encoded cert
'/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.pem' 2014-08-04 15:21:29,379 INFO
[InsertThread --- 35] - IN -- CryptoUtil.java - saveAsPEM(..) - File :
/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.pem 2014-08-04 15:21:29,403 INFO
[InsertThread --- 35] - OUT -- CryptoUtil.java - saveAsPEM - 2014-08-04 15:21:29,403 DEBUG
[InsertThread --- 35] - Saving DER encoded cert '/usr/local/platform/.security/tomcat/trust-
certs/CUCM9X.der' 2014-08-04 15:21:29,406 INFO [InsertThread --- 35] - OUT --
DefaultCertMgr.java - saveTrustCert - 2014-08-04 15:21:29,406 INFO [InsertThread --- 35] - IN --
TomcatCertMgr.java - saveToKeyStore(..) - 2014-08-04 15:21:29,406 INFO [InsertThread --- 35] -
IN -- RSACryptoEngine.java - saveToKeyStore(keystoreFile, keystorePass, x509Certificate, alias)
- 2014-08-04 15:21:29,406 INFO [InsertThread --- 35] - IN -- RSACryptoEngine.java -
loadKeyStore(keystoreFile, keystorePass) - 2014-08-04 15:21:29,421 INFO [InsertThread --- 35] -
OUT -- RSACryptoEngine.java - loadKeyStore - 2014-08-04 15:21:29,421 INFO [InsertThread --- 35]
- Size of the keystore before import is : 3 2014-08-04 15:21:29,421 INFO [InsertThread --- 35] -
Importing certificate : CUCM9X 2014-08-04 15:21:29,428 INFO [InsertThread --- 35] - Size of the
keystore after import is : 4 2014-08-04 15:21:29,428 INFO [InsertThread --- 35] - OUT --
RSACryptoEngine.java - saveToKeyStore - 2014-08-04 15:21:29,428 INFO [InsertThread --- 35] - OUT
-- TomcatCertMgr.java - saveToKeyStore - 2014-08-04 15:21:29,428 DEBUG [InsertThread --- 35] -
TrustCert description filename : 'CUCM9X.description' 2014-08-04 15:21:29,439 INFO [InsertThread
--- 35] - IN -- DefaultCertMgr.java - createDescriptionFile(name, description) - 2014-08-04
15:21:29,439 INFO [InsertThread --- 35] - description is :Trust Certificate 2014-08-04
15:21:29,446 INFO [InsertThread --- 35] - OUT -- DefaultCertMgr.java - createDescriptionFile -
2014-08-04 15:21:29,446 INFO [InsertThread --- 35] - IN -- DefaultCertMgr.java -
setOwnershipAndPermissions(file) - ## setting necessary permissions for the new created files
(correcting access, owner and
## group) 2014-08-04 15:21:29,446 DEBUG [InsertThread --- 35] - setOwnershipAndPermissions :
```

CUCM9X.description 2014-08-04 15:21:29,446 DEBUG [InsertThread --- 35] - Changing ownership of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description' 2014-08-04 15:21:29,446 INFO [InsertThread --- 35] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:29,446 DEBUG [InsertThread --- 35] - Executing command from Util.sysExec : /bin/chown certbase /usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description 2014-08-04 15:21:29,471 INFO [InsertThread --- 35] - OUT -- Util.java - sysExec - 2014-08-04 15:21:29,471 DEBUG [InsertThread --- 35] - Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description' 2014-08-04 15:21:29,472 INFO [InsertThread --- 35] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:29,472 DEBUG [InsertThread --- 35] - Executing command from Util.sysExec : /bin/chgrp ccmbase /usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description 2014-08-04 15:21:29,474 INFO [InsertThread --- 35] - OUT -- Util.java - sysExec - 2014-08-04 15:21:29,475 DEBUG [InsertThread --- 35] - Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description' 2014-08-04 15:21:29,475 INFO [InsertThread --- 35] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:29,475 DEBUG [InsertThread --- 35] - Executing command from Util.sysExec : /bin/chmod 755 /usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description 2014-08-04 15:21:29,484 INFO [InsertThread --- 35] - OUT -- Util.java - sysExec - 2014-08-04 15:21:29,484 INFO [InsertThread --- 35] - OUT -- DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-04 15:21:29,484 INFO [InsertThread --- 35] - OUT -- DefaultCertMgr.java - saveToTrustStore - 2014-08-04 15:21:29,485 INFO [InsertThread --- 35] - trustdir ::/usr/local/platform/.security/tomcat/trust-certs 2014-08-04 15:21:29,485 INFO [InsertThread --- 35] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:29,485 DEBUG [InsertThread --- 35] - Executing command from Util.sysExec : python /usr/local/platform/bin/c_rehash.py /usr/local/platform/.security/tomcat/trust-certs 2014-08-04 15:21:29,668 INFO [InsertThread --- 35] - OUT -- Util.java - sysExec - 2014-08-04 15:21:29,668 INFO [InsertThread --- 35] - IN -- DefaultCertMgr.java - setOwnershipAndPermissions(file) - 2014-08-04 15:21:29,668 DEBUG [InsertThread --- 35] - setOwnershipAndPermissions : trust-certs 2014-08-04 15:21:29,668 DEBUG [InsertThread --- 35] - Changing ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-04 15:21:29,668 INFO [InsertThread --- 35] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:29,669 DEBUG [InsertThread --- 35] - Executing command from Util.sysExec : /bin/chown -R certbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-04 15:21:29,675 INFO [InsertThread --- 35] - OUT -- Util.java - sysExec - 2014-08-04 15:21:29,675 DEBUG [InsertThread --- 35] - Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-04 15:21:29,675 INFO [InsertThread --- 35] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:29,675 DEBUG [InsertThread --- 35] - Executing command from Util.sysExec : /bin/chgrp -R ccmbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-04 15:21:29,680 INFO [InsertThread --- 35] - OUT -- Util.java - sysExec - 2014-08-04 15:21:29,680 DEBUG [InsertThread --- 35] - Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-04 15:21:29,680 INFO [InsertThread --- 35] - IN -- Util.java - sysExec(exe, args) - 2014-08-04 15:21:29,680 DEBUG [InsertThread --- 35] - Executing command from Util.sysExec : /bin/chmod -R 755 /usr/local/platform/.security/tomcat/trust-certs 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- Util.java - sysExec - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - No plugins registered for DB Store 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - IN -- CryptoUtil.java - isOCSPEnabled(..) - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - IN -- CryptoUtil.java - getCertMonitorXmlParser(..) - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- CryptoUtil.java - getCertMonitorXmlParser - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- CryptoUtil.java - isOCSPEnabled - false 2014-08-04 15:21:29,683 DEBUG [InsertThread --- 35] - OCSP is not enabled. 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - Successfully imported trusted certificate with Subject DN:L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- DefaultCertMgr.java - importTrustCert - Successfully imported trusted certificate with Subject DN:L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL ## **inserting certificate ends with success** 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - result of import operations is ::Import of trust certificate is successful 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- DefaultCertMgr.java - importCert - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- CertDBUtil.java - importTrustCertInFileSystem - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- CertDBUtil.java - checkDeleteAndImport - 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - tomcat-trust Certificate successfully updated in trust-store by Change Notification.. 2014-08-04 15:21:29,683 INFO [InsertThread --- 35] - OUT -- CertKeystoreHandler.java - updateIntoKeystore - 2014-08-04 15:21:29,683 DEBUG [InsertThread --- 35] - InsertThread --- 35 -- END -- 2014-08-04 15:21:29,683

INFO [InsertThread --- 35] - OUT -- CertKeystoreHandler.java - run - 2014-08-04 15:21:29,786
DEBUG [ConnectionCleaner] - Cleaning connection list **## above process was the result for row inserted into CERTIFICATE table. Similar check ## will be done for the row inserted into CERTIFICATESERVICECERTIFICATEMAP** 2014-08-04
15:21:34,322 INFO [Thread-5] - Inside CERTIFICATESERVICECERTIFICATEMAP - I option.. 2014-08-04
15:21:34,322 DEBUG [Thread-5] - Insert Data in CERTIFICATESERVICECERTIFICATEMAP
::<msg><type>DBL</type><table>certificateservicecertificatemap</table><tableid>44</tableid><action>I</action><time>1407158489</time><new><cdrserver>2</cdrserver><cdftime>1407158487</cdftime><pkid>798ff6e1-e1d6-42e5-a4e6-30d9d7360d6d</pkid><fkcertificate>4152b36b-002e-68ac-711d-c373fa940779</fkcertificate><tkcertificateservice>6</tkcertificateservice><ifx_replcheck>6043699681953972226</ifx_replcheck></new></msg> 2014-08-04 15:21:34,322 INFO [Thread-5] - IN -- CertDBImpl.java - getCertificate(certBash64SHA1:null --pkid:4152b36b-002e-68ac-711d-c373fa940779 2014-08-04 15:21:34,323 DEBUG [Thread-5] - Connection Initialized to localnode. Connection HashCode:32140521 --Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:34,323 DEBUG [Thread-5] - Select Query to getCertificate :SELECT A.*,B.HASH FROM CERTIFICATE A, CERTIFICATEHASHMAP B WHERE A.PKID=B.FKCERTIFICATE AND A.PKID = "4152b36b-002e-68ac-711d-c373fa940779" 2014-08-04 15:21:34,323 DEBUG [Thread-5] - getConn: usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04 15:21:34,323 DEBUG [Thread-5] - Try to get a connection from pool 2014-08-04 15:21:34,323 DEBUG [Thread-5] - getting local connection from Pool 2014-08-04 15:21:34,324 DEBUG [Thread-5] - Getting connection from connection pool entry <database,jdbcurl2> 2014-08-04 15:21:34,324 DEBUG [Thread-5] - There are currently 2 connection pool entries 2014-08-04 15:21:34,324 DEBUG [Thread-5] - Adding connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> to connection list 2014-08-04 15:21:34,324 DEBUG [Thread-5] - Marking connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> as used 2014-08-04 15:21:34,324 DEBUG [Thread-5] - Got connection from pool 2014-08-04 15:21:34,328 DEBUG [Thread-5] - Closing the resultset. 2014-08-04 15:21:34,329 DEBUG [Thread-5] - Closing the connection. Connection HashCode:32140521 --Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:34,329 DEBUG [Thread-5] - Attempting to close connection 2014-08-04 15:21:34,329 DEBUG [Thread-5] - Removing connection <database, jdbcurl2> from ConnectionManager list 2014-08-04 15:21:34,329 DEBUG [Thread-5] - removeConnectionFromConnectionList() 2014-08-04 15:21:34,329 DEBUG [Thread-5] - Removing connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> from connection list 2014-08-04 15:21:34,329 DEBUG [Thread-5] - Connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> is not closed, adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:34,329 INFO [Thread-5] - Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:34,329 DEBUG [Thread-5] - Connection released from CertDBImpl.getCertificate method. 2014-08-04 15:21:34,329 INFO [Thread-5] - OUT -- CertDBImpl.java - getCertificate - 2014-08-04 15:21:34,329 DEBUG [Thread-5] - Certificate PKID : 4152b36b-002e-68ac-711d-c373fa940779 , ipAddress : 10.48.46.29 , OldSerialNo : 7a40f8743a793b44fe802b5f3e1e6f36 , NewSerialNo : 7a40f8743a793b44fe802b5f3e1e6f36 2014-08-04 15:21:34,329 INFO [Thread-5] - OUT - process. 2014-08-04 15:21:34,330 INFO [InsertThread --- 36] - IN -- CertKeystoreHandler.java - run() - 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - InsertThread --- 36 -- START -- 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - DB Value UPDATE: 4152b36b-002e-68ac-711d-c373fa940779 2014-08-04 15:21:34,330 INFO [InsertThread --- 36] - IN -- CertKeystoreHandler.java - updateIntoKeystore() - 2014-08-04 15:21:34,330 INFO [InsertThread --- 36] - IN -- CertDBImpl.java - getCertificate(certBash64SHA1:null --pkid:4152b36b-002e-68ac-711d-c373fa940779 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - Connection Initialized to localnode. Connection HashCode:14972385 --Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - Select Query to getCertificate :SELECT A.*,B.HASH FROM CERTIFICATE A, CERTIFICATEHASHMAP B WHERE A.PKID=B.FKCERTIFICATE AND A.PKID = "4152b36b-002e-68ac-711d-c373fa940779" 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - getConn: usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - Try to get a connection from pool 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - getting local connection from Pool 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - Getting connection from connection pool entry <database,jdbcurl2> 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - There are currently 2 connection pool entries 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - Adding connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> to connection list 2014-08-04 15:21:34,330 DEBUG [InsertThread --- 36] - Marking connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> as used 2014-08-04 15:21:34,331 DEBUG [InsertThread --- 36] - Got connection from pool 2014-08-04 15:21:34,333 DEBUG [InsertThread --- 36] - Closing the resultset. 2014-08-04 15:21:34,333 DEBUG [InsertThread --- 36] - Closing the connection. Connection HashCode:14972385 --Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:34,333 DEBUG [InsertThread --- 36] - Attempting to close connection 2014-08-04 15:21:34,333 DEBUG

[InsertThread --- 36] - Removing connection <database, jdbcurl2> from ConnectionManager list
2014-08-04 15:21:34,333 DEBUG [InsertThread --- 36] - removeConnectionFromConnectionList() 2014-
08-04 15:21:34,333 DEBUG [InsertThread --- 36] - Removing connection
<com.informix.jdbc.IfxSqlConnect@1ec9f34> from connection list 2014-08-04 15:21:34,334 DEBUG
[InsertThread --- 36] - Connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:34,334 INFO [InsertThread
--- 36] - Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:34,334 DEBUG
[InsertThread --- 36] - Connection released from CertDBImpl.getCertificate method. 2014-08-04
15:21:34,334 INFO [InsertThread --- 36] - OUT -- CertDBImpl.java - getCertificate - 2014-08-04
15:21:34,334 INFO [InsertThread --- 36] - IN -- CertDBImpl.java - getCertUnitByPkid(pkid) -
2014-08-04 15:21:34,334 DEBUG [InsertThread --- 36] - Connection Initialized to localnode.
Connection HashCode:16196072 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:34,334 DEBUG [InsertThread --- 36] -
Select Query to getCertUnitByPkid :SELECT A.PKID, A.FKCERTIFICATE, A.TKCERTIFICATESERVICE,
B.NAME UNIT FROM CERTIFICATESERVICECERTIFICATEMAP A, TYPECERTIFICATESERVICE B WHERE
A.FKCERTIFICATE="4152b36b-002e-68ac-711d-c373fa940779" AND A.TKCERTIFICATESERVICE = B.ENUM 2014-
08-04 15:21:34,334 DEBUG [InsertThread --- 36] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-04
15:21:34,334 DEBUG [InsertThread --- 36] - Try to get a connection from pool 2014-08-04
15:21:34,334 DEBUG [InsertThread --- 36] - getting local connection from Pool 2014-08-04
15:21:34,334 DEBUG [InsertThread --- 36] - Getting connection from connection pool entry
<database,jdbcurl2> 2014-08-04 15:21:34,334 DEBUG [InsertThread --- 36] - There are currently 2
connection pool entries 2014-08-04 15:21:34,334 DEBUG [InsertThread --- 36] - Adding connection
<com.informix.jdbc.IfxSqlConnect@1ec9f34> to connection list 2014-08-04 15:21:34,334 DEBUG
[InsertThread --- 36] - Marking connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> as used
2014-08-04 15:21:34,334 DEBUG [InsertThread --- 36] - Got connection from pool 2014-08-04
15:21:34,337 DEBUG [InsertThread --- 36] - Closing the resultset. 2014-08-04 15:21:34,337 DEBUG
[InsertThread --- 36] - Closing the connection. Connection HashCode:16196072 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-04 15:21:34,337 DEBUG
[InsertThread --- 36] - Attempting to close connection 2014-08-04 15:21:34,337 DEBUG
[InsertThread --- 36] - Removing connection <database, jdbcurl2> from ConnectionManager list
2014-08-04 15:21:34,337 DEBUG [InsertThread --- 36] - removeConnectionFromConnectionList() 2014-
08-04 15:21:34,337 DEBUG [InsertThread --- 36] - Removing connection
<com.informix.jdbc.IfxSqlConnect@1ec9f34> from connection list 2014-08-04 15:21:34,351 DEBUG
[InsertThread --- 36] - Connection <com.informix.jdbc.IfxSqlConnect@1ec9f34> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-04 15:21:34,351 INFO [InsertThread
--- 36] - Connection/Statement/Resultset is closed properly. 2014-08-04 15:21:34,351 DEBUG
[InsertThread --- 36] - Resultset released from CertDBImpl.getCertUnitByPkid method. 2014-08-04
15:21:34,351 INFO [InsertThread --- 36] - OUT -- CertDBImpl.java - getCertUnitByPkid - 2014-08-
04 15:21:34,351 INFO [InsertThread --- 36] - UNIT : tomcat-trust 2014-08-04 15:21:34,351 INFO
[InsertThread --- 36] - CurrentIPAddress : 10.48.46.30 2014-08-04 15:21:34,351 INFO
[InsertThread --- 36] - RemoteIPAddress : 10.48.46.29 2014-08-04 15:21:34,351 INFO [InsertThread
--- 36] - OldSerialNo :7a40f8743a793b44fe802b5f3e1e6f36 2014-08-04 15:21:34,351 INFO
[InsertThread --- 36] - NewSerialNo :7a40f8743a793b44fe802b5f3e1e6f36 2014-08-04 15:21:34,351
INFO [InsertThread --- 36] - IN -- CertUtil.java - getListFromComaSeperatedStr(..) - 2014-08-04
15:21:34,351 INFO [InsertThread --- 36] - OUT -- CertUtil.java - getListFromComaSeperatedStr -
2014-08-04 15:21:34,351 INFO [InsertThread --- 36] - tomcat-trust --- is included unit for CN
2014-08-04 15:21:34,351 INFO [InsertThread --- 36] - IN -- CertUtil.java -
loadCertFromString(cert) - 2014-08-04 15:21:34,351 INFO [InsertThread --- 36] - IN --
RSACryptoEngine.java - loadCertificate(..) - 2014-08-04 15:21:34,351 INFO [InsertThread --- 36]
- OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-04 15:21:34,351 INFO [InsertThread ---
36] - OUT -- CertUtil.java - loadCertFromString - 2014-08-04 15:21:34,351 INFO [InsertThread ---
36] - IN -- CertDBUtil.java - checkDeleteAndImport(unit, dbCert) - 2014-08-04 15:21:34,351 INFO
[InsertThread --- 36] - DB CertInfo.--SN:162503161730851213217569888696899890998--
SubjectDN:L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL--GetNotBefore:Mon Aug 04
15:19:07 CEST 2014--GetNotAfter:Sat Aug 03 15:19:06 CEST 2019 2014-08-04 15:21:34,351 INFO
[InsertThread --- 36] - loading certificate element named [tomcat-trust] 2014-08-04 15:21:34,351
INFO [InsertThread --- 36] - determining certificates in group [product-cpi] with type [trust-
certs] 2014-08-04 15:21:34,352 INFO [InsertThread --- 36] - loading the config file
[/usr/local/platform/conf/cert-conf.xml] 2014-08-04 15:21:34,353 INFO [InsertThread --- 36] -
looking for first [trust-certs] in [product-cpi] 2014-08-04 15:21:34,353 INFO [InsertThread ---
36] - loaded element [tomcat-trust] 2014-08-04 15:21:34,353 INFO [InsertThread --- 36] -
determining cert dir for [tomcat-trust] 2014-08-04 15:21:34,353 INFO [InsertThread --- 36] -
looking for first [dir] in [tomcat-trust] 2014-08-04 15:21:34,353 INFO [InsertThread --- 36] -

```

getting the value of [dir] 2014-08-04 15:21:34,353 INFO [InsertThread --- 36] - value is
[/usr/local/platform/.security/tomcat/trust-certs] 2014-08-04 15:21:34,353 INFO [InsertThread --
- 36] - cert dir is [/usr/local/platform/.security/tomcat/trust-certs] 2014-08-04 15:21:34,354
INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/VeriSign_Class_3_Secure_Server_CA_-_G3.description] match is false 2014-08-04 15:21:34,354
INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861s.description] match is false 2014-08-04 15:21:34,354 INFO [InsertThread --- 36] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.description] match is false 2014-08-04
15:21:34,354 INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/VeriSign_Class_3_Secure_Server_CA_-_G3.pem] match is true 2014-08-04 15:21:34,354 INFO
[InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/VeriSign_Class_3_Secure_Server_CA_-_G3.der] match is true 2014-08-04 15:21:34,354 INFO
[InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore]
match is false 2014-08-04 15:21:34,354 INFO [InsertThread --- 36] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.der] match is true 2014-08-04
15:21:34,354 INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/25ffab9b.0] match is false 2014-08-04 15:21:34,354 INFO [InsertThread --- 36] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861.der] match is true 2014-08-04
15:21:34,354 INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.description] match is false 2014-08-04 15:21:34,354 INFO [InsertThread --- 36] -
[/usr/local/platform/.security/tomcat/trust-certs/7e0370f0.0] match is false 2014-08-04
15:21:34,354 INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/d0aacffb.0] match is false 2014-08-04 15:21:34,354 INFO [InsertThread --- 36] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.der] match is true 2014-08-04
15:21:34,354 INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/101f99a6.0] match is false 2014-08-04 15:21:34,354 INFO [InsertThread --- 36] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM9X.pem] match is true 2014-08-04
15:21:34,354 INFO [InsertThread --- 36] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.pem] match is true 2014-08-04 15:21:34,354 INFO [InsertThread --- 36] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.pem] match is true 2014-08-04
15:21:34,355 INFO [InsertThread --- 36] - IN -- RSACryptoEngine.java - loadCertificate(..) -
2014-08-04 15:21:34,355 INFO [InsertThread --- 36] - OUT -- RSACryptoEngine.java -
loadCertificate - 2014-08-04 15:21:34,355 INFO [InsertThread --- 36] - IN --
RSACryptoEngine.java - loadCertificate(..) - 2014-08-04 15:21:34,355 INFO [InsertThread --- 36]
- OUT -- RSACryptoEngine.java - loadCertificate - ## but since it has been checked that the
certificate is already in the filesystem,
## nothing will be added. 2014-08-04 15:21:34,355 DEBUG [InsertThread --- 36] - SUBJECTDN of
DBCert and FileSystemCert compared correctly.. 2014-08-04 15:21:34,355 DEBUG [InsertThread ---
36] - Certificate already exists in FileSystem.. 2014-08-04 15:21:34,355 INFO [InsertThread ---
36] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-04 15:21:34,355 INFO
[InsertThread --- 36] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-04 15:21:34,355
INFO [InsertThread --- 36] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-04
15:21:34,356 INFO [InsertThread --- 36] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-
08-04 15:21:34,356 INFO [InsertThread --- 36] - OUT -- CertDBUtil.java - checkDeleteAndImport -
2014-08-04 15:21:34,356 INFO [InsertThread --- 36] - tomcat-trust Certificate successfully
updated in trust-store by Change Notification.. 2014-08-04 15:21:34,356 INFO [InsertThread ---
36] - OUT -- CertKeystoreHandler.java - updateIntoKeystore - 2014-08-04 15:21:34,356 DEBUG
[InsertThread --- 36] - InsertThread --- 36 -- END -- 2014-08-04 15:21:34,356 INFO [InsertThread
--- 36] - OUT -- CertKeystoreHandler.java - run -

```

f. Cuando usted ahora mira el certificado en el filesystem llano usted puede verificar la suma de comprobación del md5 (md5sum) y verá que sea lo mismo que en el nodo del editor.

En el GUI usted puede verificar lo mismo por compara el número de serie.

```

[root@CUCM861s tomcat]# pwd /usr/local/platform/.security/tomcat [root@CUCM861s tomcat]# ls -la
total 40 drwxr-xr-x 5 root root 4096 Apr 4 14:33 . drwxr-xr-x 5 root root 4096 Apr 4 14:33 ..
drwxr-xr-x 2 certbase ccmbase 4096 Aug 2 22:51 certs drwxr-xr-x 2 certbase ccmbase 4096 Aug 2
22:51 keys drwxr-xr-x 2 certbase ccmbase 4096 Aug 4 15:21 trust-certs [root@CUCM861s tomcat]# ls
-la certs total 48 drwxr-xr-x 2 certbase ccmbase 4096 Aug 2 22:51 . drwxr-xr-x 5 root root 4096
Apr 4 14:33 .. -rwxr-xr-x 1 certbase ccmbase 941 Aug 2 22:51 tomcat.der -rwxr-xr-x 1 certbase
ccmbase 64 Aug 2 22:51 tomcat.description -rwxr-xr-x 1 certbase ccmbase 2598 Aug 2 22:51
tomcat.keystore -rwxr-xr-x 1 certbase ccmbase 1330 Aug 2 22:51 tomcat.pem [root@CUCM861s
tomcat]# ls -la trust-certs total 140 drwxr-xr-x 2 certbase ccmbase 4096 Aug 4 15:21 . drwxr-xr-

```

```
x 5 root root 4096 Apr 4 14:33 .. lrwxrwxrwx 1 certbase ccbase 11 Aug 4 15:21 101f99a6.0 ->
CUCM861.pem lrwxrwxrwx 1 certbase ccbase 10 Aug 4 15:21 25ffab9b.0 -> CUCM9X.pem lrwxrwxrwx 1
certbase ccbase 42 Aug 4 15:21 7e0370f0.0 -> VeriSign_Class_3_Secure_Server_CA_-_G3.pem -rwxr-
xr-x 1 certbase ccbase 939 Aug 2 23:36 CUCM861.der -rwxr-xr-x 1 certbase ccbase 44 Aug 2 23:36
CUCM861.description -rwxr-xr-x 1 certbase ccbase 1326 Aug 2 23:36 CUCM861.pem -rwxr-xr-x 1
certbase ccbase 941 Aug 2 22:51 CUCM861s.der -rwxr-xr-x 1 certbase ccbase 44 Aug 2 22:51
CUCM861s.description -rwxr-xr-x 1 certbase ccbase 1330 Aug 2 22:51 CUCM861s.pem -rwxr-xr-x 1
certbase ccbase 953 Aug 4 15:21 CUCM9X.der -rwxr-xr-x 1 certbase ccbase 44 Aug 4 15:21
CUCM9X.description -rwxr-xr-x 1 certbase ccbase 1346 Aug 4 15:21 CUCM9X.pem lrwxrwxrwx 1
certbase ccbase 12 Aug 4 15:21 d0aacffb.0 -> CUCM861s.pem -rwxr-xr-x 1 certbase ccbase 4939
Aug 4 15:21 tomcat-trust.keystore -rwxr-xr-x 1 certbase ccbase 1520 Apr 4 14:33
VeriSign_Class_3_Secure_Server_CA_-_G3.der -rwxr-xr-x 1 certbase ccbase 44 Apr 4 14:33
VeriSign_Class_3_Secure_Server_CA_-_G3.description -rwxr-xr-x 1 certbase ccbase 2114 Apr 4
14:33 VeriSign_Class_3_Secure_Server_CA_-_G3.pem [root@CUCM861s tomcat]# md5sum trust-
certs/CUCM9X.pem a0a2e12a42e4bbb10655c9b299839d9 trust-certs/CUCM9X.pem
```

Show ▾ Settings ▾ Security ▾ Software Upgrades ▾ Services ▾ Help ▾

Certificate Configuration

✖ Delete
 ⬇ Download

Status

i Status: Ready

Certificate Settings

File Name	CUCM9X.pem
Certificate Name	tomcat-trust
Certificate Type	trust-certs
Certificate Group	product-cpi
Description	Trust Certificate

Certificate File Data

```
[
Version: V3
Serial Number: 162503161730851213217569888696899890998
Signature Algorithm: SHA256withRSA (1.2.840.113549.1.1.11)
Issuer Name: L=Krakow, ST=Malopolska, CN=CUCM9X, OU=TAC, O=Cisco Systems, C=PL
Validity From: Mon Aug 04 15:19:07 CEST 2014
To: Sat Aug 03 15:19:06 CEST 2019
Subject Name: L=Krakow, ST=Malopolska, CN=CUCM9X, OU=TAC, O=Cisco Systems, C=PL
Key: RSA (1.2.840.113549.1.1.1)
Key value:
3082010a0282010100cb42282338f20e9682fe018c4f0b0951aa32bc0771c1184052fb2ba3b96aafeace37e1d002964115d4f0f6a
2f452ff9c02f09329f5ec978409225eafc5c31606ac05e92d4e230004f43ca1636664b9188b5f43b6e1e4677f7d0578f1fd8e5e5e55
553097808a6954b7c5af72abac9a61ae28ecf13a432a4af520c82a6d881d0ea3d475f6e995cb28b2499878452b972715ba3eed45
3376d884bb7f97050b674d0b12fdb33ba156dcb32a98b9a41d76b4f966bce8f50123c7806e33adbdbd8e611c82623f390e4ee2c
692f9d123c7dbbe83dae6acdbaf674a60b6c1c75372228de3d90a72a6e49138a220b5a88db35304de72f91893e3126745de5f237
65ab910203010001
Extensions: 3 present
[
Extension: KeyUsage (OID.2.5.29.15)
Critical: false
Usages: digitalSignature, keyEncipherment, dataEncipherment, keyAgreement, keyCertSign,
]
[
Extension: ExtKeyUsageSyntax (OID.2.5.29.37)
Critical: false
Usage oids: 1.3.6.1.5.5.7.3.1, 1.3.6.1.5.5.7.3.2, 1.3.6.1.5.5.7.3.5,
]
]
```

Delete
Download

4.B. Certificado de la Tomcat-confianza de la cancelación

En el segundo escenario usted quitará el certificado de la Tomcat-confianza cargado en la sección 4.A.

Cuando analice este ejemplo usted necesita recordar alrededor debajo de la declaración del diseño:

“El servicio de la notificación de cambio no propagará la cancelación de un certificado del almacén de la confianza del tomcat de un nodo a la otra. Esto implica que la cancelación de un certificado de la confianza del tomcat a partir de un nodo no borra automáticamente el mismo certificado de otros Nodos. Este comportamiento se implementa para asegurarse de que el administrador tendrá la capacidad de quitar ciertos Nodos de confiar en las aplicaciones en otros Nodos debido a las observaciones de seguridad.”

Arriba es válido solamente para el tipo de certificado de la confianza del tomcat.

La operación de eliminación consiste en debajo de los pasos:

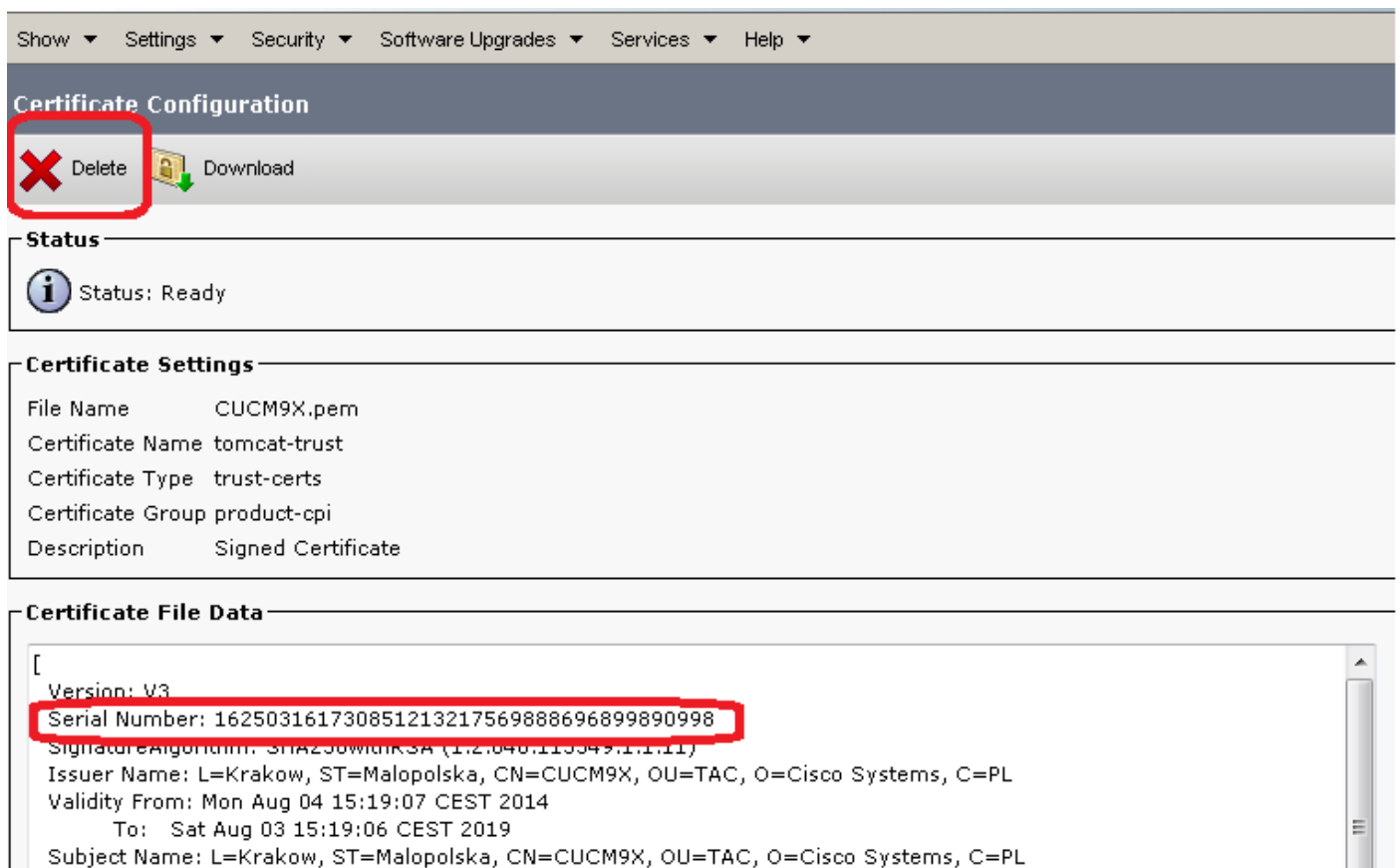
cancelación **A.** el certificado de la página CM.

los archivos de certificado **B.** se borran del filesystem

el certCN **C.** golpea con el pie adentro en el editor y suscriptor. No se requiere ninguna operación por ambos ellos.

d. que borra el mismo certificado de la Tomcat-confianza del nodo del suscriptor

a. Operación de eliminación iniciada de la página CM



The screenshot shows the 'Certificate Configuration' interface. At the top, there are menu items: Show, Settings, Security, Software Upgrades, Services, and Help. Below the title bar, there are two buttons: 'Delete' (with a red 'X' icon) and 'Download' (with a download icon). The 'Delete' button is highlighted with a red box. Below the buttons, there is a 'Status' section with an information icon and the text 'Status: Ready'. The 'Certificate Settings' section lists the following details: File Name: CUCM9X.pem, Certificate Name: tomcat-trust, Certificate Type: trust-certs, Certificate Group: product-cpi, and Description: Signed Certificate. The 'Certificate File Data' section shows the following information: Version: V3, Serial Number: 162503161730851213217569888696899890998 (highlighted with a red box), Signature Algorithm: SHA256withRSA (1.2.840.113549.1.1.11), Issuer Name: L=Krakow, ST=Malopolska, CN=CUCM9X, OU=TAC, O=Cisco Systems, C=PL, Validity From: Mon Aug 04 15:19:07 CEST 2014, To: Sat Aug 03 15:19:06 CEST 2019, and Subject Name: L=Krakow, ST=Malopolska, CN=CUCM9X, OU=TAC, O=Cisco Systems, C=PL.

El CERT se borra del filesystem y de las filas correspondientes en la base de datos también borrada. El certificado sí mismo no se quita de la tabla CERTIFICATE. Sigamos esto en los registros CM (comentarios en línea):

2014-08-19 23:25:10,720 INFO [main] - IN -- CertMgr.java - mainInternal(args) -
2014-08-19 23:25:10,721 INFO [main] - decode

delete operation is invoked here 2014-08-19 23:25:10,722 INFO [main] - op:delete 2014-08-19
23:25:10,722 INFO [main] - unit:tomcat-trust 2014-08-19 23:25:10,722 INFO [main] - cert-
dir:%2Fusr%2Flocal%2Fplatform%2F.security%2Ftomcat%2Ftrust-certs%2FCUCM9X.pem 2014-08-19
23:25:10,722 INFO [main] - key-dir:%2Fusr%2Flocal%2Fplatform%2F.security%2Ftomcat%2Fkeys 2014-
08-19 23:25:10,722 INFO [main] - logfile:%2Fvar%2Flog%2Factive%2Fplatform%2Flog%2Fcert-mgmt.log
2014-08-19 23:25:10,722 INFO [main] -
resultfile:%2Fvar%2Flog%2Factive%2Fplatform%2Flog%2Fcertde-info.xml 2014-08-19 23:25:10,722 INFO
[main] - type:trust-certs 2014-08-19 23:25:10,749 INFO [main] - Parsed information 2014-08-19
23:25:10,749 INFO [main] - OrgName: CISCO 2014-08-19 23:25:10,749 INFO [main] - OrgUnit: TAC
2014-08-19 23:25:10,749 INFO [main] - Location: KRAKOW 2014-08-19 23:25:10,749 INFO [main] -
Country: PL 2014-08-19 23:25:10,749 INFO [main] - State: MALOPOLSKA 2014-08-19 23:25:10,749 INFO
[main] - Hostname: CUCM861 2014-08-19 23:25:10,750 INFO [main] - AlternateHostname: null 2014-
08-19 23:25:10,750 INFO [main] - Domain Name: 2014-08-19 23:25:10,750 INFO [main] - IPAddress:
10.48.46.29 2014-08-19 23:25:10,751 INFO [main] - In parseXML() 2014-08-19 23:25:10,761 INFO
[main] - FQDN Name retrived by InetAddress : CUCM861 2014-08-19 23:25:10,761 INFO [main] - CN:
CUCM861 2014-08-19 23:25:10,761 INFO [main] - Temp before mod is 2014-08-19 23:25:10,761 INFO
[main] - Temp afer mod is TAC 2014-08-19 23:25:10,761 INFO [main] - Temp in else is TAC 2014-08-
19 23:25:10,761 INFO [main] - Temp before mod is 2014-08-19 23:25:10,761 INFO [main] - Temp afer
mod is TAC 2014-08-19 23:25:10,761 INFO [main] - Temp in else is TAC 2014-08-19 23:25:10,762
INFO [main] - OuFields are TAC 2014-08-19 23:25:10,762 DEBUG [main] - Field after encoding: TAC
2014-08-19 23:25:10,762 DEBUG [main] - Field after encoding: CISCO 2014-08-19 23:25:10,762 DEBUG
[main] - Field after encoding: KRAKOW 2014-08-19 23:25:10,762 DEBUG [main] - Field after
encoding: MALOPOLSKA 2014-08-19 23:25:10,762 DEBUG [main] - Field after encoding: PL 2014-08-19
23:25:10,765 INFO [main] - OU field is :TAC 2014-08-19 23:25:10,765 INFO [main] - SubjectDN ::
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL 2014-08-19 23:25:10,765 INFO [main] - IN -
- CertMgr.java - getCertMgrObj(unit) - tomcat-trust 2014-08-19 23:25:10,774 INFO [main] - OUT --
CertMgr.java - getCertMgrObj - com.cisco.cpi.certMgmt.manager.TomcatCertMgr@92bbba 2014-08-19
23:25:10,774 INFO [main] - Dummy loadProperties 2014-08-19 23:25:10,774 INFO [main] - IN --
CertMgr.java - doOp(info) - **## details about the certificate that will be deleted** 2014-08-19
23:25:10,774 INFO [main] - IN -- DefaultCertMgr.java - deleteCert(info) - decode: true op:
delete unit: tomcat-trust keystoreUnit:tomcat-trust logFile: /var/log/active/platform/log/cert-
mgmt.log resultFile: /var/log/active/platform/log/certde-info.xml keyDir:
/usr/local/platform/.security/tomcat/keys certDir: /usr/local/platform/.security/tomcat/trust-
certs/CUCM9X.pem srcCert: null type: trust-certs rootCACert: null trustDir: null DNAME:
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL description:null isDBInsert:true **##**
certificate file name 2014-08-19 23:25:10,775 INFO [main] - parsed filename: 'CUCM9X.pem' 2014-
08-19 23:25:10,775 DEBUG [main] - filename: 'CUCM9X.pem' 2014-08-19 23:25:10,775 DEBUG [main] -
fileRoot: 'CUCM9X' 2014-08-19 23:25:10,775 INFO [main] - IN -- DefaultCertMgr.java -
deleteDERandPEM(filenameRoot, parentDir, info) - **## it will remove two files: CUCM9X.DER and**
CUCM9X.PEM 2014-08-19 23:25:10,775 DEBUG [main] -
ParentDir:/usr/local/platform/.security/tomcat/trust-certsFileName.(DER/PEM):CUCM9X 2014-08-19
23:25:11,100 DEBUG [main] - Loading RSA providers explicitly... 2014-08-19 23:25:12,486 DEBUG
[main] - RSA providers are loaded explicitly... 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.1=JsafeJCE 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.2=RsaJsse 2014-08-19 23:25:12,487 DEBUG [main] - New security.provider.3=BC
2014-08-19 23:25:12,487 DEBUG [main] - New security.provider.4=SUN 2014-08-19 23:25:12,487 DEBUG
[main] - New security.provider.5=SunRsaSign 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.6=SunJSSE 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.7=SunJCE 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.8=SunJGSS 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.9=SunSASL 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.10=XMLDSig 2014-08-19 23:25:12,487 DEBUG [main] - New
security.provider.11=SunPCSC 2014-08-19 23:25:12,487 INFO [main] - IN -- RSACryptoEngine.java -
loadCertificate(..) - 2014-08-19 23:25:12,802 INFO [main] - OUT -- RSACryptoEngine.java -
loadCertificate - 2014-08-19 23:25:12,826 INFO [main] - IN -- CertUtil.java -
populateCertInfo(cert, opInfo, certFilePemLocation) - 2014-08-19 23:25:12,827 INFO [main] - IN -
- CertUtil.java - getHostName(..) - 2014-08-19 23:25:12,827 INFO [main] - OUT-- CertUtil.java -
getHostName - CUCM861 2014-08-19 23:25:12,830 INFO [main] - IN -- CryptoUtil.java -
saveAsPEM(..) - 2014-08-19 23:25:12,834 INFO [main] - OUT -- CryptoUtil.java - saveAsPEM - 2014-
08-19 23:25:12,834 INFO [main] - OUT -- CertUtil.java - populateCertInfo - **## certificate on the**
filesystem level has been deleted. Now the same must be done on the

```
## DB level 2014-08-19 23:25:12,835 INFO [main] - IN -- CertDBAction.java -
deleteCertificateInDB(certInfo) - 2014-08-19 23:25:12,835 INFO [main] - DBParameters ... PKID :
null CN : L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL serialNo :
7a40f8743a793b44fe802b5f3e1e6f36 hostName : CUCM861 issuerName :
L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL Certificate : Not Printing huge
Certificate String.. IPV4Address : 10.48.46.29 IPV6Address : TimeToLive : NULL UNIT : tomcat-
trust TYPE : trust-certs ROLE : null RoleMoniker : null RoleEnum :null SERVICE : null
ServiceMoniker : null ServiceEnum :0 2014-08-19 23:25:12,835 INFO [main] - DB - Certifciate
Store Plugin Handler is :com.cisco.ccm.certmgmt.db.CertDBImpl 2014-08-19 23:25:12,859 INFO
[main] - IN -- CertDBImpl.java - deleteCertificate(certInfo) - 2014-08-19 23:25:13,024 DEBUG
[main] - Connection Initialized to localnode. Connection HashCode:14098944 --
Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-19 23:25:13,024
DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-19
23:25:13,026 DEBUG [main] - Try to get a connection from pool 2014-08-19 23:25:13,026 DEBUG
[main] - getting local connection from Pool 2014-08-19 23:25:13,029 DEBUG [main] - Getting
connection from connection pool entry <database,jdbcurl2> 2014-08-19 23:25:13,029 DEBUG [main] -
There are currently 0 connection pool entries 2014-08-19 23:25:13,034 DEBUG [main] - Checking if
connection limit has been reached for database 2014-08-19 23:25:13,035 DEBUG [main] - Connecting
to publisher so max number of connections allowed is 100 2014-08-19 23:25:13,035 DEBUG [main] -
Number of connections in use is 0 2014-08-19 23:25:13,035 DEBUG [main] - There is currently 1
connection pool entry 2014-08-19 23:25:13,035 DEBUG [main] - Number of available connections in
pool: 0 2014-08-19 23:25:13,406 DEBUG [main] - Adding connection
<com.informix.jdbc.IfxSqlConnect@196e136> to connection list 2014-08-19 23:25:13,407 DEBUG
[main] - Marking connection <com.informix.jdbc.IfxSqlConnect@196e136> as used 2014-08-19
23:25:13,407 DEBUG [main] - Got connection from pool 2014-08-19 23:25:13,412 DEBUG [main] -
getConn: usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-19
23:25:13,418 DEBUG [main] - Closing the resultset. 2014-08-19 23:25:13,419 DEBUG [main] -
Closing the connection. Connection HashCode:14098944 --Details:Connector(CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-19 23:25:13,419 DEBUG [main] - Attempting to close
connection 2014-08-19 23:25:13,419 DEBUG [main] - Removing connection <database, jdbcurl2> from
ConnectionManager list 2014-08-19 23:25:13,419 DEBUG [main] -
removeConnectionFromConnectionList() 2014-08-19 23:25:13,431 DEBUG [main] - Removing connection
<com.informix.jdbc.IfxSqlConnect@196e136> from connection list 2014-08-19 23:25:13,442 DEBUG
[main] - Connection <com.informix.jdbc.IfxSqlConnect@196e136> is not closed, adding it back to
the pool entry <database,jdbcurl2> 2014-08-19 23:25:13,442 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-19 23:25:13,443 INFO [main] -
TYPETRUSTROLEMAP ::{TRUST_ROLE_DATA_SERVICE=24, TRUST_ROLE_PROVISIONING_SERVICE=23,
TRUST_ROLE_SERVICEABILITY=27, TRUST_ROLES_CALLMANAGER_TFTP=2, PHONE_TRUST_ROLES_FIREWALL=6,
ROLE_APPLICATION_SERVER=7, TRUST_ROLES_SAST=0, ROLE_SIGNALING_CALL_CONTROL=22,
TRUST_ROLES_CALLMANAGER=1, TRUST_ROLES_UNKNOWN=255, TRUST_ROLE_NETWORK_ELEMENT=25,
TRUST_ROLES_SRST=5, ROLE_CERTIFICATE_AUTHORITY=20, TRUST_ROLE_VPN=26, TRUST_ROLES_CAPF=4,
TRUST_ROLES_TFTP=3, ROLE_AUTHENTICATION_AUTHORIZATION=21} 2014-08-19 23:25:13,443 INFO [main] -
TYPESERVICEROLEMAP ::{Phone-VPN-trust=2, CallManager=3, Phone-CTL-trust=15, tomcat-trust=6,
TVS=11, ipsec-trust=8, Phone-trust=1, Phone-SAST-trust=14, tomcat=5, userlicensing-trust=16,
CAPF=9, ipsec=7, CAPF-trust=10, CallManager-trust=4, TVS-trust=12, directory-trust=13} 2014-08-
19 23:25:13,443 INFO [main] - unitRoleMap ::{Phone-VPN-trust=[TRUST_ROLE_VPN],
CallManager=[TRUST_ROLES_CALLMANAGER_TFTP, TRUST_ROLES_SAST], Phone-CTL-
trust=[ROLE_APPLICATION_SERVER], tomcat-trust=[ROLE_APPLICATION_SERVER],
TVS=[ROLE_AUTHENTICATION_AUTHORIZATION], ipsec-trust=[], Phone-trust=[ROLE_APPLICATION_SERVER],
Phone-SAST-trust=[TRUST_ROLES_SAST, TRUST_ROLES_TFTP], tomcat=[ROLE_APPLICATION_SERVER],
userlicensing-trust=[], CAPF=[TRUST_ROLES_CAPF], ipsec=[ROLE_APPLICATION_SERVER], CAPF-trust=[],
CallManager-trust=[], TVS-trust=[], directory-trust=[]} 2014-08-19 23:25:13,443 INFO [main] -
commonTrustStoreMap ::{} 2014-08-19 23:25:13,446 DEBUG [main] - Connection Initialized to
Publisher. Connection HashCode:24762452 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-19 23:25:13,446 INFO [main] - IN -- CertDBImpl.java
- getPkidOfCertificate(hash, serverName, con) - ## looking for PKID of the certificate that
should be deleted. This is done basing on the
## certificate hash 2014-08-19 23:25:13,447 DEBUG [main] - GetPKID Query :SELECT A.PKID FROM
CERTIFICATE A, CERTIFICATEHASHMAP B WHERE A.PKID=B.FKCERTIFICATE AND B.HASH =
"a9Ww/WeDmBnnHHncUCqOGCz409g=" 2014-08-19 23:25:13,447 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-19
23:25:13,447 DEBUG [main] - Try to get a connection from pool 2014-08-19 23:25:13,447 DEBUG
[main] - Getting connection from connection pool entry <database,jdbcurl2> 2014-08-19
```

23:25:13,447 DEBUG [main] - There is currently 1 connection pool entry 2014-08-19 23:25:13,447
DEBUG [main] - Adding connection <com.informix.jdbc.IfxSqlConnect@196e136> to connection list
2014-08-19 23:25:13,447 DEBUG [main] - Marking connection
<com.informix.jdbc.IfxSqlConnect@196e136> as used 2014-08-19 23:25:13,447 DEBUG [main] - Got
connection from pool 2014-08-19 23:25:13,462 DEBUG [main] - Closing the resultset. 2014-08-19
23:25:13,463 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-19
23:25:13,463 INFO [main] - OUT -- CertDBImpl.java - getPkIdOfCertificate - 2014-08-19
23:25:13,463 DEBUG [main] - Closing the connection. Connection HashCode:24762452 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-19 23:25:13,463 DEBUG
[main] - Attempting to close connection 2014-08-19 23:25:13,463 DEBUG [main] - Removing
connection <database, jdbcurl2> from ConnectionManager list 2014-08-19 23:25:13,463 DEBUG [main]
- removeConnectionFromConnectionList() 2014-08-19 23:25:13,463 DEBUG [main] - Removing
connection <com.informix.jdbc.IfxSqlConnect@196e136> from connection list 2014-08-19
23:25:13,463 DEBUG [main] - Connection <com.informix.jdbc.IfxSqlConnect@196e136> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-19 23:25:13,464 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-19 23:25:13,465 DEBUG [main] -
Connection Initialized to Publisher. Connection HashCode:12085572 --Details:Connector(NOT
CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-19 23:25:13,465 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-19
23:25:13,465 DEBUG [main] - Try to get a connection from pool 2014-08-19 23:25:13,465 DEBUG
[main] - Getting connection from connection pool entry <database,jdbcurl2> 2014-08-19
23:25:13,466 DEBUG [main] - There is currently 1 connection pool entry 2014-08-19 23:25:13,466
DEBUG [main] - Adding connection <com.informix.jdbc.IfxSqlConnect@196e136> to connection list
2014-08-19 23:25:13,466 DEBUG [main] - Marking connection
<com.informix.jdbc.IfxSqlConnect@196e136> as used 2014-08-19 23:25:13,466 DEBUG [main] - Got
connection from pool 2014-08-19 23:25:13,467 INFO [main] - IN -- CertDBImpl.java -
deleteCertFromCertSrvCertMap(con, serialNo, subjectName, serviceEnum) - **## removing association
for our certificate from CERTIFICATESERVICECERTIFICATEMAP table**
first 2014-08-19 23:25:13,467 DEBUG [main] - Delete query of CERTIFICATESERVICECERTIFICATEMAP
:DELETE FROM CERTIFICATESERVICECERTIFICATEMAP WHERE TKCERTIFICATESERVICE = "6" AND FKCERTIFICATE
= "4152b36b-002e-68ac-711d-c373fa940779" 2014-08-19 23:25:13,467 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-19
23:25:13,561 INFO [main] - OUT -- CertDBImpl.java - deleteCertFromCertSrvCertMap - 2014-08-19
23:25:13,561 INFO [main] - IN -- CertDBImpl.java - deleteCertFromCertProcessNodeMap(con,
certInfo) - **## corresponding entry is being deleted from CERTIFICATEPROCESSNODEMAP table** 2014-
08-19 23:25:13,562 DEBUG [main] - Delete query of CERTIFICATEPROCESSNODEMAP :DELETE FROM
CERTIFICATEPROCESSNODEMAP WHERE FKCERTIFICATE="4152b36b-002e-68ac-711d-c373fa940779" AND
SERVERNAME = "CUCM861" 2014-08-19 23:25:13,562 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-19
23:25:13,608 INFO [main] - OUT -- CertDBImpl.java - deleteCertFromCertProcessNodeMap - 2014-08-
19 23:25:13,609 DEBUG [main] - Certificate to be deleted UNIT: tomcat-trust :: RoleMoniker
:ROLE_APPLICATION_SERVER :: RoleEnum :7 :: ServiceEnum :6 2014-08-19 23:25:13,609 INFO [main] -
IN -- CertDBImpl.java - checkMultipleUnitForSameRole(con, roleMoniker, unit, certInfo) - 2014-
08-19 23:25:13,609 DEBUG [main] - checkMultipleUnitForSameRole : SELECT PKID,FKCERTIFICATE,
TKCERTIFICATESERVICE,NAME UNIT FROM CERTIFICATESERVICECERTIFICATEMAP,TYPECERTIFICATESERVICE
WHERE ENUM=TKCERTIFICATESERVICE AND FKCERTIFICATE = "4152b36b-002e-68ac-711d-c373fa940779" AND
NAME != "tomcat-trust" 2014-08-19 23:25:13,609 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-19
23:25:13,646 DEBUG [main] - Closing the resultset. 2014-08-19 23:25:13,654 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-19 23:25:13,654 INFO [main] - OUT --
CertDBImpl.java - checkMultipleUnitForSameRole - 2014-08-19 23:25:13,654 INFO [main] - IN --
CertDBImpl.java - deleteCertFromTypeTrustRole(con, certInfo, roleEnum) - **## and the same for
CERTIFICATETRUSTROLEMAP map** 2014-08-19 23:25:13,654 DEBUG [main] - Delete query of
CERTIFICATETRUSTROLEMAP :DELETE FROM CERTIFICATETRUSTROLEMAP WHERE TKTRUSTROLE = "7" AND
FKCERTIFICATE = "4152b36b-002e-68ac-711d-c373fa940779" 2014-08-19 23:25:13,654 DEBUG [main] -
getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-19
23:25:13,680 INFO [main] - OUT -- CertDBImpl.java - deleteCertFromTypeTrustRole - 2014-08-19
23:25:13,680 INFO [main] - IN -- CertDBImpl.java - checkMultipleCertForSrv(pkid, con) - 2014-08-
19 23:25:13,680 DEBUG [main] - checkMultipleCertForSrv : SELECT PKID,FKCERTIFICATE,
TKCERTIFICATESERVICE FROM CERTIFICATESERVICECERTIFICATEMAP WHERE FKCERTIFICATE = "4152b36b-002e-
68ac-711d-c373fa940779" 2014-08-19 23:25:13,680 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-19
23:25:13,682 DEBUG [main] - Closing the resultset. 2014-08-19 23:25:13,682 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-19 23:25:13,682 INFO [main] - OUT --

```
CertDBImpl.java - checkMultipleCertForSrv - 2014-08-19 23:25:13,682 INFO [main] - IN --
CertDBImpl.java - checkMultipleCertForRole(certInfo, con) - 2014-08-19 23:25:13,682 DEBUG [main]
- checkMultipleCertForRole : SELECT PKID,FKCERTIFICATE, TKTRUSTROLE FROM CERTIFICATETRUSTROLEMAP
WHERE FKCERTIFICATE = "4152b36b-002e-68ac-711d-c373fa940779" 2014-08-19 23:25:13,683 DEBUG
[main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true]
2014-08-19 23:25:13,684 DEBUG [main] - Closing the resultset. 2014-08-19 23:25:13,684 INFO
[main] - Connection/Statement/Resultset is closed properly. 2014-08-19 23:25:13,684 INFO [main]
- OUT -- CertDBImpl.java - checkMultipleCertForRole - 2014-08-19 23:25:13,684 INFO [main] - IN -
- CertDBImpl.java - checkMultipleCertForProcessnode(certInfo, con) - 2014-08-19 23:25:13,684
DEBUG [main] - checkMultipleCertForProcessnode : SELECT
PKID,FKCERTIFICATE,FKPROCESSNODE,SERVERNAME FROM CERTIFICATEPROCESSNODEMAP WHERE
FKCERTIFICATE='4152b36b-002e-68ac-711d-c373fa940779' 2014-08-19 23:25:13,684 DEBUG [main] -
getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-19
23:25:13,687 DEBUG [main] - Closing the resultset. 2014-08-19 23:25:13,687 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-19 23:25:13,687 INFO [main] - OUT --
CertDBImpl.java - checkMultipleCertForProcessnode - ## normally you would expect that the
certificate would be removed from CERTIFICATE table.
## This will not happen since it is possible that some of the nodes in the cluster will
## have specific tomcat-trust certificate in the trust store but some not. This is in
## compliance with the design. Since you remove the certificate only from publisher
## (by removing coresponding entries from 3 tables above) node it still be used
## by subscriber node. That is why the certificate will not be removed from CERTIFICATE
## TABLE 2014-08-19 23:25:13,687 DEBUG [main] - DELETE FLAG :: isSrvMap=false :: isRoleMap=false
:: isProcessnodeMap=true 2014-08-19 23:25:13,687 DEBUG [main] - The certificate is being used by
either different role or unit or other node. So no need to delte from certificate table. 2014-
08-19 23:25:13,690 DEBUG [main] - Connection committed for deleteCertificate.. 2014-08-19
23:25:13,690 DEBUG [main] - Closing the connection. Connection HashCode:12085572 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-19 23:25:13,690 DEBUG
[main] - Attempting to close connection 2014-08-19 23:25:13,690 DEBUG [main] - Removing
connection <database, jdbcurl2> from ConnectionManager list 2014-08-19 23:25:13,690 DEBUG [main]
- removeConnectionFromConnectionList() 2014-08-19 23:25:13,690 DEBUG [main] - Removing
connection <com.informix.jdbc.IfxSqliConnect@196e136> from connection list 2014-08-19
23:25:13,690 DEBUG [main] - Connection <com.informix.jdbc.IfxSqliConnect@196e136> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-19 23:25:13,691 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-19 23:25:13,691 DEBUG [main] -
Connection released from CertDBImpl.deleteCertificate method. 2014-08-19 23:25:13,691 INFO
[main] - OUT -- CertDBImpl.java - deleteCertificate - 2014-08-19 23:25:13,691 INFO [main] - OUT
-- CertDBAction.java - deleteCertificateInDB - 2014-08-19 23:25:13,691 INFO [main] - OUT --
DefaultCertMgr.java - deleteDERandPEM - 2014-08-19 23:25:13,691 DEBUG [main] - deleteDERandPEM:
sCertDir = /usr/local/platform/.security/tomcat/trust-certs --- sAlias = CUCM9X ## removing the
certificate from keystore on this node 2014-08-19 23:25:13,691 INFO [main] - IN --
TomcatCertMgr.java - removeFromKeyStore(..) - 2014-08-19 23:25:13,691 INFO [main] - IN --
RSACryptoEngine.java - removeFromKeyStore(keystoreFile, keystorePass, alias) - 2014-08-19
23:25:13,691 INFO [main] - IN -- RSACryptoEngine.java - loadKeyStore(keystoreFile, keystorePass)
- 2014-08-19 23:25:13,895 INFO [main] - OUT -- RSACryptoEngine.java - loadKeyStore - 2014-08-19
23:25:13,922 DEBUG [main] - Removing certificate from keystore : CUCM9X 2014-08-19 23:25:13,923
DEBUG [main] - Size of the keystore after delete is : 3 2014-08-19 23:25:13,923 INFO [main] -
OUT -- RSACryptoEngine.java - removeFromKeyStore - 2014-08-19 23:25:13,923 INFO [main] - OUT --
TomcatCertMgr.java - removeFromKeyStore - 2014-08-19 23:25:13,924 INFO [main] - trustdir
::/usr/local/platform/.security/tomcat/trust-certs 2014-08-19 23:25:13,924 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-19 23:25:13,924 DEBUG [main] - Executing command from
Util.sysExec : python /usr/local/platform/bin/c_rehash.py
/usr/local/platform/.security/tomcat/trust-certs 2014-08-19 23:25:13,940 DEBUG [Finalizer] -
Attempting to close connection 2014-08-19 23:25:13,940 DEBUG [Finalizer] - Connection already
closed or never open 2014-08-19 23:25:13,940 DEBUG [Finalizer] - Attempting to close connection
2014-08-19 23:25:13,940 DEBUG [Finalizer] - Connection already closed or never open 2014-08-19
23:25:13,962 DEBUG [Finalizer] - Attempting to close connection 2014-08-19 23:25:13,962 DEBUG
[Finalizer] - Connection already closed or never open 2014-08-19 23:25:14,203 INFO [main] - OUT
-- Util.java - sysExec - ## setting/updating the rights and the ownership of the files in trust
store (nothing will
## be changed since you just removed two cert files + description file, this is just
## standard procedure) 2014-08-19 23:25:14,203 INFO [main] - IN -- DefaultCertMgr.java -
setOwnershipAndPermissions(file) - 2014-08-19 23:25:14,203 DEBUG [main] -
setOwnershipAndPermissions : trust-certs 2014-08-19 23:25:14,203 DEBUG [main] - Changing
```

```

ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-19 23:25:14,204
INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-19 23:25:14,204 DEBUG [main] -
Executing command from Util.sysExec : /bin/chown -R certbase
/usr/local/platform/.security/tomcat/trust-certs 2014-08-19 23:25:14,224 INFO [main] - OUT --
Util.java - sysExec - 2014-08-19 23:25:14,224 DEBUG [main] - Changing group ownership of file
'/usr/local/platform/.security/tomcat/trust-certs' 2014-08-19 23:25:14,224 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-19 23:25:14,224 DEBUG [main] - Executing command from
Util.sysExec : /bin/chgrp -R ccmbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-19
23:25:14,236 INFO [main] - OUT -- Util.java - sysExec - 2014-08-19 23:25:14,237 DEBUG [main] -
Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-19 23:25:14,237
INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-19 23:25:14,237 DEBUG [main] -
Executing command from Util.sysExec : /bin/chmod -R 755
/usr/local/platform/.security/tomcat/trust-certs 2014-08-19 23:25:14,239 INFO [main] - OUT --
Util.java - sysExec - 2014-08-19 23:25:14,240 INFO [main] - OUT -- DefaultCertMgr.java -
setOwnershipAndPermissions - 2014-08-19 23:25:14,240 INFO [main] - OUT -- DefaultCertMgr.java -
deleteCert - 2014-08-19 23:25:14,240 INFO [main] - IN -- CertMgr.java - logResult(result, desc,
resultFile) - 2014-08-19 23:25:14,240 INFO [main] - CertMgmt Operation Result : null 2014-08-19
23:25:14,241 INFO [main] - OUT -- CertMgr.java - logResult - 2014-08-19 23:25:14,241 INFO [main]
- OUT -- CertMgr.java - doOp - 2014-08-19 23:25:14,241 INFO [main] - OUT -- CertMgr.java -
mainIntenal -

```

b. Para confirmar que la operación era acertada en el filesystem llano, marquemos el directorio de la confianza del tomcat:

```

[root@CUCM861 trust-certs]# ls -la
total 108
drwxr-xr-x 2 certbase ccmbase 4096 Aug 19 23:25 .
drwxr-xr-x 5 root      root    4096 Apr  4 12:47 ..
lrwxrwxrwx 1 certbase ccmbase   11 Aug 19 23:25 101f99a6.0 -> CUCM861.pem
lrwxrwxrwx 1 certbase ccmbase   42 Aug 19 23:25 7e0370f0.0 ->
VeriSign_Class_3_Secure_Server_CA_-_G3.pem
-rwxr-xr-x 1 certbase ccmbase   939 Aug  2 23:36 CUCM861.der
-rwxr-xr-x 1 certbase ccmbase    44 Aug  2 23:36 CUCM861.description
-rwxr-xr-x 1 certbase ccmbase  1326 Aug  2 23:36 CUCM861.pem
-rwxr-xr-x 1 certbase ccmbase   941 Aug  2 22:51 CUCM861s.der
-rwxr-xr-x 1 certbase ccmbase    44 Aug  2 22:51 CUCM861s.description
-rwxr-xr-x 1 certbase ccmbase  1330 Aug  2 22:51 CUCM861s.pem
lrwxrwxrwx 1 certbase ccmbase   12 Aug 19 23:25 d0aacffb.0 -> CUCM861s.pem
-rwxr-xr-x 1 certbase ccmbase  3907 Aug 19 23:25 tomcat-trust.keystore
-rwxr-xr-x 1 certbase ccmbase  1520 Apr  4 12:47 VeriSign_Class_3_Secure_Server_CA_-_G3.der
-rwxr-xr-x 1 certbase ccmbase    44 Apr  4 12:47 VeriSign_Class_3_Secure_Server_CA_-_
_G3.description
-rwxr-xr-x 1 certbase ccmbase  2114 Apr  4 12:47 VeriSign_Class_3_Secure_Server_CA_-_G3.pem

```

Como usted puede ver que se han quitado 3 archivos (CUCM9X.pem, CUCM9X.der, CUCM9X.description) y el link simbólico.

c. el servicio de CertCN en el editor y suscriptor será notificado sobre el cambio en la tabla CERTIFICATESSERVICECERTIFICATEMAP por el mecanismo de la notificación de cambio DB.

Del nodo del editor:

```

2014-08-19 23:25:13,811 INFO [Thread-5] - IN - process. changeData &colon;
2014-08-19 23:25:13,812 INFO [Thread-5] - Inside CERTIFICATESSERVICECERTIFICATEMAP - I option..
2014-08-19 23:25:13,812 DEBUG [Thread-5] - Updated Data in CERTIFICATESSERVICECERTIFICATEMAP
::<msg><type>DBL</type><table>certificateservicecertificatemap</table><tableid>44</tableid><acti
on>D</action><time>1408483513</time><old><cdrserver>2</cdrserver><cdrttime>1407158487</cdrttime><pk
kid>798ff6e1-e1d6-42e5-a4e6-30d9d7360d6d</pkid><fkcertificate>4152b36b-002e-68ac-711d-
c373fa940779</fkcertificate><tkcertificateservice>6</tkcertificateservice><ifx_replcheck>6043699
681953972226</ifx_replcheck></old></msg>
2014-08-19 23:25:18,818 INFO [Thread-5] - OUT - process.

```

Nada necesita ser hecha en el nodo del editor puesto que todo ha sido hecho por CM API. Lo mismo que usted puede observar en el certCN abre una sesión al suscriptor.

d. Borre el mismo certificado de la Tomcat-confianza en el suscriptor que el nodo casi realiza la misma operación que fue observado en el nodo del editor. La única diferencia es un último paso de quita la entrada de la tabla del CERTIFICADO. De los registros de CM (solamente la pieza que contiene el cambio):

```
2014-08-21 11:59:35,383 INFO [main] - OUT -- CertDBImpl.java - checkMultipleCertForProcessnode -
2014-08-21 11:59:35,383 DEBUG [main] - DELETE FLAG :: isSrvMap=false :: isRoleMap=false ::
isProcessnodeMap=false
2014-08-21 11:59:35,383 INFO [main] - IN -- CertDBImpl.java - deleteCertificateBySerialNo(con,
certInfo) -
```

```
## certificate is removed from CERTIFICATE table 2014-08-21 11:59:35,383 DEBUG [main] - Delete
query of CERTIFICATE :DELETE FROM CERTIFICATE WHERE PKID = "4152b36b-002e-68ac-711d-
c373fa940779" 2014-08-21 11:59:35,383 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-21
11:59:35,596 INFO [main] - OUT -- CertDBImpl.java - deleteCertificateBySerialNo - 2014-08-21
11:59:35,598 DEBUG [main] - Connection committed for deleteCertificate.. 2014-08-21 11:59:35,598
DEBUG [main] - Closing the connection. Connection HashCode:6923467 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;)
```

El certCN será notificado otra vez sobre el cambio en la tabla CERTIFICATESERVICECERTIFICATEMAP en ambos Nodos. No se hará ninguna acción por el certCN puesto que todo el trabajo fue hecho por el CM.

4.C. Certificado regenerado del tomcat en el nodo del editor

En el tercer escenario usted mira el proceso de la regeneración tomcat.pem.

usted puede regenerar en el nodo y la mirada siguiente del editor cómo este cambio propaga al segundo nodo.

Esta operación consiste en debajo de los pasos:

acción del regenerado **A.** iniciada conforme a la página CM.

los activadores antedichos **B.** generan un nuevo certificado del tomcat y lo ponen en el filesystem el nuevo certificado del tomcat **C.** es insertado en el DB (el viejo será sobregabado) por el CM. Esta información será replicada sobre la replicación DB.

el certificado viejo de la Tomcat-confianza **D.** se borra del filesystem (+remove él del keystore)

la Tomcat-confianza **E.** se importa en el filesystem (+ se verifican las entradas correspondientes DB).

el certCN **F.** en el nodo sub golpea adentro y quita la Tomcat-confianza con el pie del filesystem y del keystore.

el **G.** finalmente el nuevo se reimporta en el filesystem y readded al keystore.

a. El golpe regenerado nos muestra debajo de la salida (grupo fecha/hora 23:36):

Show ▾ Settings ▾ Security ▾ Software Upgrades ▾ Services ▾ Help ▾

Certificate Configuration

Regenerate
 Download
 Generate CSR

Status

Success: certificate regenerated. Perform a Disaster Recovery backup so the latest backup contains the regenerated certificate.

Certificate Settings

File Name tomcat.pem
 Certificate Name tomcat
 Certificate Type certs
 Certificate Group product-cpi
 Description Self-signed certificate generated by system

Certificate File Data

```

[
  Version: V3
  Serial Number: 88769680872451706773275250466208361017
  SignatureAlgorithm: SHA1withRSA (1.2.840.113549.1.1.5)
  Issuer Name: L=KRAKOW, ST=MALOPOLSKA, CN=CUCM861, OU=TAC, O=CISCO, C=PL
  Validity From: Sat Aug 02 23:36:44 CEST 2014
  To: Thu Aug 01 23:36:43 CEST 2019
  Subject Name: L=KRAKOW, ST=MALOPOLSKA, CN=CUCM861, OU=TAC, O=CISCO, C=PL
  Key: RSA (1.2.840.113549.1.1.1)
  Key value:
  3082010a0282010100b46ce5c17323962babf797a031ecda073e02163e38f79600766c439fb1dd35d7891439fd2b88c9de9514b6
  f00fa42db0511eca717a9b7996558b6d5c7d5df6b97b338fc8f3524c78c5129495f19a56dd3436549ff338061844b99c93989a5f92
  0ac76cd245ebb2f38e0f0ca1ced2df87f8dd7f37c8f16561fc7a61d64a01f218eb6a23e56c95e91747299602b58e4512f3778028fd
  260029cc5def003768969c096b39880e677a2a008eb7517379717b5d45fb4ce8b9486921ef8828b58ec8348b2b41c34420401b4a
  28e4ee32b4c76dc8d590324d6774ac68f1a4ef54a0d6c277527ec4dc0223ea1457b152bd88c1178b0cedaa9c518512d3f92bae22
  d432b0203010001
  Extensions: 3 present
  [
    Extension: KeyUsage (OID.2.5.29.15)
    Critical: false
    Usages: digitalSignature, keyEncipherment, dataEncipherment, keyAgreement, keyCertSign,
  ]
  [
    Extension: ExtKeyUsageSyntax (OID.2.5.29.37)
    Critical: false
    Usage oids: 1.3.6.1.5.5.7.3.1, 1.3.6.1.5.5.7.3.2, 1.3.6.1.5.5.7.3.5,
  ]
]
  
```

Número de serie de nuestro nuevo CERT:
 DEC: **88769680872451706773275250466208361017**
 Hex.: **42C86B2CF293630FE27BBDDC7FD02A39**

Certificado guardado en el filesystem (de la raíz):

```

[root@CUCM861 tomcat]# pwd
/usr/local/platform/.security/tomcat [root@CUCM861 tomcat]# ls -la certs total 48 drwxr-xr-x 2
certbase ccmbase 4096 Aug 2 23:36 . drwxr-xr-x 5 root root 4096 Apr 4 12:47 .. -rwxr-xr-x 1
certbase ccmbase 939 Aug 2 23:36 tomcat.der -rwxr-xr-x 1 certbase ccmbase 64 Aug 2 23:36
tomcat.description -rwxr-xr-x 1 certbase ccmbase 2598 Aug 2 23:36 tomcat.keystore -rwxr-xr-x 1
certbase ccmbase 1326 Aug 2 23:36 tomcat.pem [root@CUCM861 tomcat]# ls -la trust-certs total 108
drwxr-xr-x 2 certbase ccmbase 4096 Aug 2 23:36 . drwxr-xr-x 5 root root 4096 Apr 4 12:47 ..
lrwxrwxrwx 1 certbase ccmbase 11 Aug 2 23:36 101f99a6.0 -> CUCM861.pem lrwxrwxrwx 1 certbase
ccmbase 42 Aug 2 23:36 7e0370f0.0 -> VeriSign_Class_3_Secure_Server_CA_-_G3.pem -rwxr-xr-x 1
certbase ccmbase 939 Aug 2 23:36 CUCM861.der -rwxr-xr-x 1 certbase ccmbase 44 Aug 2 23:36
CUCM861.description -rwxr-xr-x 1 certbase ccmbase 1326 Aug 2 23:36 CUCM861.pem -rwxr-xr-x 1
certbase ccmbase 941 Aug 2 22:51 CUCM861s.der -rwxr-xr-x 1 certbase ccmbase 44 Aug 2 22:51
CUCM861s.description -rwxr-xr-x 1 certbase ccmbase 1330 Aug 2 22:51 CUCM861s.pem lrwxrwxrwx 1
  
```

```
certbase ccmbase 12 Aug 2 23:36 d0aacffb.0 -> CUCM861s.pem -rwxr-xr-x 1 certbase ccmbase 3907
Aug 2 23:36 tomcat-trust.keystore -rwxr-xr-x 1 certbase ccmbase 1520 Apr 4 12:47
VeriSign_Class_3_Secure_Server_CA_-_G3.der -rwxr-xr-x 1 certbase ccmbase 44 Apr 4 12:47
VeriSign_Class_3_Secure_Server_CA_-_G3.description -rwxr-xr-x 1 certbase ccmbase 2114 Apr 4
12:47 VeriSign_Class_3_Secure_Server_CA_-_G3.pem [root@CUCM861 tomcat]# md5sum certs/tomcat.der
a0dd8031bcd3c269844df8a3fafd476c certs/tomcat.der [root@CUCM861 tomcat]# md5sum trust-
certs/CUCM861.der a0dd8031bcd3c269844df8a3fafd476c trust-certs/CUCM861.der
```

Como usted puede ver que (basado en el tiempo de la modificación) nuestro nuevo certificado se salva en el directorio de los certs (como **tomcat.der**) y en los confianza-CERT (como **CUCM861.der**). El MD5 checksum(md5sum) prueba que éste es el mismo certificado, salvado dos veces. El link simbólico (101f99a6.0-> **CUCM861.pem**) también se pone al día.

b. La regeneración sí mismo es hecha por el CM. Hechemos una ojeada a una mirada más atenta el proceso de la regeneración:

```
2014-08-02 23:36:40,962 INFO [main] - log4j configuration successful.
2014-08-02 23:36:40,977 INFO [main] - IN -- CertMgr.java - mainInternal(args) -
2014-08-02 23:36:40,979 INFO [main] - decode

## operation invoked is "regenerate", if you would like to display the cert in OS
## Administration -> Security -> Certificate Management you would see "display" operation
## type. 2014-08-02 23:36:40,979 INFO [main] - op:regenerate ## you are going to regenerate
tomcat cert, below the details of the cert are being listed 2014-08-02 23:36:40,979 INFO [main]
- unit:tomcat 2014-08-02 23:36:40,979 INFO [main] - cert-
dir:%2Fusr%2Flocal%2Fplatform%2F.security%2Ftomcat%2Fcerts%2Ftomcat 2014-08-02 23:36:40,979 INFO
[main] - key-dir:%2Fusr%2Flocal%2Fplatform%2F.security%2Ftomcat%2Fkeys 2014-08-02 23:36:40,979
INFO [main] - logfile:%2Fvar%2Flog%2Factive%2Fplatform%2Flog%2Fcert-mgmt.log 2014-08-02
23:36:40,979 INFO [main] - resultfile:%2Fvar%2Flog%2Factive%2Fplatform%2Flog%2Fcertde-info.xml
2014-08-02 23:36:40,979 INFO [main] - type:certs 2014-08-02 23:36:41,006 INFO [main] - Parsed
information 2014-08-02 23:36:41,006 INFO [main] - OrgName: CISCO 2014-08-02 23:36:41,006 INFO
[main] - OrgUnit: TAC 2014-08-02 23:36:41,007 INFO [main] - Location: KRAKOW 2014-08-02
23:36:41,007 INFO [main] - Country: PL 2014-08-02 23:36:41,007 INFO [main] - State: MALOPOLSKA
2014-08-02 23:36:41,007 INFO [main] - Hostname: CUCM861 2014-08-02 23:36:41,007 INFO [main] -
AlternateHostname: null 2014-08-02 23:36:41,007 INFO [main] - Domain Name: 2014-08-02
23:36:41,007 INFO [main] - IPAddress: 10.48.46.29 2014-08-02 23:36:41,008 INFO [main] - In
parseXML() 2014-08-02 23:36:41,021 INFO [main] - FQDN Name retrived by InetAddress : CUCM861
2014-08-02 23:36:41,021 INFO [main] - CN: CUCM861 2014-08-02 23:36:41,022 INFO [main] - Temp
before mod is 2014-08-02 23:36:41,022 INFO [main] - Temp afer mod is TAC 2014-08-02 23:36:41,022
INFO [main] - Temp in else is TAC 2014-08-02 23:36:41,022 INFO [main] - Temp before mod is 2014-
08-02 23:36:41,022 INFO [main] - Temp afer mod is TAC 2014-08-02 23:36:41,022 INFO [main] - Temp
in else is TAC 2014-08-02 23:36:41,022 INFO [main] - OuFields are TAC 2014-08-02 23:36:41,022
DEBUG [main] - Field after encoding: TAC 2014-08-02 23:36:41,022 DEBUG [main] - Field after
encoding: CISCO 2014-08-02 23:36:41,023 DEBUG [main] - Field after encoding: KRAKOW 2014-08-02
23:36:41,023 DEBUG [main] - Field after encoding: MALOPOLSKA 2014-08-02 23:36:41,023 DEBUG
[main] - Field after encoding: PL 2014-08-02 23:36:41,026 INFO [main] - OU field is :TAC 2014-
08-02 23:36:41,027 INFO [main] - SubjectDN ::
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL 2014-08-02 23:36:41,027 INFO [main] - IN -
- CertMgr.java - getCertMgrObj(unit) - tomcat 2014-08-02 23:36:41,036 INFO [main] - OUT --
CertMgr.java - getCertMgrObj - com.cisco.cpi.certMgmt.manager.TomcatCertMgr@123b25c 2014-08-02
23:36:41,036 INFO [main] - Dummy loadProperties 2014-08-02 23:36:41,036 INFO [main] - IN --
CertMgr.java - doOp(info) - 2014-08-02 23:36:41,037 DEBUG [main] - cert filename root: 'tomcat'
2014-08-02 23:36:41,037 DEBUG [main] - cert file parent directory:
'/usr/local/platform/.security/tomcat/certs' 2014-08-02 23:36:41,037 DEBUG [main] - File created
with certParentDir 2014-08-02 23:36:41,037 DEBUG [main] - DirCheck for certParentDir succeeded
2014-08-02 23:36:41,038 DEBUG [main] - File created with keyDir 2014-08-02 23:36:41,038 DEBUG
[main] - DirCheck for keyDir succeeded ## API function for generating certificate is invoked
2014-08-02 23:36:41,039 DEBUG [main] - Calling genCertAPI() from regenCert() 2014-08-02
23:36:41,039 INFO [main] - IN -- DefaultCertMgr.java - genCertAPI(info) - 2014-08-02
23:36:41,039 INFO [main] - parsed root path: '/usr/local/platform/.security/tomcat/certs' 2014-
08-02 23:36:41,039 DEBUG [main] - cert file parent directory:
'/usr/local/platform/.security/tomcat/certs' 2014-08-02 23:36:41,040 DEBUG [main] - tomcat
Certificate keysize : 2048 2014-08-02 23:36:41,041 INFO [main] - parsed root path:
```


'/usr/local/platform/.security/tomcat/certs' 2014-08-02 23:36:41,042 DEBUG [main] -
SubjectAltName : null 2014-08-02 23:36:41,385 DEBUG [main] - Loading RSA providers explicitly...
2014-08-02 23:36:42,989 DEBUG [main] - RSA providers are loaded explicitly... 2014-08-02
23:36:42,989 DEBUG [main] - New security.provider.1=JsafeJCE 2014-08-02 23:36:42,989 DEBUG
[main] - New security.provider.2=RsaJsse 2014-08-02 23:36:42,989 DEBUG [main] - New
security.provider.3=BC 2014-08-02 23:36:42,989 DEBUG [main] - New security.provider.4=SUN 2014-
08-02 23:36:42,989 DEBUG [main] - New security.provider.5=SunRsaSign 2014-08-02 23:36:42,989
DEBUG [main] - New security.provider.6=SunJSSE 2014-08-02 23:36:42,989 DEBUG [main] - New
security.provider.7=SunJCE 2014-08-02 23:36:42,989 DEBUG [main] - New
security.provider.8=SunJGSS 2014-08-02 23:36:42,989 DEBUG [main] - New
security.provider.9=SunSASL 2014-08-02 23:36:42,989 DEBUG [main] - New
security.provider.10=XMLDSig 2014-08-02 23:36:42,990 DEBUG [main] - New
security.provider.11=SunPCSC **## at this moment generateCertificate() function is invoked which
actually returns a new ## certificate as a result** 2014-08-02 23:36:42,990 INFO [main] - IN --
RSACryptoEngine.java - generateCertificate(..) - 2014-08-02 23:36:43,003 INFO [main] -
passphrase is ::LA20PvI2sezuPqph 2014-08-02 23:36:44,657 INFO [main] - OUT --
RSACryptoEngine.java - generateCertificate - 2014-08-02 23:36:44,658 INFO [main] - IN --
RSACryptoEngine.java - loadCertificate(..) - **## certificate is written into filesystem and the
owner (user:group) and rights are being
adjusted** 2014-08-02 23:36:45,009 INFO [main] - OUT -- RSACryptoEngine.java - loadCertificate
- 2014-08-02 23:36:45,009 INFO [main] - IN -- DefaultCertMgr.java -
setOwnershipAndPermissions(file) - 2014-08-02 23:36:45,009 DEBUG [main] -
setOwnershipAndPermissions : certs 2014-08-02 23:36:45,009 DEBUG [main] - Changing ownership of
file '/usr/local/platform/.security/tomcat/certs' 2014-08-02 23:36:45,010 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,010 DEBUG [main] - Executing command from
Util.sysExec : /bin/chown -R certbase /usr/local/platform/.security/tomcat/certs 2014-08-02
23:36:45,017 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:45,017 DEBUG [main] -
Changing group ownership of file '/usr/local/platform/.security/tomcat/certs' 2014-08-02
23:36:45,018 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,018 DEBUG
[main] - Executing command from Util.sysExec : /bin/chgrp -R ccmbase
/usr/local/platform/.security/tomcat/certs 2014-08-02 23:36:45,021 INFO [main] - OUT --
Util.java - sysExec - 2014-08-02 23:36:45,021 DEBUG [main] - Changing mode of file
'/usr/local/platform/.security/tomcat/certs' 2014-08-02 23:36:45,021 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,021 DEBUG [main] - Executing command from
Util.sysExec : /bin/chmod -R 755 /usr/local/platform/.security/tomcat/certs 2014-08-02
23:36:45,046 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:45,046 INFO [main] -
OUT -- DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-02 23:36:45,046 INFO [main] -
IN -- DefaultCertMgr.java - setOwnershipAndPermissions(file) - 2014-08-02 23:36:45,046 DEBUG
[main] - setOwnershipAndPermissions : keys 2014-08-02 23:36:45,046 DEBUG [main] - Changing
ownership of file '/usr/local/platform/.security/tomcat/keys' 2014-08-02 23:36:45,046 INFO
[main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,046 DEBUG [main] - Executing
command from Util.sysExec : /bin/chown -R certbase /usr/local/platform/.security/tomcat/keys
2014-08-02 23:36:45,051 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:45,051 DEBUG
[main] - Changing group ownership of file '/usr/local/platform/.security/tomcat/keys' 2014-08-02
23:36:45,052 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,052 DEBUG
[main] - Executing command from Util.sysExec : /bin/chgrp -R ccmbase
/usr/local/platform/.security/tomcat/keys 2014-08-02 23:36:45,055 INFO [main] - OUT -- Util.java
- sysExec - 2014-08-02 23:36:45,055 DEBUG [main] - Changing mode of file
'/usr/local/platform/.security/tomcat/keys' 2014-08-02 23:36:45,055 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,055 DEBUG [main] - Executing command from
Util.sysExec : /bin/chmod -R 755 /usr/local/platform/.security/tomcat/keys 2014-08-02
23:36:45,061 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:45,061 INFO [main] -
OUT -- DefaultCertMgr.java - setOwnershipAndPermissions - **## description is generated and put
into the description file** 2014-08-02 23:36:45,061 INFO [main] - IN -- DefaultCertMgr.java -
createDescriptionFile(name, description) - 2014-08-02 23:36:45,063 INFO [main] - description is
:Self-signed certificate generated by system 2014-08-02 23:36:45,063 INFO [main] - OUT --
DefaultCertMgr.java - createDescriptionFile - 2014-08-02 23:36:45,064 INFO [main] - IN --
DefaultCertMgr.java - setOwnershipAndPermissions(file) - 2014-08-02 23:36:45,064 DEBUG [main] -
setOwnershipAndPermissions : tomcat.description 2014-08-02 23:36:45,064 DEBUG [main] - Changing
ownership of file '/usr/local/platform/.security/tomcat/certs/tomcat.description' 2014-08-02
23:36:45,064 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,064 DEBUG
[main] - Executing command from Util.sysExec : /bin/chown certbase
/usr/local/platform/.security/tomcat/certs/tomcat.description 2014-08-02 23:36:45,074 INFO
[main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:45,074 DEBUG [main] - Changing group

```

ownership of file '/usr/local/platform/.security/tomcat/certs/tomcat.description' 2014-08-02
23:36:45,074 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,075 DEBUG
[main] - Executing command from Util.sysExec : /bin/chgrp ccmbase
/usr/local/platform/.security/tomcat/certs/tomcat.description 2014-08-02 23:36:45,077 INFO
[main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:45,077 DEBUG [main] - Changing mode of
file '/usr/local/platform/.security/tomcat/certs/tomcat.description' 2014-08-02 23:36:45,077
INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,077 DEBUG [main] -
Executing command from Util.sysExec : /bin/chmod 755
/usr/local/platform/.security/tomcat/certs/tomcat.description 2014-08-02 23:36:45,083 INFO
[main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:45,083 INFO [main] - OUT --
DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-02 23:36:45,084 INFO [main] - IN --
CertUtil.java - populateCertInfo(cert, opInfo, certFilePemLocation) - 2014-08-02 23:36:45,086
INFO [main] - IN -- CertUtil.java - getHostName(..) - 2014-08-02 23:36:45,089 INFO [main] - OUT
-- CertUtil.java - getHostName - CUCM861 2014-08-02 23:36:45,092 INFO [main] - IN --
CryptoUtil.java - saveAsPEM(..) - 2014-08-02 23:36:45,098 INFO [main] - OUT -- CryptoUtil.java -
saveAsPEM - 2014-08-02 23:36:45,098 INFO [main] - OUT -- CertUtil.java - populateCertInfo -

```

c. En este momento usted tiene un nuevo certificado listo en el filesystem llano (**tomcat.pem en los certs**). CUCM861.pem en los confianza-CERT está también aquí pero no se ha agregado en esta etapa. Ésta es cubierta más adelante.

El Now es la época de poner al día nuestro certificado del tomcat en el DB para compartir el cambio con otros Nodos.

Antes de la regeneración usted podría ver el certificado del tomcat en el DB:

```

admin:run sql select c.pkid, c.serialnumber from certificate c, certificateservicecertificatemap
m WHERE m.fkcertificate = c.pkid AND m.tkcertificate = '5'
pkid serialnumber =====
533dbbfc-78ce-b46f-7d64-cd2b7c536f6d 6cf5bc855b681f658f9e7506d3ec6ea5 a6b18f66-bf72-261d-8ecd-
bfcea02add4e 68052e2e9cd6c979079e6449ff873031

```

Como usted puede ver que hay dos Certificados del tomcat en el DB (para la publicación y el SUBMARINO), el CERT viejo del tomcat tenía el número de serie = '6cf5bc855b681f658f9e7506d3ec6ea5'. PKID de nuestro CERT del tomcat es '**533dbbfc-78ce-b46f-7d64-cd2b7c536f6d**' y no cambia cuando regeneración CERT.

Archivo del registro adicional del control CM (comentarios en el snippet):

```

2014-08-02 23:36:45,099 INFO [main] - IN -- CertDBAction.java -
insertCertificateInDB(certFiletoStore, info) - 2014-08-02 23:36:45,099 INFO [main] -
DBParameters ... PKID : null CN : L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL serialNo
: 42c86b2cf293630fe27bbddc7fd02a39 hostName : CUCM861 issuerName :
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL Certificate : Not Printing huge
Certificate String.. IPV4Address : 10.48.46.29 IPV6Address : TimeToLive : NULL UNIT : tomcat
TYPE : certs ROLE : null RoleMoniker : null RoleEnum : null SERVICE : null ServiceMoniker : null
ServiceEnum : 0 2014-08-02 23:36:45,099 INFO [main] - DB - Certificate Store Plugin Handler is
:com.cisco.ccm.certmgmt.db.CertDBImpl 2014-08-02 23:36:45,159 DEBUG [main] - Connection
Initialized to localnode. Connection HashCode:17241377 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,159 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-02
23:36:45,160 DEBUG [main] - Try to get a connection from pool 2014-08-02 23:36:45,160 DEBUG
[main] - getting local connection from Pool 2014-08-02 23:36:45,162 DEBUG [main] - Getting
connection from connection pool entry <database,jdbcurl2> 2014-08-02 23:36:45,162 DEBUG [main] -
There are currently 0 connection pool entries 2014-08-02 23:36:45,166 DEBUG [main] - Checking if
connection limit has been reached for database 2014-08-02 23:36:45,167 DEBUG [main] - Connecting
to publisher so max number of connections allowed is 100 2014-08-02 23:36:45,167 DEBUG [main] -
Number of connections in use is 0 2014-08-02 23:36:45,167 DEBUG [main] - There is currently 1
connection pool entry 2014-08-02 23:36:45,168 DEBUG [main] - Number of available connections in
pool: 0 2014-08-02 23:36:45,381 DEBUG [main] - Adding connection
<com.informix.jdbc.IfxSqlConnect@1a7789c> to connection list 2014-08-02 23:36:45,382 DEBUG
[main] - Marking connection <com.informix.jdbc.IfxSqlConnect@1a7789c> as used 2014-08-02
23:36:45,382 DEBUG [main] - Got connection from pool 2014-08-02 23:36:45,389 DEBUG [main] -

```

getConnection: usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-02 23:36:45,395 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,396 DEBUG [main] - Closing the connection. Connection HashCode:17241377 --Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,396 DEBUG [main] - Attempting to close connection 2014-08-02 23:36:45,396 DEBUG [main] - Removing connection <database, jdbcurl2> from ConnectionManager list 2014-08-02 23:36:45,396 DEBUG [main] - removeConnectionFromConnectionList() 2014-08-02 23:36:45,397 DEBUG [main] - Removing connection <com.informix.jdbc.IfxSqlConnect@1a7789c> from connection list 2014-08-02 23:36:45,399 DEBUG [main] - Connection <com.informix.jdbc.IfxSqlConnect@1a7789c> is not closed, adding it back to the pool entry <database,jdbcurl2> 2014-08-02 23:36:45,399 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,399 INFO [main] - TYPETRUSTROLEMAP ::{TRUST_ROLE_DATA_SERVICE=24, TRUST_ROLE_PROVISIONING_SERVICE=23, TRUST_ROLE_SERVICEABILITY=27, TRUST_ROLES_CALLMANAGER_TFTP=2, PHONE_TRUST_ROLES_FIREWALL=6, ROLE_APPLICATION_SERVER=7, TRUST_ROLES_SAST=0, ROLE_SIGNALING_CALL_CONTROL=22, TRUST_ROLES_CALLMANAGER=1, TRUST_ROLES_UNKNOWN=255, TRUST_ROLE_NETWORK_ELEMENT=25, TRUST_ROLES_SRST=5, ROLE_CERTIFICATE_AUTHORITY=20, TRUST_ROLE_VPN=26, TRUST_ROLES_CAPF=4, TRUST_ROLES_TFTP=3, ROLE_AUTHENTICATION_AUTHORIZATION=21} 2014-08-02 23:36:45,399 INFO [main] - TYPESEVICEROLEMAP ::{Phone-VPN-trust=2, CallManager=3, Phone-CTL-trust=15, tomcat-trust=6, TVS=11, ipsec-trust=8, Phone-trust=1, Phone-SAST-trust=14, tomcat=5, userlicensing-trust=16, CAPF=9, ipsec=7, CAPF-trust=10, CallManager-trust=4, TVS-trust=12, directory-trust=13} 2014-08-02 23:36:45,399 INFO [main] - unitRoleMap ::{Phone-VPN-trust=[TRUST_ROLE_VPN], CallManager=[TRUST_ROLES_CALLMANAGER_TFTP, TRUST_ROLES_SAST], Phone-CTL-trust=[ROLE_APPLICATION_SERVER], tomcat-trust=[ROLE_APPLICATION_SERVER], TVS=[ROLE_AUTHENTICATION_AUTHORIZATION], ipsec-trust=[], Phone-trust=[ROLE_APPLICATION_SERVER], Phone-SAST-trust=[TRUST_ROLES_SAST, TRUST_ROLES_TFTP], tomcat=[ROLE_APPLICATION_SERVER], userlicensing-trust=[], CAPF=[TRUST_ROLES_CAPF], ipsec=[ROLE_APPLICATION_SERVER], CAPF-trust=[], CallManager-trust=[], TVS-trust=[], directory-trust=[]} 2014-08-02 23:36:45,400 INFO [main] - commonTrustStoreMap ::{} 2014-08-02 23:36:45,403 DEBUG [main] - Connection Initialized to Publisher. Connection HashCode:5823789 --Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,403 INFO [main] - IN -- CertDBImpl.java - insertCertificate(certInfo, con) - 2014-08-02 23:36:45,404 DEBUG [main] - getConnection: usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02 23:36:45,404 DEBUG [main] - Try to get a connection from pool 2014-08-02 23:36:45,404 DEBUG [main] - Getting connection from connection pool entry <database,jdbcurl2> 2014-08-02 23:36:45,404 DEBUG [main] - There is currently 1 connection pool entry 2014-08-02 23:36:45,404 DEBUG [main] - Adding connection <com.informix.jdbc.IfxSqlConnect@1a7789c> to connection list 2014-08-02 23:36:45,404 DEBUG [main] - Marking connection <com.informix.jdbc.IfxSqlConnect@1a7789c> as used 2014-08-02 23:36:45,404 DEBUG [main] - Got connection from pool 2014-08-02 23:36:45,406 INFO [main] - IN -- CertDBImpl.java - populateRoleEnumServiceEnum(certInfo) - **## cert type is tomcat, you can see serviceEnum = 5** 2014-08-02 23:36:45,407 INFO [main] - UNIT :: tomcat 2014-08-02 23:36:45,407 INFO [main] - role :: [ROLE_APPLICATION_SERVER] 2014-08-02 23:36:45,407 INFO [main] - roleEnum :: [7] 2014-08-02 23:36:45,407 INFO [main] - service :: null 2014-08-02 23:36:45,407 INFO [main] - serviceEnum :: 5 2014-08-02 23:36:45,407 INFO [main] - OUT -- CertDBImpl.java - populateRoleEnumServiceEnum - 2014-08-02 23:36:45,409 INFO [main] - IN -- CertDBUtil.java - getProcessNodeId(con, hostName, ipAddress, fqdn) - 2014-08-02 23:36:45,409 INFO [main] - getProcessNodeId Query :SELECT PKID,NAME FROM PROCESSNODE WHERE UPPER(NAME)=UPPER("CUCM861") OR UPPER(NAME)=UPPER("10.48.46.29") OR UPPER(NAME)=UPPER("CUCM861") 2014-08-02 23:36:45,409 DEBUG [main] - getConnection: usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02 23:36:45,418 INFO [main] - ProcessNodeId:13f4b0d9-0bae-429a-a86e-625336a35bb6 2014-08-02 23:36:45,418 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,418 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,418 INFO [main] - OUT -- CertDBUtil.java - getProcessNodeId - 2014-08-02 23:36:45,418 INFO [main] - IN -- CertDBImpl.java - getSelfSignedCertificate(certInfo, con) - 2014-08-02 23:36:45,418 DEBUG [main] - getSelfSignedCertificate Query :SELECT A.PKID,SERVERNAME,SUBJECTNAME,ISSUENAME,SERIALNUMBER,IPV4ADDRESS,IPV6ADDRESS,TIMETOLIVE, B.HASH FROM CERTIFICATE A, CERTIFICATEHASHMAP B, CERTIFICATESERVICECERTIFICATEMAP C WHERE A.PKID=B.FKCERTIFICATE AND A.PKID = C.FKCERTIFICATE AND C.TKCERTIFICATESERVICE = "5" AND A.SERVERNAME = "CUCM861" 2014-08-02 23:36:45,418 DEBUG [main] - getConnection: usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02 23:36:45,424 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,424 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,425 INFO [main] - OUT -- CertDBImpl.java - getSelfSignedCertificate - 2014-08-02 23:36:45,425 INFO [main] - IN -- CertDBImpl.java - getPkidOfCertificate(hash, serverName, con) - **## looking for PKID of our cert**

2014-08-02 23:36:45,425 DEBUG [main] - GetPKID Query :SELECT A.PKID FROM CERTIFICATE A, CERTIFICATEHASHMAP B WHERE A.PKID=B.FKCERTIFICATE AND B.HASH = "/hSVsEZT+yZeaxE+K0EM02n1Pgk="

2014-08-02 23:36:45,425 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02 23:36:45,431 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,435 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,435 INFO [main] - OUT -- CertDBImpl.java - getPkidOfCertificate - 2014-08-02 23:36:45,436 DEBUG [main] - Own certificate is regenerated. newCert is not available in DB. 2014-08-02 23:36:45,436 DEBUG [main] - INSERT FLAG :: isCertUpdate=true :: doNothing=false **## finally certificate is inserted. In fact this is an update since The same is used**

PKID of the tomcat cert as it was prior regeneration 2014-08-02 23:36:45,436 DEBUG [main] - INSERT/UPDATE Query of CERTIFICATE : UPDATE CERTIFICATE SET SERVERNAME="CUCM861", SUBJECTNAME="L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL", ISSUERNAM="L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL", SERIALNUMBER="42c86b2cf293630fe27bbddc7fd02a39", CERTIFICATE="-----BEGIN CERTIFICATE-----
MIIDpzCCAo+gAwIBAgIQQshrLPKTYw/ie73cf9AqOTANBgkqhkiG9w0BAQUFADBjMQswCQYDVQQGEWJlUEChMFQ01TQ08xDDAKBgNVBAsTA1RBQzEQMA4GA1UEAxMHQ01VDTTg2MTETMBEGA1UECBMTUFMT1BPTFNlQTEPMA0GA1UEBxMGS1JB S09XMB4XDTE0MDgwMjIxMzY0NFoXDTE5MDgwMTIxMzY0M1owYzELMAkGA1UEBhMCUEWxDjAMBgNVBAoTBUNJUU0NPMQwwCgYDVQQLEWNUQUxMxEDAOBgNVBAMTB0NVQ004NjExEzARBgNVBAGTCK1BTE9QT0xTS0ExDzANBgNVBAcTBktSQUtPVzCCASlwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBALRs5cFzI5Yrq/eXoDHS2gc+AhY+OPeW AHZsQ5+x3TXXiRQ5/SuIyd6VFLbwD6QtsFEeynF6m3mWVYttXH1d9r17M4/I81JMeMUS1JXxmlbNDZUn/M4BhhEuZyTmJpFkgrHbNJF67Lzjg8Moc7S34f43X83yPF1Yfx6YdZKafIY62oj5WyV6RdHKZYCY5FEvN3eAKP0mACnMXe8AN2iWnAlrOYgOZ3oqAI63UXN5cXtdRftM6LlIaShviCi1jsg0iytBw0QgQBtKKOTuMrTHbcjVkJDNZ3SsaPGk71Sg1sJ3Un7E3AIj6hRXsVK9iMEXiwztqpxRhRLT+SuuItQysCAwEAAANXMFUwCwYDVR0PBAQDAGK8MCCGAlUdJQQGMB4GCCsGAQUFBwMBBggrBgEFBQcDAGYIKwYBBQUHAWUwHQYDVR0OBBYEFPOxKMSHC4gnQQgIgLAgxQjIH0srMA0GCSqGSIb3DQEBBQUAA4IBAQBvSfWzSC1nLTYKuOPs4RtOUQXfuUMHLhI74QoBJS98A8a8w1KgM8ilXukBg6VZ37xgYm2uaLTCunXeG/EiN9nkC+kgJ9y78Q4jmRh2//wqdvAkI+RR9745RRntD4xs3sv3uGSljEGd1eCC76NUWpQAWezz0A1AEAE/EW07h1yZVRghuDhq5vLVNrh0gQkjve56/K7E9E83PqV09JTAGRvjL9/uRpeooucACJYI9WPyXMYa6wsIpCqFRLocYIUGCy9ufrof1vptawOJQGZ9Z9kW2SpanRD2LJunqgY8Vbveq/7Z2xndm8j36Lyn4IrESrk7Umpr27fn8KktYvMaD -----END CERTIFICATE-----", IPV4ADDRESS="10.48.46.29", IPV6ADDRESS="", TIMETOLIVE=NULL WHERE PKID = "533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" 2014-08-02 23:36:45,436 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02 23:36:45,447 INFO [main] - IN -- CertDBImpl.java - updateCertificateHashMap(certInfo, con) - 2014-08-02 23:36:45,448 DEBUG [main] - Update query of CERTIFICATEHASHMAP :UPDATE CERTIFICATEHASHMAP SET HASH = "/hSVsEZT+yZeaxE+K0EM02n1Pgk=" WHERE FKCERTIFICATE = "533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" 2014-08-02 23:36:45,448 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02 23:36:45,452 INFO [main] - OUT -- CertDBImpl.java - updateCertificateHashMap - 2014-08-02 23:36:45,452 INFO [main] - IN -- CertDBImpl.java - insertCertSrvCertMap(certInfo, con) - 2014-08-02 23:36:45,452 INFO [main] - IN -- CertDBImpl.java - checkExistingCertificateServiceMapping(certInfo, serviceEnum, con) - 2014-08-02 23:36:45,452 DEBUG [main] - checkExistingTrustCertificateForService Query :SELECT PKID,FKCERTIFICATE, TKCERTIFICATESERVICE FROM CERTIFICATESERVICECERTIFICATEMAP WHERE FKCERTIFICATE = "533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" AND TKCERTIFICATESERVICE= "5" 2014-08-02 23:36:45,453 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02 23:36:45,455 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,456 INFO [main] - Connection/Statement/Resultset is closed properly. **## CM verifies if there is a proper mapping for the new cert in the**

CERTIFICATESERVICECERTIFICATEMAP table. There is so no need for update 2014-08-02 23:36:45,456 INFO [main] - OUT -- CertDBImpl.java - checkExistingCertificateServiceMapping - 2014-08-02 23:36:45,456 DEBUG [main] - Certificate to be inserted in CERTIFICATESERVICECERTIFICATEMAP table :tomcat ::PKID :533dbbfc-78ce-b46f-7d64-cd2b7c536f6d ::toInsertInCertSrvMap:false 2014-08-02 23:36:45,456 DEBUG [main] - CertService mapping entry already exists.. 2014-08-02 23:36:45,456 INFO [main] - OUT -- CertDBImpl.java - insertCertSrvCertMap - 2014-08-02 23:36:45,456 INFO [main] - IN -- CertDBImpl.java - insertCertTrustRoleMap(certInfo, log, con) - 2014-08-02 23:36:45,456 INFO [main] - IN -- CertDBImpl.java - checkExistingCertificateRoleMapping(certInfo, roleEnum, con) - **## the same check for CERTIFICATESTRUSTROLEMAP table. It is there, nothing to update.** 2014-08-02 23:36:45,456

```

DEBUG [main] - checkExistingTrustCertificateForRole Query :SELECT PKID,FKCERTIFICATE,
TKTRUSTROLE FROM CERTIFICATETRUSTROLEMAP WHERE FKCERTIFICATE = "533dbbfc-78ce-b46f-7d64-
cd2b7c536f6d" AND TKTRUSTROLE= "7" 2014-08-02 23:36:45,456 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02
23:36:45,459 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,459 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,459 INFO [main] - OUT --
CertDBImpl.java - checkExistingCertificateRoleMapping - 2014-08-02 23:36:45,459 DEBUG [main] -
Certificate to be inserted in CERTIFICATETRUSTROLEMAP table :tomcat ::PKID :533dbbfc-78ce-b46f-
7d64-cd2b7c536f6d ::toInsertInCertSrvMap:false 2014-08-02 23:36:45,459 DEBUG [main] - CertRole
mapping entry already exists.. 2014-08-02 23:36:45,459 INFO [main] - OUT -- CertDBImpl.java -
insertCertTrustRoleMap - 2014-08-02 23:36:45,459 INFO [main] - IN -- CertDBImpl.java -
insertCertProcessNodeMap(certInfo, con) - 2014-08-02 23:36:45,459 INFO [main] - IN --
CertDBImpl.java - checkExistingCertProcessNodeMapping(certInfo, con) - 2014-08-02 23:36:45,459
DEBUG [main] - checkExistingCertProcessNodeMapping Query :SELECT PKID,FKCERTIFICATE,
FKPROCESSNODE,SERVERNAME FROM CERTIFICATEPROCESSNODEMAP WHERE FKCERTIFICATE="533dbbfc-78ce-b46f-
7d64-cd2b7c536f6d" AND FKPROCESSNODE="13f4b0d9-0bae-429a-a86e-625336a35bb6" AND
SERVERNAME="CUCM861" 2014-08-02 23:36:45,460 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[1]connectToPubByDefault[true] 2014-08-02
23:36:45,462 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,463 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,463 INFO [main] - OUT --
CertDBImpl.java - checkExistingCertProcessNodeMapping - 2014-08-02 23:36:45,463 DEBUG [main] -
CertProcessNode mapping entry already exists.. 2014-08-02 23:36:45,463 INFO [main] - OUT --
CertDBImpl.java - insertCertProcessNodeMap - 2014-08-02 23:36:45,467 DEBUG [main] - Connection
committed for insertCertificate.. 2014-08-02 23:36:45,467 DEBUG [main] - Insertion of
Certificate in DB is Successful. 2014-08-02 23:36:45,467 INFO [main] - OUT -- CertDBImpl.java -
insertCertificate - 2014-08-02 23:36:45,467 DEBUG [main] - Closing the connection. Connection
HashCode:5823789 --Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02
23:36:45,468 DEBUG [main] - Attempting to close connection 2014-08-02 23:36:45,468 DEBUG [main]
- Removing connection <database, jdbcurl2> from ConnectionManager list 2014-08-02 23:36:45,468
DEBUG [main] - removeConnectionFromConnectionList() 2014-08-02 23:36:45,468 DEBUG [main] -
Removing connection <com.informix.jdbc.IfxSqlConnect@1a7789c> from connection list 2014-08-02
23:36:45,468 DEBUG [main] - Connection <com.informix.jdbc.IfxSqlConnect@1a7789c> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-02 23:36:45,468 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,468 INFO [main] - DB -
Generate Certificate operation in DB is successful 2014-08-02 23:36:45,468 INFO [main] - OUT --
CertDBAction.java - insertCertificateInDB - 2014-08-02 23:36:45,468 INFO [main] - OUT --
DefaultCertMgr.java - genCertAPI - Self-signed certificate generated by system. 2014-08-02
23:36:45,469 INFO [main] - IN -- CertUtil.java - sendAlarm(alarmName, alarmParamName,
alarmParamValue) - 2014-08-02 23:36:45,469 DEBUG [main] - Sending alarm for :: TomcatCertRegen
:: Message :: The tomcat certificate is regenerated 2014-08-02 23:36:45,471 DEBUG [main] -
AlarmSender: getInstance

```

d. Como usted recuerda usted podría ver el mismo CERT en el filesystem que el tomcat y la Tomcat-confianza. Hasta ahora solamente el tomcat uno se ha puesto al día correctamente en el filesystem. Sigamos el registro adicional CM para ver cómo la Tomcat-confianza se pone al día en este nodo:

```

2014-08-02 23:36:45,518 INFO [main] - OUT -- CertUtil.java - sendAlarm -
2014-08-02 23:36:45,518 INFO [main] - IN -- TomcatCertMgr.java - copyToTomcatTrustStore(info) -
2014-08-02 23:36:45,518 INFO [main] - IN -- TomcatCertMgr.java -
deleteCertFromTomcatTrustStore(info) -
2014-08-02 23:36:45,519 INFO [main] - IN -- RSACryptoEngine.java - loadCertificate(..) -
2014-08-02 23:36:45,520 INFO [main] - OUT -- RSACryptoEngine.java - loadCertificate -
2014-08-02 23:36:45,520 INFO [main] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) -
2014-08-02 23:36:45,520 DEBUG [main] - parseCNfromDN( certSubjDN:
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL')
2014-08-02 23:36:45,520 DEBUG [main] - Truncating CN 'CUCM861,OU=TAC,O=CISCO,C=PL' -> 'CUCM861'
2014-08-02 23:36:45,520 INFO [main] - OUT -- CertUtil.java - parseCNfromDN -
2014-08-02 23:36:45,520 DEBUG [main] - Parsed CN 'CUCM861' from DN
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL'

```

```

## first you need to delete old tomcat-trust certificate on the filesystem 2014-08-02
23:36:45,521 DEBUG [main] - Old Cert to be deleted during import :
/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem 2014-08-02 23:36:45,521 INFO [main]

```

```
- IN -- DefaultCertMgr.java - deleteCert(info) - decode: true op: delete unit: tomcat-trust
keystoreUnit:tomcat-trust logFile: /var/log/active/platform/log/cert-mgmt.log resultFile:
/var/log/active/platform/log/certde-info.xml keyDir: /usr/local/platform/.security/tomcat/keys
certDir: /usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem srcCert: null type: trust-
certs rootCACert: null trustDir: null DNAME:
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL description:null isDBInsert:true 2014-08-
02 23:36:45,521 INFO [main] - parsed filename: 'CUCM861.pem' 2014-08-02 23:36:45,521 DEBUG
[main] - filename: 'CUCM861.pem' 2014-08-02 23:36:45,521 DEBUG [main] - fileRoot: 'CUCM861'
2014-08-02 23:36:45,521 INFO [main] - IN -- DefaultCertMgr.java - deleteDERandPEM(filenameRoot,
parentDir, info) - 2014-08-02 23:36:45,521 DEBUG [main] -
ParentDir:/usr/local/platform/.security/tomcat/trust-certsFileName.(DER/PEM):CUCM861 2014-08-02
23:36:45,521 INFO [main] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-02
23:36:45,538 INFO [main] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-02
23:36:45,539 INFO [main] - IN -- CertUtil.java - populateCertInfo(cert, opInfo,
certFilePemLocation) - 2014-08-02 23:36:45,539 INFO [main] - IN -- CertUtil.java -
getHostName(..) - 2014-08-02 23:36:45,539 INFO [main] - OUT -- CertUtil.java - getHostName -
CUCM861 2014-08-02 23:36:45,540 INFO [main] - IN -- CryptoUtil.java - saveAsPEM(..) - 2014-08-02
23:36:45,540 INFO [main] - OUT -- CryptoUtil.java - saveAsPEM - 2014-08-02 23:36:45,540 INFO
[main] - OUT -- CertUtil.java - populateCertInfo - ## the same should be done on the DB level.
CM consider deleting the the association
## for this tomcat-trust cert from corresponding tables: CERTIFICATESERVICECERTIFICATEMAP,
## CERTIFICATEPROCESSNODEMAP and CERTIFICATESTRUSTROLEMAP. As you see this does not
## happen since the certificate itself has not been deleted so FKCERTIFICATE in those
## tables become "null for this certificate" (cert still exists, has been ## updated only) 2014-
2014-08-02 23:36:45,540 INFO [main] - IN -- CertDBAction.java - deleteCertificateInDB(certInfo) -
2014-08-02 23:36:45,540 INFO [main] - DBParameters ... PKID : null CN :
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL serialNo :
6cf5bc855b681f658f9e7506d3ec6ea5 hostName : CUCM861 issuerName :
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL Certificate : Not Printing huge
Certificate String.. IPV4Address : 10.48.46.29 IPV6Address : TimeToLive : NULL UNIT : tomcat-
trust TYPE : trust-certs ROLE : null RoleMoniker : null RoleEnum :null SERVICE : null
ServiceMoniker : null ServiceEnum :0 2014-08-02 23:36:45,540 INFO [main] - DB - Certifciate
Store Plugin Handler is :com.cisco.ccm.certmgmt.db.CertDBImpl 2014-08-02 23:36:45,541 INFO
[main] - IN -- CertDBImpl.java - deleteCertificate(certInfo) - 2014-08-02 23:36:45,542 DEBUG
[main] - Connection Initialized to Publisher. Connection HashCode:12578138 --
Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,542
INFO [main] - IN -- CertDBImpl.java - getPkidOfCertificate(hash, serverName, con) - 2014-08-02
23:36:45,542 DEBUG [main] - GetPKID Query :SELECT A.PKID FROM CERTIFICATE A, CERTIFICATEHASHMAP
B WHERE A.PKID=B.FKCERTIFICATE AND B.HASH = "/XB5QwYXgqrUTFZ2CDgT7BkSxNs=" 2014-08-02
23:36:45,542 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02
23:36:45,542 DEBUG [main] - Try to get a connection from pool 2014-08-02 23:36:45,542 DEBUG
[main] - Getting connection from connection pool entry <database,jdbcurl> 2014-08-02
23:36:45,542 DEBUG [main] - There is currently 1 connection pool entry 2014-08-02 23:36:45,543
DEBUG [main] - Checking if connection limit has been reached for database 2014-08-02
23:36:45,543 DEBUG [main] - Connecting to publisher so max number of connections allowed is 100
2014-08-02 23:36:45,543 DEBUG [main] - Number of connections in use is 0 2014-08-02 23:36:45,543
DEBUG [main] - There are currently 2 connection pool entries 2014-08-02 23:36:45,544 DEBUG
[main] - Number of available connections in pool: 0 2014-08-02 23:36:45,590 DEBUG [main] -
Adding connection <com.informix.jdbc.IfxSqlConnect@77eb97> to connection list 2014-08-02
23:36:45,590 DEBUG [main] - Marking connection <com.informix.jdbc.IfxSqlConnect@77eb97> as used
2014-08-02 23:36:45,590 DEBUG [main] - Got connection from pool 2014-08-02 23:36:45,596 DEBUG
[main] - Closing the resultset. 2014-08-02 23:36:45,599 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,599 INFO [main] - OUT --
CertDBImpl.java - getPkidOfCertificate - 2014-08-02 23:36:45,599 DEBUG [main] - Closing the
connection. Connection HashCode:12578138 --Details:Connector(CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,600 DEBUG [main] - Attempting to close
connection 2014-08-02 23:36:45,600 DEBUG [main] - Removing connection <database, jdbcurl> from
ConnectionManager list 2014-08-02 23:36:45,600 DEBUG [main] -
removeConnectionFromConnectionList() 2014-08-02 23:36:45,600 DEBUG [main] - Removing connection
<com.informix.jdbc.IfxSqlConnect@77eb97> from connection list 2014-08-02 23:36:45,600 DEBUG
[main] - Connection <com.informix.jdbc.IfxSqlConnect@77eb97> is not closed, adding it back to
the pool entry <database,jdbcurl> 2014-08-02 23:36:45,600 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,602 DEBUG [main] -
```

Connection Initialized to Publisher. Connection HashCode:17578504 --Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,602 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,602 DEBUG [main] - Try to get a connection from pool 2014-08-02 23:36:45,602 DEBUG [main] - Getting connection from connection pool entry <database,jdbcurl> 2014-08-02 23:36:45,602 DEBUG [main] - There are currently 2 connection pool entries 2014-08-02 23:36:45,602 DEBUG [main] - Adding connection <com.informix.jdbc.IfxSqlConnect@77eb97> to connection list 2014-08-02 23:36:45,603 DEBUG [main] - Marking connection <com.informix.jdbc.IfxSqlConnect@77eb97> as used 2014-08-02 23:36:45,603 DEBUG [main] - Got connection from pool 2014-08-02 23:36:45,604 INFO [main] - IN -- CertDBImpl.java - deleteCertFromCertSrvCertMap(con, serialNo, subjectName, serviceEnum) - **## you can see it here** ... 2014-08-02 23:36:45,605 DEBUG [main] - Delete query of CERTIFICATESERVICECERTIFICATEMAP :DELETE FROM CERTIFICATESERVICECERTIFICATEMAP WHERE TKCERTIFICATESERVICE = "6" AND FKCERTIFICATE = "null" 2014-08-02 23:36:45,605 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,618 INFO [main] - OUT -- CertDBImpl.java - deleteCertFromCertSrvCertMap - 2014-08-02 23:36:45,618 INFO [main] - IN -- CertDBImpl.java - deleteCertFromCertProcessNodeMap(con, certInfo) - **## here** ... 2014-08-02 23:36:45,619 DEBUG [main] - Delete query of CERTIFICATEPROCESSNODEMAP :DELETE FROM CERTIFICATEPROCESSNODEMAP WHERE FKCERTIFICATE="null" AND SERVERNAME = "CUCM861" 2014-08-02 23:36:45,619 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,624 INFO [main] - OUT -- CertDBImpl.java - deleteCertFromCertProcessNodeMap - 2014-08-02 23:36:45,624 DEBUG [main] - Certificate to be deleted UNIT: tomcat-trust :: RoleMoniker :ROLE_APPLICATION_SERVER :: RoleEnum :7 :: ServiceEnum :6 2014-08-02 23:36:45,624 INFO [main] - IN -- CertDBImpl.java - checkMultipleUnitForSameRole(con, roleMoniker, unit, certInfo) - 2014-08-02 23:36:45,624 DEBUG [main] - checkMultipleUnitForSameRole : SELECT PKID,FKCERTIFICATE, TKCERTIFICATESERVICE,NAME UNIT FROM CERTIFICATESERVICECERTIFICATEMAP,TYPECERTIFICATESERVICE WHERE ENUM=TKCERTIFICATESERVICE AND FKCERTIFICATE ="null" AND NAME != "tomcat-trust" 2014-08-02 23:36:45,624 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,649 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,649 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,649 INFO [main] - OUT -- CertDBImpl.java - checkMultipleUnitForSameRole - 2014-08-02 23:36:45,649 INFO [main] - IN -- CertDBImpl.java - deleteCertFromTypeTrustRole(con, certInfo, roleEnum) - **## and here** 2014-08-02 23:36:45,649 DEBUG [main] - Delete query of CERTIFICATETRUSTROLEMAP :DELETE FROM CERTIFICATETRUSTROLEMAP WHERE TKTRUSTROLE = "7" AND FKCERTIFICATE = "null" 2014-08-02 23:36:45,649 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,652 INFO [main] - OUT -- CertDBImpl.java - deleteCertFromTypeTrustRole - 2014-08-02 23:36:45,653 INFO [main] - IN -- CertDBImpl.java - checkMultipleCertForSrv(pkid, con) - 2014-08-02 23:36:45,653 DEBUG [main] - checkMultipleCertForSrv : SELECT PKID,FKCERTIFICATE, TKCERTIFICATESERVICE FROM CERTIFICATESERVICECERTIFICATEMAP WHERE FKCERTIFICATE = "null" 2014-08-02 23:36:45,653 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,655 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,655 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,655 INFO [main] - OUT -- CertDBImpl.java - checkMultipleCertForSrv - 2014-08-02 23:36:45,655 INFO [main] - IN -- CertDBImpl.java - checkMultipleCertForRole(certInfo, con) - 2014-08-02 23:36:45,655 DEBUG [main] - checkMultipleCertForRole : SELECT PKID,FKCERTIFICATE, TKTRUSTROLE FROM CERTIFICATETRUSTROLEMAP WHERE FKCERTIFICATE = "null" 2014-08-02 23:36:45,655 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,657 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,657 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,657 INFO [main] - OUT -- CertDBImpl.java - checkMultipleCertForRole - 2014-08-02 23:36:45,657 INFO [main] - IN -- CertDBImpl.java - checkMultipleCertForProcessnode(certInfo, con) - 2014-08-02 23:36:45,657 DEBUG [main] - checkMultipleCertForProcessnode : SELECT PKID,FKCERTIFICATE,FKPROCESSNODE,SERVERNAME FROM CERTIFICATEPROCESSNODEMAP WHERE FKCERTIFICATE='null' 2014-08-02 23:36:45,658 DEBUG [main] - getConn: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:45,660 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:45,661 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,661 INFO [main] - OUT -- CertDBImpl.java - checkMultipleCertForProcessnode - 2014-08-02 23:36:45,661 DEBUG [main] - DELETE FLAG :: isSrvMap=false :: isRoleMap=false :: isProcessnodeMap=false 2014-08-02 23:36:45,661 INFO [main] - IN -- CertDBImpl.java - deleteCertificateBySerialNo(con, certInfo) - **## finally it tries to remove all certificates from CERTIFICATE table with null PKID.**

```

## Nothing will be deleted of course. 2014-08-02 23:36:45,661 DEBUG [main] - Delete query of
CERTIFICATE :DELETE FROM CERTIFICATE WHERE PKID = "null" 2014-08-02 23:36:45,661 DEBUG [main] -
getConnection: usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02
23:36:45,664 INFO [main] - OUT -- CertDBImpl.java - deleteCertificateBySerialNo - 2014-08-02
23:36:45,664 DEBUG [main] - Connection committed for deleteCertificate.. 2014-08-02 23:36:45,664
DEBUG [main] - Closing the connection. Connection HashCode:17578504 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,664 DEBUG
[main] - Attempting to close connection 2014-08-02 23:36:45,665 DEBUG [main] - Removing
connection <database, jdbcurl> from ConnectionManager list 2014-08-02 23:36:45,665 DEBUG [main]
- removeConnectionFromConnectionList() 2014-08-02 23:36:45,665 DEBUG [main] - Removing
connection <com.informix.jdbc.IfxSqlConnect@77eb97> from connection list 2014-08-02
23:36:45,665 DEBUG [main] - Connection <com.informix.jdbc.IfxSqlConnect@77eb97> is not closed,
adding it back to the pool entry <database,jdbcurl> 2014-08-02 23:36:45,665 INFO [main] -
Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,665 DEBUG [main] -
Connection released from CertDBImpl.deleteCertificate method. 2014-08-02 23:36:45,665 INFO
[main] - OUT -- CertDBImpl.java - deleteCertificate - 2014-08-02 23:36:45,665 INFO [main] - OUT
-- CertDBAction.java - deleteCertificateInDB - 2014-08-02 23:36:45,665 INFO [main] - OUT --
DefaultCertMgr.java - deleteDERandPEM - 2014-08-02 23:36:45,665 DEBUG [main] - deleteDERandPEM:
sCertDir = /usr/local/platform/.security/tomcat/trust-certs --- sAlias = CUCM861 2014-08-02
23:36:45,665 INFO [main] - IN -- TomcatCertMgr.java - removeFromKeyStore(..) - 2014-08-02
23:36:45,666 INFO [main] - IN -- RSACryptoEngine.java - removeFromKeyStore(keystoreFile,
keystorePass, alias) - 2014-08-02 23:36:45,666 INFO [main] - IN -- RSACryptoEngine.java -
loadKeyStore(keystoreFile, keystorePass) - 2014-08-02 23:36:45,846 INFO [main] - OUT --
RSACryptoEngine.java - loadKeyStore - ## old tomcat-trust certificate is being removed from key
store 2014-08-02 23:36:45,880 DEBUG [main] - Removing certificate from keystore : CUCM861 2014-
08-02 23:36:45,880 DEBUG [main] - Size of the keystore after delete is : 2 2014-08-02
23:36:45,880 INFO [main] - OUT -- RSACryptoEngine.java - removeFromKeyStore - 2014-08-02
23:36:45,880 INFO [main] - OUT -- TomcatCertMgr.java - removeFromKeyStore - 2014-08-02
23:36:45,882 INFO [main] - trustdir ::/usr/local/platform/.security/tomcat/trust-certs 2014-08-
02 23:36:45,883 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,883
DEBUG [main] - Executing command from Util.sysExec : python /usr/local/platform/bin/c_rehash.py
/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:45,993 INFO [main] - OUT --
Util.java - sysExec - 2014-08-02 23:36:45,995 INFO [main] - IN -- DefaultCertMgr.java -
setOwnershipAndPermissions(file) - 2014-08-02 23:36:45,995 DEBUG [main] -
setOwnershipAndPermissions : trust-certs 2014-08-02 23:36:45,995 DEBUG [main] - Changing
ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:45,995
INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:45,996 DEBUG [main] -
Executing command from Util.sysExec : /bin/chown -R certbase
/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,005 INFO [main] - OUT --
Util.java - sysExec - 2014-08-02 23:36:46,010 DEBUG [main] - Changing group ownership of file
'/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,010 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,010 DEBUG [main] - Executing command from
Util.sysExec : /bin/chgrp -R ccmbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-02
23:36:46,020 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,020 DEBUG [main] -
Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,020
INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,020 DEBUG [main] -
Executing command from Util.sysExec : /bin/chmod -R 755
/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,027 INFO [main] - OUT --
Util.java - sysExec - 2014-08-02 23:36:46,027 INFO [main] - OUT -- DefaultCertMgr.java -
setOwnershipAndPermissions - 2014-08-02 23:36:46,027 INFO [main] - OUT -- DefaultCertMgr.java -
deleteCert - 2014-08-02 23:36:46,027 INFO [main] - OUT -- TomcatCertMgr.java -
deleteCertFromTomcatTrustStore -

```

e. En este momento usted no tiene CERT de la Tomcat-confianza en el filesystem. El CM lo creará y lo reimportará al almacén de la confianza:

```

2014-08-02 23:36:46,027 INFO [main] - IN -- TomcatCertMgr.java -
importCertToTomcatTrustStore(info) -
2014-08-02 23:36:46,028 INFO [main] - IN -- DefaultCertMgr.java - importCert(info) -
decode:      true
op:          import
unit:        tomcat-trust
keystoreUnit:tomcat-trust
logFile:     /var/log/active/platform/log/cert-mgmt.log

```


resultFile: /var/log/active/platform/log/certde-info.xml
keyDir: /usr/local/platform/.security/tomcat/keys
certDir: /usr/local/platform/.security/tomcat/trust-certs
srcCert: /usr/local/platform/.security/tomcat/certs/tomcat.pem
type: trust-certs
rootCACert: null
trustDir: null
DNNAME: CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL
description:Trust Certificate
isDBInsert:true

```
2014-08-02 23:36:46,028 INFO [main] - IN -- DefaultCertMgr.java - loadInputCert(info) -  
2014-08-02 23:36:46,028 INFO [main] - IN -- RSACryptoEngine.java - loadCertificates(..) -  
2014-08-02 23:36:46,028 INFO [main] - IN -- RSACryptoEngine.java - loadCertificate(..) -  
2014-08-02 23:36:46,029 INFO [main] - OUT -- RSACryptoEngine.java - loadCertificate -  
2014-08-02 23:36:46,030 INFO [main] - OUT -- RSACryptoEngine.java - loadCertificates -  
2014-08-02 23:36:46,030 INFO [main] - OUT -- DefaultCertMgr.java - loadInputCert - Successfully  
loaded input cert  
2014-08-02 23:36:46,030 DEBUG [main] - Checking validity of cert  
2014-08-02 23:36:46,030 INFO [main] - Verifying certificate  
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL  
2014-08-02 23:36:46,030 INFO [main] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) -  
2014-08-02 23:36:46,030 DEBUG [main] - parseCNfromDN( certSubjDN:  
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL')  
2014-08-02 23:36:46,030 DEBUG [main] - Truncating CN 'CUCM861,OU=TAC,O=CISCO,C=PL' -> 'CUCM861'  
2014-08-02 23:36:46,030 INFO [main] - OUT -- CertUtil.java - parseCNfromDN -  
2014-08-02 23:36:46,030 DEBUG [main] - Parsed CN 'CUCM861' from DN  
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL'
```

```
## certificate is being created on the filesystem 2014-08-02 23:36:46,030 INFO [main] - trying  
to load cert from trust store ::/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem  
2014-08-02 23:36:46,030 INFO [main] - cert not available in trust store  
::L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL 2014-08-02 23:36:46,031 INFO [main] - IN  
-- DefaultCertMgr.java - importTrustCert(info, cert) - 2014-08-02 23:36:46,031 INFO [main] - IN  
-- DefaultCertMgr.java - saveToTrustStore(info, cert) - 2014-08-02 23:36:46,031 ERROR [main] -  
trust directory parameter is null 2014-08-02 23:36:46,031 INFO [main] - IN --  
DefaultCertMgr.java - saveTrustCert(cert, targetDir, certType) - 2014-08-02 23:36:46,031 INFO  
[main] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-02 23:36:46,031 DEBUG  
[main] - parseCNfromDN( certSubjDN: 'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL')  
2014-08-02 23:36:46,031 DEBUG [main] - Truncating CN 'CUCM861,OU=TAC,O=CISCO,C=PL' -> 'CUCM861'  
2014-08-02 23:36:46,031 INFO [main] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-02  
23:36:46,031 DEBUG [main] - Parsed CN 'CUCM861' from DN  
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL' 2014-08-02 23:36:46,031 INFO [main] - IN  
-- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-02 23:36:46,031 DEBUG [main] -  
parseCNfromDN( certSubjDN: 'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL') 2014-08-02  
23:36:46,031 DEBUG [main] - Truncating CN 'CUCM861,OU=TAC,O=CISCO,C=PL' -> 'CUCM861' 2014-08-02  
23:36:46,031 INFO [main] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-02 23:36:46,031 DEBUG  
[main] - Parsed CN 'CUCM861' from DN 'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL'  
2014-08-02 23:36:46,031 DEBUG [main] - target filename for imported cert: 'CUCM861.pem' 2014-08-  
02 23:36:46,032 DEBUG [main] - existing certificate with same filename not found. 2014-08-02  
23:36:46,032 DEBUG [main] - Saving PEM encoded cert '/usr/local/platform/.security/tomcat/trust-  
certs/CUCM861.pem' 2014-08-02 23:36:46,032 INFO [main] - IN -- CryptoUtil.java - saveAsPEM(..) -  
File : /usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem 2014-08-02 23:36:46,032 INFO  
[main] - OUT -- CryptoUtil.java - saveAsPEM - 2014-08-02 23:36:46,033 DEBUG [main] - Saving DER  
encoded cert '/usr/local/platform/.security/tomcat/trust-certs/CUCM861.der' 2014-08-02  
23:36:46,033 INFO [main] - OUT -- DefaultCertMgr.java - saveTrustCert - 2014-08-02 23:36:46,033  
INFO [main] - IN -- TomcatCertMgr.java - saveToKeyStore(..) - 2014-08-02 23:36:46,033 INFO  
[main] - IN -- RSACryptoEngine.java - saveToKeyStore(keystoreFile, keystorePass,  
x509Certificate, alias) - 2014-08-02 23:36:46,033 INFO [main] - IN -- RSACryptoEngine.java -  
loadKeyStore(keystoreFile, keystorePass) - 2014-08-02 23:36:46,050 INFO [main] - OUT --  
RSACryptoEngine.java - loadKeyStore - 2014-08-02 23:36:46,050 INFO [main] - Size of the keystore  
before import is : 2 2014-08-02 23:36:46,050 INFO [main] - Importing certificate : CUCM861 2014-  
08-02 23:36:46,061 INFO [main] - Size of the keystore after import is : 3 2014-08-02  
23:36:46,061 INFO [main] - OUT -- RSACryptoEngine.java - saveToKeyStore - 2014-08-02
```

```
23:36:46,061 INFO [main] - OUT -- TomcatCertMgr.java - saveToKeyStore - 2014-08-02 23:36:46,062
DEBUG [main] - TrustCert description filename : 'CUCM861.description' 2014-08-02 23:36:46,062
INFO [main] - IN -- DefaultCertMgr.java - createDescriptionFile(name, description) - 2014-08-02
23:36:46,062 INFO [main] - description is :Trust Certificate 2014-08-02 23:36:46,062 INFO [main]
- OUT -- DefaultCertMgr.java - createDescriptionFile - 2014-08-02 23:36:46,062 INFO [main] - IN
-- DefaultCertMgr.java - setOwnershipAndPermissions(file) - 2014-08-02 23:36:46,062 DEBUG [main]
- setOwnershipAndPermissions : CUCM861.description 2014-08-02 23:36:46,063 DEBUG [main] -
Changing ownership of file '/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.description' 2014-08-02 23:36:46,063 INFO [main] - IN -- Util.java - sysExec(exe,
args) - 2014-08-02 23:36:46,063 DEBUG [main] - Executing command from Util.sysExec : /bin/chown
certbase /usr/local/platform/.security/tomcat/trust-certs/CUCM861.description 2014-08-02
23:36:46,066 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,066 DEBUG [main] -
Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.description' 2014-08-02 23:36:46,067 INFO [main] - IN -- Util.java - sysExec(exe,
args) - 2014-08-02 23:36:46,067 DEBUG [main] - Executing command from Util.sysExec : /bin/chgrp
ccmbase /usr/local/platform/.security/tomcat/trust-certs/CUCM861.description 2014-08-02
23:36:46,069 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,069 DEBUG [main] -
Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM861.description'
2014-08-02 23:36:46,069 INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02
23:36:46,069 DEBUG [main] - Executing command from Util.sysExec : /bin/chmod 755
/usr/local/platform/.security/tomcat/trust-certs/CUCM861.description 2014-08-02 23:36:46,073
INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,073 INFO [main] - OUT --
DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-02 23:36:46,073 INFO [main] - OUT --
DefaultCertMgr.java - saveToTrustStore - 2014-08-02 23:36:46,074 INFO [main] - trustdir
::/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,074 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,074 DEBUG [main] - Executing command from
Util.sysExec : python /usr/local/platform/bin/c_rehash.py
/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,140 INFO [main] - OUT --
Util.java - sysExec - 2014-08-02 23:36:46,140 INFO [main] - IN -- DefaultCertMgr.java -
setOwnershipAndPermissions(file) - 2014-08-02 23:36:46,140 DEBUG [main] -
setOwnershipAndPermissions : trust-certs 2014-08-02 23:36:46,141 DEBUG [main] - Changing
ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,141
INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,141 DEBUG [main] -
Executing command from Util.sysExec : /bin/chown -R certbase
/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,144 INFO [main] - OUT --
Util.java - sysExec - 2014-08-02 23:36:46,144 DEBUG [main] - Changing group ownership of file
'/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,144 INFO [main] - IN --
Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,144 DEBUG [main] - Executing command from
Util.sysExec : /bin/chgrp -R ccmbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-02
23:36:46,147 INFO [main] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,147 DEBUG [main] -
Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,148
INFO [main] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,148 DEBUG [main] -
Executing command from Util.sysExec : /bin/chmod -R 755
/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,152 INFO [main] - OUT --
Util.java - sysExec - 2014-08-02 23:36:46,152 INFO [main] - OUT -- DefaultCertMgr.java -
setOwnershipAndPermissions - 2014-08-02 23:36:46,152 INFO [main] - IN -- CertUtil.java -
populateCertInfo(cert, opInfo, certFilePemLocation) - 2014-08-02 23:36:46,156 INFO [main] - IN -
- CertUtil.java - getHostName(..) - 2014-08-02 23:36:46,156 INFO [main] - OUT -- CertUtil.java -
getHostName - CUCM861 2014-08-02 23:36:46,156 INFO [main] - IN -- CryptoUtil.java -
saveAsPEM(..) - 2014-08-02 23:36:46,157 INFO [main] - OUT -- CryptoUtil.java - saveAsPEM - 2014-
08-02 23:36:46,157 INFO [main] - OUT -- CertUtil.java - populateCertInfo -
```

Ahora la nueva Tomcat-confianza está detrás en el filesystem. Qué izquierda es verificarlo existe en el DB y si falta, agrega las entradas correspondientes.

```
2014-08-02 23:36:46,157 INFO [main] - IN -- CertDBAction.java -
insertCertificateInDB(certFiletoStore, info) -
2014-08-02 23:36:46,157 INFO [main] -
```

DBParameters ...

PKID :null

CN :L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL

serialNo :42c86b2cf293630fe27bbddc7fd02a39

hostName :CUCM861

issuerName :L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
Certificate :Not Printing huge Certificate String..
IPV4Address :10.48.46.29
IPV6Address :
TimeToLive :NULL
UNIT :tomcat-trust
TYPE :trust-certs
ROLE :null
RoleMoniker :null
RoleEnum :null
SERVICE :null
ServiceMoniker :null
ServiceEnum :0

```
2014-08-02 23:36:46,157 INFO [main] - DB - Certifciate Store Plugin Handler is
:com.cisco.ccm.certmgmt.db.CertDBImpl
2014-08-02 23:36:46,159 DEBUG [main] - Connection Initialized to Publisher. Connection
HashCode:23817301 --Details:Connector(NOT CONNECTED: Driver=com.informix.jdbc.IfxDriver;)
2014-08-02 23:36:46,159 INFO [main] - IN -- CertDBImpl.java - insertCertificate(certInfo, con) -
2014-08-02 23:36:46,159 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true]
2014-08-02 23:36:46,159 DEBUG [main] - Try to get a connection from pool
2014-08-02 23:36:46,159 DEBUG [main] - Getting connection from connection pool entry
<database,jdbcurl>
2014-08-02 23:36:46,159 DEBUG [main] - There are currently 2 connection pool entries
2014-08-02 23:36:46,159 DEBUG [main] - Adding connection
<com.informix.jdbc.IfxSqlConnect@77eb97> to connection list
2014-08-02 23:36:46,159 DEBUG [main] - Marking connection
<com.informix.jdbc.IfxSqlConnect@77eb97> as used
2014-08-02 23:36:46,159 DEBUG [main] - Got connection from pool
2014-08-02 23:36:46,166 INFO [main] - IN -- CertDBImpl.java -
populateRoleEnumServiceEnum(certInfo) -
2014-08-02 23:36:46,166 INFO [main] - UNIT :: tomcat-trust
2014-08-02 23:36:46,166 INFO [main] - role :: [ROLE_APPLICATION_SERVER]
2014-08-02 23:36:46,166 INFO [main] - roleEnum :: [7]
2014-08-02 23:36:46,166 INFO [main] - service :: null
2014-08-02 23:36:46,166 INFO [main] - serviceEnum :: 6
2014-08-02 23:36:46,166 INFO [main] - OUT -- CertDBImpl.java - populateRoleEnumServiceEnum -
2014-08-02 23:36:46,166 INFO [main] - IN -- CertDBUtil.java - getProcessNodeId(con, hostName,
ipAddress, fqdn) -
2014-08-02 23:36:46,166 INFO [main] - getProcessNodeId Query :SELECT PKID,NAME FROM PROCESSNODE
WHERE UPPER(NAME)=UPPER("CUCM861") OR UPPER(NAME)=UPPER("10.48.46.29") OR
UPPER(NAME)=UPPER("CUCM861")
2014-08-02 23:36:46,166 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true]
2014-08-02 23:36:46,172 INFO [main] - ProcessNodeId:13f4b0d9-0bae-429a-a86e-625336a35bb6
2014-08-02 23:36:46,172 DEBUG [main] - Closing the resultset.
2014-08-02 23:36:46,173 INFO [main] - Connection/Statement/Resultset is closed properly.
2014-08-02 23:36:46,173 INFO [main] - OUT -- CertDBUtil.java - getProcessNodeId -
2014-08-02 23:36:46,173 INFO [main] - IN -- CertDBImpl.java - getPkidOfCertificate(hash,
serverName, con) -
2014-08-02 23:36:46,173 DEBUG [main] - GetPKID Query :SELECT A.PKID FROM CERTIFICATE A,
CERTIFICATEHASHMAP B WHERE A.PKID=B.FKCERTIFICATE AND B.HASH = "/hSVsEZT+yZeaxE+K0EM02n1Pgk="
2014-08-02 23:36:46,173 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true]
2014-08-02 23:36:46,177 DEBUG [main] - Closing the resultset.
2014-08-02 23:36:46,177 INFO [main] - Connection/Statement/Resultset is closed properly.
2014-08-02 23:36:46,177 INFO [main] - OUT -- CertDBImpl.java - getPkidOfCertificate -
2014-08-02 23:36:46,177 DEBUG [main] - INSERT FLAG :: isCertUpdate=false :: doNothing=false
2014-08-02 23:36:46,177 DEBUG [main] - INSERT/UPDATE Query of CERTIFICATE : null
2014-08-02 23:36:46,177 INFO [main] - IN -- CertDBImpl.java - insertCertSrvCertMap(certInfo,
con) -
2014-08-02 23:36:46,177 INFO [main] - IN -- CertDBImpl.java -
checkExistingCertificateServiceMapping(certInfo, serviceEnum, con) -
```

CM checks CERTIFICATESERVICECERTIFICATEMAP table if the mapping for our cert exist. 2014-08-02 23:36:46,178 DEBUG [main] - checkExistingTrustCertificateForService Query :SELECT PKID,FKCERTIFICATE, TKCERTIFICATESERVICE FROM CERTIFICATESERVICECERTIFICATEMAP WHERE FKCERTIFICATE = "533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" AND TKCERTIFICATESERVICE= "6" 2014-08-02 23:36:46,178 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:46,184 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:46,184 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:46,184 INFO [main] - OUT -- CertDBImpl.java - checkExistingCertificateServiceMapping - 2014-08-02 23:36:46,184 DEBUG [main] - Certificate to be inserted in CERTIFICATESERVICECERTIFICATEMAP table :tomcat-trust ::PKID :533dbbfc-78ce-b46f-7d64-cd2b7c536f6d ::toInsertInCertSrvMap:false **## Since it has not been previously removed it is there** 2014-08-02 23:36:46,185 DEBUG [main] - CertService mapping entry already exists.. 2014-08-02 23:36:46,185 INFO [main] - OUT -- CertDBImpl.java - insertCertSrvCertMap - 2014-08-02 23:36:46,185 INFO [main] - IN -- CertDBImpl.java - insertCertTrustRoleMap(certInfo, log, con) - 2014-08-02 23:36:46,185 INFO [main] - IN -- CertDBImpl.java - checkExistingCertificateRoleMapping(certInfo, roleEnum, con) - **## the same is being checked for CERTIFICATETRUSTROLEMAP table ...** 2014-08-02 23:36:46,185 DEBUG [main] - checkExistingTrustCertificateForRole Query :SELECT PKID,FKCERTIFICATE, TKTRUSTROLE FROM CERTIFICATETRUSTROLEMAP WHERE FKCERTIFICATE = "533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" AND TKTRUSTROLE= "7" 2014-08-02 23:36:46,185 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:46,187 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:46,188 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:46,188 INFO [main] - OUT -- CertDBImpl.java - checkExistingCertificateRoleMapping - 2014-08-02 23:36:46,188 DEBUG [main] - Certificate to be inserted in CERTIFICATETRUSTROLEMAP table :tomcat-trust ::PKID :533dbbfc-78ce-b46f-7d64-cd2b7c536f6d ::toInsertInCertSrvMap:false **## it exists also here** 2014-08-02 23:36:46,188 DEBUG [main] - CertRole mapping entry already exists.. 2014-08-02 23:36:46,188 INFO [main] - OUT -- CertDBImpl.java - insertCertTrustRoleMap - 2014-08-02 23:36:46,188 INFO [main] - IN -- CertDBImpl.java - insertCertProcessNodeMap(certInfo, con) - 2014-08-02 23:36:46,188 INFO [main] - IN -- CertDBImpl.java - checkExistingCertProcessNodeMapping(certInfo, con) - 2014-08-02 23:36:46,188 DEBUG [main] - checkExistingCertProcessNodeMapping Query :SELECT PKID,FKCERTIFICATE, FKPROCESSNODE, SERVERNAME FROM CERTIFICATEPROCESSNODEMAP WHERE FKCERTIFICATE="533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" AND FKPROCESSNODE="13f4b0d9-0bae-429a-a86e-625336a35bb6" AND SERVERNAME="CUCM861" 2014-08-02 23:36:46,188 DEBUG [main] - getConn:
usePooling[true]connectToLocalDB[false]_target[0]connectToPubByDefault[true] 2014-08-02 23:36:46,190 DEBUG [main] - Closing the resultset. 2014-08-02 23:36:46,191 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:46,191 INFO [main] - OUT -- CertDBImpl.java - checkExistingCertProcessNodeMapping - 2014-08-02 23:36:46,191 DEBUG [main] - CertProcessNode mapping entry already exists.. 2014-08-02 23:36:46,191 INFO [main] - OUT -- CertDBImpl.java - insertCertProcessNodeMap - 2014-08-02 23:36:46,191 DEBUG [main] - Connection committed for insertCertificate.. **## since no entries in DB were missing Insertion finishes.** 2014-08-02 23:36:46,191 DEBUG [main] - Insertion of Certificate in DB is Successful. 2014-08-02 23:36:46,191 INFO [main] - OUT -- CertDBImpl.java - insertCertificate - 2014-08-02 23:36:46,192 DEBUG [main] - Closing the connection. Connection HashCode:23817301 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:46,192 DEBUG [main] - Attempting to close connection 2014-08-02 23:36:46,192 DEBUG [main] - Removing connection <database, jdbcurl> from ConnectionManager list 2014-08-02 23:36:46,192 DEBUG [main] - removeConnectionFromConnectionList() 2014-08-02 23:36:46,192 DEBUG [main] - Removing connection <com.informix.jdbc.IfxSqlConnect@77eb97> from connection list 2014-08-02 23:36:46,192 DEBUG [main] - Connection <com.informix.jdbc.IfxSqlConnect@77eb97> is not closed, adding it back to the pool entry <database,jdbcurl> 2014-08-02 23:36:46,192 INFO [main] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:46,192 INFO [main] - DB - Generate Certificate operation in DB is successful 2014-08-02 23:36:46,192 INFO [main] - OUT -- CertDBAction.java - insertCertificateInDB - 2014-08-02 23:36:46,192 INFO [main] - IN -- CryptoUtil.java - isOCSPEnabled(..) - 2014-08-02 23:36:46,192 INFO [main] - IN -- CryptoUtil.java - getCertMonitorXmlParser(..) - 2014-08-02 23:36:46,203 INFO [main] - OUT -- CryptoUtil.java - getCertMonitorXmlParser - 2014-08-02 23:36:46,203 INFO [main] - OUT -- CryptoUtil.java - isOCSPEnabled - false 2014-08-02 23:36:46,203 DEBUG [main] - OCSP is not enabled. 2014-08-02 23:36:46,204 INFO [main] - Successfully imported trusted certificate with Subject DN:L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL 2014-08-02 23:36:46,204 INFO [main] - OUT -- DefaultCertMgr.java - importTrustCert - Successfully imported trusted certificate with Subject DN:L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL **## at this**

moment importing the tomcat-trust ends. CM finishes adding tomcat-trust to the

```
## trust store and removes CSR file if any. 2014-08-02 23:36:46,204 INFO [main] - result of
import operations is ::Import of trust certificate is successful 2014-08-02 23:36:46,204 INFO
[main] - OUT -- DefaultCertMgr.java - importCert - 2014-08-02 23:36:46,204 INFO [main] - OUT --
TomcatCertMgr.java - importCertToTomcatTrustStore - 2014-08-02 23:36:46,204 INFO [main] - Tomcat
Self-signed certificate copied in Tomcat trust-store successfully 2014-08-02 23:36:46,204 INFO
[main] - OUT -- TomcatCertMgr.java - copyToTomcatTrustStore - 2014-08-02 23:36:46,204 DEBUG
[main] - GenCert returned 2014-08-02 23:36:46,204 DEBUG [main] - CSR FileName is tomcat-
trust.csr 2014-08-02 23:36:46,204 DEBUG [main] - CSR File Deleted:
/usr/local/platform/.security/tomcat/keys/tomcat-trust.csr 2014-08-02 23:36:46,204 INFO [main] -
Delete CSR File: /usr/local/platform/.security/tomcat/keys/tomcat-trust.csr 2014-08-02
23:36:46,204 DEBUG [main] - Private Key in DER Form is: tomcat-trust_priv_csr.der 2014-08-02
23:36:46,204 DEBUG [main] - PEM Key in PEM form is:tomcat-trust_priv_csr.pem 2014-08-02
23:36:46,206 INFO [main] - OUT -- DefaultCertMgr.java - regenCert - 2014-08-02 23:36:46,206 INFO
[main] - IN -- CertMgr.java - logResult(result, desc, resultFile) - 2014-08-02 23:36:46,206 INFO
[main] - CertMgmt Operation Result : null 2014-08-02 23:36:46,207 INFO [main] - OUT --
CertMgr.java - logResult - 2014-08-02 23:36:46,207 INFO [main] - OUT -- CertMgr.java - doOp -
2014-08-02 23:36:46,207 INFO [main] - OUT -- CertMgr.java - mainIntenal -
```

El papel CM termina aquí. Hechemos una ojeada el certCN abre una sesión el nodo del editor. Puesto que está inscrito a la notificación de cambio DB será notificado sobre el cambio del certificado en la tabla del CERTIFICADO.

```
2014-08-02 23:36:45,605 INFO [Thread-5] - IN - process. changeData &colon;
2014-08-02 23:36:45,607 INFO [Thread-5] - Inside CERTIFICATE - I/U option..
2014-08-02 23:36:45,607 DEBUG [Thread-5] - Updated Data in CERTIFICATE
::<msg><type>DBL</type><table>certificate</table><tableid>41</tableid><action>U</action><time>14
07015405</time><old><cdrserver>2</cdrserver><cdrtime>1407012599</cdrtime><pkid>533dbbfc-78ce-
b46f-7d64-
cd2b7c536f6d</pkid><servername>CUCM861</servername><subjectname>L=KRAKOW,ST=MALOPOLSKA,CN=CUCM86
1,OU=TAC,O=CISCO,C=PL</subjectname><issuename>L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,
C=PL</issuename><serialnumber>6cf5bc855b681f658f9e7506d3ec6ea5</serialnumber><certificate></cer
tificate><ipv4address>10.48.46.29</ipv4address><ipv6address></ipv6address><timetolive>NULL</time
tolive><ifx_replcheck>6043073097765093380</ifx_replcheck></old><new><servername>CUCM861</servern
ame><subjectname>L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL</subjectname><issuename>
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL</issuename><serialnumber>42c86b2cf293630f
e27bbddc7fd02a39</serialnumber><certificate>changed</certificate><ipv4address>10.48.46.29</ipv4a
ddress><ipv6address></ipv6address><timetolive>NULL</timetolive></new></msg>
2014-08-02 23:36:45,607 DEBUG [Thread-5] - Certificate PKID : 533dbbfc-78ce-b46f-7d64-
cd2b7c536f6d , ipAddress : 10.48.46.29 , OldSerialNo : 6cf5bc855b681f658f9e7506d3ec6ea5 ,
NewSerialNo : 42c86b2cf293630fe27bbddc7fd02a39
2014-08-02 23:36:45,607 INFO [Thread-5] - OUT - process.
2014-08-02 23:36:45,608 INFO [InsertThread --- 7] - IN -- CertKeystoreHandler.java - run() -
2014-08-02 23:36:45,609 DEBUG [InsertThread --- 7] - InsertThread --- 7 -- START --

## getting PKID for which the change occurred
2014-08-02 23:36:45,609 DEBUG [InsertThread --- 7] - DB Value UPDATE: 533dbbfc-78ce-b46f-7d64-
cd2b7c536f6d
2014-08-02 23:36:45,609 INFO [InsertThread --- 7] - IN -- CertKeystoreHandler.java -
updateIntoKeystore() -
2014-08-02 23:36:45,610 INFO [InsertThread --- 7] - IN -- CertDBImpl.java -
getCertificate(certBash64SHA1:null --pkid:533dbbfc-78ce-b46f-7d64-cd2b7c536f6d
2014-08-02 23:36:45,611 DEBUG [InsertThread --- 7] - Connection Initialized to localnode.
Connection HashCode:22502526 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;)
2014-08-02 23:36:45,611 DEBUG [InsertThread --- 7] - Select Query to getCertificate :SELECT
A.*,B.HASH FROM CERTIFICATE A, CERTIFICATEHASHMAP B WHERE A.PKID=B.FKCERTIFICATE AND A.PKID =
"533dbbfc-78ce-b46f-7d64-cd2b7c536f6d"
2014-08-02 23:36:45,611 DEBUG [InsertThread --- 7] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false]
2014-08-02 23:36:45,611 DEBUG [InsertThread --- 7] - Got connection from pool
2014-08-02 23:36:45,681 DEBUG [InsertThread --- 7] - Closing the resultset.
2014-08-02 23:36:45,681 DEBUG [InsertThread --- 7] - Closing the connection. Connection
HashCode:22502526 --Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;)
```

```
2014-08-02 23:36:45,681 DEBUG [InsertThread --- 7] - Attempting to close connection
2014-08-02 23:36:45,681 DEBUG [InsertThread --- 7] - Removing connection <database, jdbcurl2>
from ConnectionManager list
2014-08-02 23:36:45,681 DEBUG [InsertThread --- 7] - removeConnectionFromConnectionList()
2014-08-02 23:36:45,681 DEBUG [InsertThread --- 7] - Removing connection
<com.informix.jdbc.IfxSqlConnect@1ccblae> from connection list
2014-08-02 23:36:45,682 DEBUG [InsertThread --- 7] - Connection
<com.informix.jdbc.IfxSqlConnect@1ccblae> is not closed, adding it back to the pool entry
<database,jdbcurl2>
2014-08-02 23:36:45,682 INFO [InsertThread --- 7] - Connection/Statement/Resultset is closed
properly.
2014-08-02 23:36:45,682 DEBUG [InsertThread --- 7] - Connection released from
CertDBImpl.getCertificate method.
2014-08-02 23:36:45,682 INFO [InsertThread --- 7] - OUT -- CertDBImpl.java - getCertificate -
2014-08-02 23:36:45,682 INFO [InsertThread --- 7] - IN -- CertDBImpl.java -
getCertUnitByPkid(pkid) -
2014-08-02 23:36:45,683 DEBUG [InsertThread --- 7] - Connection Initialized to localnode.
Connection HashCode:25877029 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;)

## getting info about changed certificate 2014-08-02 23:36:45,684 DEBUG [InsertThread --- 7] -
Select Query to getCertUnitByPkid :SELECT A.PKID, A.FKCERTIFICATE, A.TKCERTIFICATESERVICE,
B.NAME UNIT FROM CERTIFICATESERVICECERTIFICATEMAP A, TYPECERTIFICATESERVICE B WHERE
A.FKCERTIFICATE="533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" AND A.TKCERTIFICATESERVICE = B.ENUM 2014-
08-02 23:36:45,684 DEBUG [InsertThread --- 7] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-02
23:36:45,684 DEBUG [InsertThread --- 7] - Try to get a connection from pool 2014-08-02
23:36:45,684 DEBUG [InsertThread --- 7] - getting local connection from Pool 2014-08-02
23:36:45,684 DEBUG [InsertThread --- 7] - Getting connection from connection pool entry
<database,jdbcurl2> 2014-08-02 23:36:45,684 DEBUG [InsertThread --- 7] - There are currently 2
connection pool entries 2014-08-02 23:36:45,684 DEBUG [InsertThread --- 7] - Adding connection
<com.informix.jdbc.IfxSqlConnect@1ccblae> to connection list 2014-08-02 23:36:45,684 DEBUG
[InsertThread --- 7] - Marking connection <com.informix.jdbc.IfxSqlConnect@1ccblae> as used
2014-08-02 23:36:45,684 DEBUG [InsertThread --- 7] - Got connection from pool 2014-08-02
23:36:45,687 DEBUG [InsertThread --- 7] - Closing the resultset. 2014-08-02 23:36:45,688 DEBUG
[InsertThread --- 7] - Closing the connection. Connection HashCode:25877029 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:45,688 DEBUG
[InsertThread --- 7] - Attempting to close connection 2014-08-02 23:36:45,688 DEBUG
[InsertThread --- 7] - Removing connection <database, jdbcurl2> from ConnectionManager list
2014-08-02 23:36:45,688 DEBUG [InsertThread --- 7] - removeConnectionFromConnectionList() 2014-
08-02 23:36:45,688 DEBUG [InsertThread --- 7] - Removing connection
<com.informix.jdbc.IfxSqlConnect@1ccblae> from connection list 2014-08-02 23:36:45,688 DEBUG
[InsertThread --- 7] - Connection <com.informix.jdbc.IfxSqlConnect@1ccblae> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-02 23:36:45,688 INFO [InsertThread
--- 7] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:45,688 DEBUG
[InsertThread --- 7] - Resultset released from CertDBImpl.getCertUnitByPkid method. 2014-08-02
23:36:45,688 INFO [InsertThread --- 7] - OUT -- CertDBImpl.java - getCertUnitByPkid - 2014-08-02
23:36:45,688 INFO [InsertThread --- 7] - UNIT : tomcat 2014-08-02 23:36:45,688 INFO
[InsertThread --- 7] - CurrentIPAddress : 10.48.46.29 2014-08-02 23:36:45,688 INFO [InsertThread
--- 7] - RemoteIPAddress : 10.48.46.29 2014-08-02 23:36:45,688 INFO [InsertThread --- 7] -
OldSerialNo :6cf5bc855b681f658f9e7506d3ec6ea5 2014-08-02 23:36:45,688 INFO [InsertThread --- 7]
- NewSerialNo :42c86b2cf293630fe27bbddc7fd02a39 2014-08-02 23:36:45,688 INFO [InsertThread ---
7] - IN -- CertUtil.java - getListFromComaSeperatedStr(..) - 2014-08-02 23:36:45,688 INFO
[InsertThread --- 7] - OUT -- CertUtil.java - getListFromComaSeperatedStr - ## as you know
tomcat and tomcat-trust certificates are covered by change notification.
## Since both ones has been properly updated by CM service there is nothing to do for the ##
certCN service here. 2014-08-02 23:36:45,688 INFO [InsertThread --- 7] - tomcat --- is included
unit for CN 2014-08-02 23:36:45,688 DEBUG [InsertThread --- 7] - Change notification not require
on same node except tomcat cert. 2014-08-02 23:36:45,688 INFO [InsertThread --- 7] - UNIT :
tomcat-trust 2014-08-02 23:36:45,688 INFO [InsertThread --- 7] - CurrentIPAddress : 10.48.46.29
2014-08-02 23:36:45,688 INFO [InsertThread --- 7] - RemoteIPAddress : 10.48.46.29 2014-08-02
23:36:45,688 INFO [InsertThread --- 7] - OldSerialNo :6cf5bc855b681f658f9e7506d3ec6ea5 2014-08-
02 23:36:45,688 INFO [InsertThread --- 7] - NewSerialNo :42c86b2cf293630fe27bbddc7fd02a39 2014-
08-02 23:36:45,688 INFO [InsertThread --- 7] - IN -- CertUtil.java -
```

```
getListFromComaSeperatedStr(..) - 2014-08-02 23:36:45,688 INFO [InsertThread --- 7] - OUT --
CertUtil.java - getListFromComaSeperatedStr - 2014-08-02 23:36:45,688 INFO [InsertThread --- 7]
- tomcat-trust --- is included unit for CN 2014-08-02 23:36:45,688 DEBUG [InsertThread --- 7] -
Change notification not require on same node except tomcat cert. 2014-08-02 23:36:45,689 INFO
[InsertThread --- 7] - tomcat-trust Certificate successfully updated in trust-store by Change
Notification.. 2014-08-02 23:36:45,689 INFO [InsertThread --- 7] - OUT --
CertKeystoreHandler.java - updateIntoKeystore - 2014-08-02 23:36:45,689 DEBUG [InsertThread ---
7] - InsertThread --- 7 -- END -- 2014-08-02 23:36:45,689 INFO [InsertThread --- 7] - OUT --
CertKeystoreHandler.java - run -
```

No se ha hecho tan ningunos cambios a los Certificados por el servicio del certCN en el nodo del editor.

f. Ahora deja para hechar una ojeada cómo parece en el nodo del suscriptor. El nuevo CERT se ha insertado en el DB y se ha replicado al nodo del suscriptor. el certCN se ha notificado sobre el cambio en el DB.

Cortado con la operación completa en el submarino abajo (comentarios en la línea):

```
## certCN on sub is notified about the change in the DB 2014-08-02 23:36:46,147 INFO [Thread-5]
- IN - process. changeData &colon; 2014-08-02 23:36:46,149 INFO [Thread-5] - Inside CERTIFICATE
- I/U option.. ## details about the change are in from DBL (PKID, old serial, new serial, etc.)
2014-08-02 23:36:46,149 DEBUG [Thread-5] - Updated Data in CERTIFICATE
::<msg><type>DBL</type><table>certificate</table><tableid>41</tableid><action>U</action><time>14
07015406</time><old><cdrserver>2</cdrserver><cdrtime>1407012599</cdrtime><pkid>533dbbfc-78ce-
b46f-7d64-
cd2b7c536f6d</pkid><servername>CUCM861</servername><subjectname>L=KRAKOW,ST=MALOPOLSKA,CN=CUCM86
1,OU=TAC,O=CISCO,C=PL</subjectname><issuename>L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,
C=PL</issuename><serialnumber>6cf5bc855b681f658f9e7506d3ec6ea5</serialnumber><certificate></cer
tificate><ipv4address>10.48.46.29</ipv4address><ipv6address></ipv6address><timetolive>NULL</time
tolive><ifx_replcheck>6043073097765093380</ifx_replcheck></old><new><pkid>533dbbfc-78ce-b46f-
7d64-
cd2b7c536f6d</pkid><servername>CUCM861</servername><subjectname>L=KRAKOW,ST=MALOPOLSKA,CN=CUCM86
1,OU=TAC,O=CISCO,C=PL</subjectname><issuename>L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,
C=PL</issuename><serialnumber>42c86b2cf293630fe27bbddc7fd02a39</serialnumber><certificate>chang
ed</certificate><ipv4address>10.48.46.29</ipv4address><ipv6address></ipv6address><timetolive>NUL
L</timetolive></new></msg> 2014-08-02 23:36:46,149 DEBUG [Thread-5] - Certificate PKID :
533dbbfc-78ce-b46f-7d64-cd2b7c536f6d , ipAddress : 10.48.46.29 , OldSerialNo :
6cf5bc855b681f658f9e7506d3ec6ea5 , NewSerialNo : 42c86b2cf293630fe27bbddc7fd02a39 2014-08-02
23:36:46,150 INFO [Thread-5] - OUT - process. 2014-08-02 23:36:46,151 INFO [InsertThread --- 34]
- IN -- CertKeystoreHandler.java - run() - 2014-08-02 23:36:46,152 DEBUG [InsertThread --- 34] -
InsertThread --- 34 -- START -- 2014-08-02 23:36:46,152 DEBUG [InsertThread --- 34] - DB Value
UPDATE: 533dbbfc-78ce-b46f-7d64-cd2b7c536f6d 2014-08-02 23:36:46,152 INFO [InsertThread --- 34]
- IN -- CertKeystoreHandler.java - updateIntoKeystore() - 2014-08-02 23:36:46,153 INFO
[InsertThread --- 34] - IN -- CertDBImpl.java - getCertificate(certBash64SHA1:null --
pkid:533dbbfc-78ce-b46f-7d64-cd2b7c536f6d 2014-08-02 23:36:46,153 DEBUG [InsertThread --- 34] -
Connection Initialized to localnode. Connection HashCode:30330150 --Details:Connector(NOT
CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:46,153 DEBUG [InsertThread ---
34] - Select Query to getCertificate :SELECT A.*,B.HASH FROM CERTIFICATE A, CERTIFICATEHASHMAP B
WHERE A.PKID=B.FKCERTIFICATE AND A.PKID = "533dbbfc-78ce-b46f-7d64-cd2b7c536f6d" 2014-08-02
23:36:46,153 DEBUG [InsertThread --- 34] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-02
23:36:46,154 DEBUG [InsertThread --- 34] - Try to get a connection from pool 2014-08-02
23:36:46,154 DEBUG [InsertThread --- 34] - getting local connection from Pool 2014-08-02
23:36:46,154 DEBUG [InsertThread --- 34] - Getting connection from connection pool entry
<database,jdbcurl2> 2014-08-02 23:36:46,154 DEBUG [InsertThread --- 34] - There are currently 2
connection pool entries 2014-08-02 23:36:46,154 DEBUG [InsertThread --- 34] - Checking if
connection limit has been reached for database 2014-08-02 23:36:46,154 DEBUG [InsertThread ---
34] - Connecting to subscriber so max number of connections allowed is 100 2014-08-02
23:36:46,154 DEBUG [InsertThread --- 34] - Number of connections in use is 0 2014-08-02
23:36:46,154 DEBUG [InsertThread --- 34] - There are currently 2 connection pool entries 2014-
08-02 23:36:46,154 DEBUG [InsertThread --- 34] - Number of available connections in pool: 0
2014-08-02 23:36:46,193 DEBUG [InsertThread --- 34] - Adding connection
<com.informix.jdbc.IfxSqlConnect@1feba51> to connection list 2014-08-02 23:36:46,194 DEBUG
```

[InsertThread --- 34] - Marking connection <com.informix.jdbc.IfxSqliConnect@1feba51> as used
2014-08-02 23:36:46,194 DEBUG [InsertThread --- 34] - Got connection from pool 2014-08-02
23:36:46,197 DEBUG [InsertThread --- 34] - Closing the resultset. 2014-08-02 23:36:46,198 DEBUG
[InsertThread --- 34] - Closing the connection. Connection HashCode:30330150 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:46,198 DEBUG
[InsertThread --- 34] - Attempting to close connection 2014-08-02 23:36:46,198 DEBUG
[InsertThread --- 34] - Removing connection <database, jdbcurl2> from ConnectionManager list
2014-08-02 23:36:46,198 DEBUG [InsertThread --- 34] - removeConnectionFromConnectionList() 2014-
08-02 23:36:46,198 DEBUG [InsertThread --- 34] - Removing connection
<com.informix.jdbc.IfxSqliConnect@1feba51> from connection list 2014-08-02 23:36:46,198 DEBUG
[InsertThread --- 34] - Connection <com.informix.jdbc.IfxSqliConnect@1feba51> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-02 23:36:46,198 INFO [InsertThread
--- 34] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:46,198 DEBUG
[InsertThread --- 34] - Connection released from CertDBImpl.getCertificate method. 2014-08-02
23:36:46,198 INFO [InsertThread --- 34] - OUT -- CertDBImpl.java - getCertificate - 2014-08-02
23:36:46,198 INFO [InsertThread --- 34] - IN -- CertDBImpl.java - getCertUnitByPkid(pkid) -
2014-08-02 23:36:46,199 DEBUG [InsertThread --- 34] - Connection Initialized to localnode.
Connection HashCode:8005144 --Details:Connector(NOT CONNECTED:
Driver=com.informix.jdbc.IfxDriver;) **## quering DB for the changed certificate and getting
details of it** 2014-08-02 23:36:46,199 DEBUG [InsertThread --- 34] - Select Query to
getCertUnitByPkid :SELECT A.PKID, A.FKCERTIFICATE, A.TKCERTIFICATESERVICE, B.NAME UNIT FROM
CERTIFICATESERVICECERTIFICATEMAP A, TYPECERTIFICATESERVICE B WHERE A.FKCERTIFICATE="533dbbfc-
78ce-b46f-7d64-cd2b7c536f6d" AND A.TKCERTIFICATESERVICE = B.ENUM 2014-08-02 23:36:46,199 DEBUG
[InsertThread --- 34] - getConn:
usePooling[true]connectToLocalDB[true]_target[0]connectToPubByDefault[false] 2014-08-02
23:36:46,199 DEBUG [InsertThread --- 34] - Try to get a connection from pool 2014-08-02
23:36:46,199 DEBUG [InsertThread --- 34] - getting local connection from Pool 2014-08-02
23:36:46,199 DEBUG [InsertThread --- 34] - Getting connection from connection pool entry
<database,jdbcurl2> 2014-08-02 23:36:46,199 DEBUG [InsertThread --- 34] - There are currently 2
connection pool entries 2014-08-02 23:36:46,199 DEBUG [InsertThread --- 34] - Adding connection
<com.informix.jdbc.IfxSqliConnect@1feba51> to connection list 2014-08-02 23:36:46,199 DEBUG
[InsertThread --- 34] - Marking connection <com.informix.jdbc.IfxSqliConnect@1feba51> as used
2014-08-02 23:36:46,199 DEBUG [InsertThread --- 34] - Got connection from pool 2014-08-02
23:36:46,203 DEBUG [InsertThread --- 34] - Closing the resultset. 2014-08-02 23:36:46,204 DEBUG
[InsertThread --- 34] - Closing the connection. Connection HashCode:8005144 --
Details:Connector(CONNECTED: Driver=com.informix.jdbc.IfxDriver;) 2014-08-02 23:36:46,204 DEBUG
[InsertThread --- 34] - Attempting to close connection 2014-08-02 23:36:46,204 DEBUG
[InsertThread --- 34] - Removing connection <database, jdbcurl2> from ConnectionManager list
2014-08-02 23:36:46,204 DEBUG [InsertThread --- 34] - removeConnectionFromConnectionList() 2014-
08-02 23:36:46,204 DEBUG [InsertThread --- 34] - Removing connection
<com.informix.jdbc.IfxSqliConnect@1feba51> from connection list 2014-08-02 23:36:46,204 DEBUG
[InsertThread --- 34] - Connection <com.informix.jdbc.IfxSqliConnect@1feba51> is not closed,
adding it back to the pool entry <database,jdbcurl2> 2014-08-02 23:36:46,204 INFO [InsertThread
--- 34] - Connection/Statement/Resultset is closed properly. 2014-08-02 23:36:46,204 DEBUG
[InsertThread --- 34] - Resultset released from CertDBImpl.getCertUnitByPkid method. 2014-08-02
23:36:46,204 INFO [InsertThread --- 34] - OUT -- CertDBImpl.java - getCertUnitByPkid - 2014-08-
02 23:36:46,204 INFO [InsertThread --- 34] - UNIT : tomcat 2014-08-02 23:36:46,204 INFO
[InsertThread --- 34] - CurrentIPAddress : 10.48.46.30 2014-08-02 23:36:46,204 INFO
[InsertThread --- 34] - RemoteIPAddress : 10.48.46.29 2014-08-02 23:36:46,204 INFO [InsertThread
--- 34] - OldSerialNo :6cf5bc855b681f658f9e7506d3ec6ea5 2014-08-02 23:36:46,204 INFO
[InsertThread --- 34] - NewSerialNo :42c86b2cf293630fe27bbddc7fd02a39 2014-08-02 23:36:46,204
INFO [InsertThread --- 34] - IN -- CertUtil.java - getListFromComaSeperatedStr(..) - 2014-08-02
23:36:46,204 INFO [InsertThread --- 34] - OUT -- CertUtil.java - getListFromComaSeperatedStr -
2014-08-02 23:36:46,204 INFO [InsertThread --- 34] - tomcat --- is included unit for CN 2014-08-
02 23:36:46,204 INFO [InsertThread --- 34] - IN -- CertUtil.java - loadCertFromString(cert) -
2014-08-02 23:36:46,204 INFO [InsertThread --- 34] - IN -- RSACryptoEngine.java -
loadCertificate(..) - 2014-08-02 23:36:46,209 INFO [InsertThread --- 34] - OUT --
RSACryptoEngine.java - loadCertificate - 2014-08-02 23:36:46,209 INFO [InsertThread --- 34] -
OUT -- CertUtil.java - loadCertFromString - 2014-08-02 23:36:46,209 INFO [InsertThread --- 34] -
IN -- CertDBUtil.java - checkDeleteAndImport(unit, dbCert) - 2014-08-02 23:36:46,209 INFO
[InsertThread --- 34] - DB CertInfo.--SN:88769680872451706773275250466208361017--
SubjectDN:L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL--GetNotBefore:Sat Aug 02
23:36:44 CEST 2014--GetNotAfter:Thu Aug 01 23:36:43 CEST 2019 **## verifying that you have this
certificate in trust store** 2014-08-02 23:36:46,209 INFO [InsertThread --- 34] - loading

certificate element named [tomcat-trust] 2014-08-02 23:36:46,210 INFO [InsertThread --- 34] -
determining certificates in group [product-cpi] with type [trust-certs] 2014-08-02 23:36:46,210
INFO [InsertThread --- 34] - loading the config file [/usr/local/platform/conf/cert-conf.xml]
2014-08-02 23:36:46,212 INFO [InsertThread --- 34] - looking for first [trust-certs] in
[product-cpi] 2014-08-02 23:36:46,212 INFO [InsertThread --- 34] - loaded element [tomcat-trust]
2014-08-02 23:36:46,212 INFO [InsertThread --- 34] - determining cert dir for [tomcat-trust]
2014-08-02 23:36:46,212 INFO [InsertThread --- 34] - looking for first [dir] in [tomcat-trust]
2014-08-02 23:36:46,212 INFO [InsertThread --- 34] - getting the value of [dir] 2014-08-02
23:36:46,213 INFO [InsertThread --- 34] - value is [/usr/local/platform/.security/tomcat/trust-
certs] 2014-08-02 23:36:46,213 INFO [InsertThread --- 34] - cert dir is
[/usr/local/platform/.security/tomcat/trust-certs] 2014-08-02 23:36:46,213 INFO [InsertThread --
- 34] - [/usr/local/platform/.security/tomcat/trust-certs/VeriSign_Class_3_Secure_Server_CA_-
_G3.description] match is false 2014-08-02 23:36:46,213 INFO [InsertThread --- 34] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.description] match is false 2014-08-
02 23:36:46,213 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-
certs/VeriSign_Class_3_Secure_Server_CA_-G3.pem] match is true 2014-08-02 23:36:46,213 INFO
[InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-
certs/VeriSign_Class_3_Secure_Server_CA_-G3.der] match is true 2014-08-02 23:36:46,213 INFO
[InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore]
match is false **## this is the one you are looking for** 2014-08-02 23:36:46,213 INFO [InsertThread
--- 34] - [/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.der] match is true 2014-08-
02 23:36:46,213 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.der] match is true 2014-08-02 23:36:46,213 INFO [InsertThread --- 34] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861.description] match is false 2014-08-02
23:36:46,213 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-
certs/7e0370f0.0] match is false 2014-08-02 23:36:46,213 INFO [InsertThread --- 34] -
[/usr/local/platform/.security/tomcat/trust-certs/d0aacffb.0] match is false 2014-08-02
23:36:46,213 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-
certs/101f99a6.0] match is false 2014-08-02 23:36:46,213 INFO [InsertThread --- 34] -
[/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem] match is true 2014-08-02
23:36:46,213 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-
certs/CUCM861s.pem] match is true 2014-08-02 23:36:46,213 INFO [InsertThread --- 34] - IN --
RSACryptoEngine.java - loadCertificate(..) - 2014-08-02 23:36:46,213 INFO [InsertThread --- 34]
- OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-02 23:36:46,213 INFO [InsertThread ---
34] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-02 23:36:46,214 INFO
[InsertThread --- 34] - OUT -- RSACryptoEngine.java - loadCertificate - **## certificate file is
being deleted from the filesystem** 2014-08-02 23:36:46,214 DEBUG [InsertThread --- 34] -
SUBJECTDN of DBCert and FileSystemCert compared correctly.. 2014-08-02 23:36:46,214 DEBUG
[InsertThread --- 34] - FILE SYSTEM CERT TO DELETE AND RE-IMPORT.. 2014-08-02 23:36:46,214 INFO
[InsertThread --- 34] - IN -- CertDBUtil.java - deleteTrustCertInFileSystem.. unit : tomcat ::
FileName :: /usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem 2014-08-02 23:36:46,214
INFO [InsertThread --- 34] - IN -- CertDBUtil.java - populateOpInfo(operation, unit, type,
fileLocation, x509Cert, isDBInsert) - 2014-08-02 23:36:46,214 INFO [InsertThread --- 34] -
loading certificate element named [tomcat-trust] 2014-08-02 23:36:46,214 INFO [InsertThread ---
34] - determining certificates in group [product-cpi] with type [trust-certs] 2014-08-02
23:36:46,214 INFO [InsertThread --- 34] - loading the config file
[/usr/local/platform/conf/cert-conf.xml] 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] -
looking for first [trust-certs] in [product-cpi] 2014-08-02 23:36:46,215 INFO [InsertThread ---
34] - loaded element [tomcat-trust] 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] -
determining key dir for [tomcat-trust] 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] -
looking for first [key-dir] in [tomcat-trust] 2014-08-02 23:36:46,215 INFO [InsertThread --- 34]
- getting the value of [key-dir] 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] - value is
[/usr/local/platform/.security/tomcat/keys] 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] -
key dir is [/usr/local/platform/.security/tomcat/keys] 2014-08-02 23:36:46,215 INFO
[InsertThread --- 34] - OUT -- CertDBUtil.java - populateOpInfo - 2014-08-02 23:36:46,215 INFO
[InsertThread --- 34] - IN -- CertMgr.java - getCertMgrObj(unit) - tomcat-trust **## certCN will
call CM api to perform this task. But nothing will land in CM logs. All
details can be found below** 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] - OUT --
CertMgr.java - getCertMgrObj - com.cisco.cpi.certMgmt.manager.TomcatCertMgr@15b0e9f 2014-08-02
23:36:46,215 INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java - deleteCert(info) - decode:
true op: delete unit: tomcat-trust keystoreUnit:tomcat-trust logFile:
/var/log/active/platform/log/cert-mgmt.log resultFile:/var/log/active/platform/log/certde-
info.xml keyDir: /usr/local/platform/.security/tomcat/keys certDir:
/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem srcCert: null type: trust-certs

```
rootCACert: null trustDir: null DNAME: null description:null isDBInsert:false 2014-08-02
23:36:46,215 INFO [InsertThread --- 34] - parsed filename: 'CUCM861.pem' 2014-08-02 23:36:46,215
DEBUG [InsertThread --- 34] - filename: 'CUCM861.pem' 2014-08-02 23:36:46,215 DEBUG
[InsertThread --- 34] - fileRoot: 'CUCM861' 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] -
IN -- DefaultCertMgr.java - deletedDERandPEM(filenameRoot, parentDir, info) - 2014-08-02
23:36:46,215 DEBUG [InsertThread --- 34] - ParentDir:/usr/local/platform/.security/tomcat/trust-
certsFileName.(DER/PEM):CUCM861 2014-08-02 23:36:46,215 INFO [InsertThread --- 34] - IN --
RSACryptoEngine.java - loadCertificate(..) - 2014-08-02 23:36:46,224 INFO [InsertThread --- 34]
- OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-02 23:36:46,224 INFO [InsertThread ---
34] - No plugins registered for DB Store 2014-08-02 23:36:46,224 INFO [InsertThread --- 34] -
OUT -- DefaultCertMgr.java - deletedDERandPEM - 2014-08-02 23:36:46,224 DEBUG [InsertThread ---
34] - deletedDERandPEM: sCertDir = /usr/local/platform/.security/tomcat/trust-certs --- sAlias =
CUCM861 ## cert file deleted. you need to remove it from key store 2014-08-02 23:36:46,225 INFO
[InsertThread --- 34] - IN -- TomcatCertMgr.java - removeFromKeyStore(..) - 2014-08-02
23:36:46,225 INFO [InsertThread --- 34] - IN -- RSACryptoEngine.java -
removeFromKeyStore(keystoreFile, keystorePass, alias) - 2014-08-02 23:36:46,225 INFO
[InsertThread --- 34] - IN -- RSACryptoEngine.java - loadKeyStore(keystoreFile, keystorePass) -
2014-08-02 23:36:46,232 INFO [InsertThread --- 34] - OUT -- RSACryptoEngine.java - loadKeyStore
- 2014-08-02 23:36:46,238 DEBUG [InsertThread --- 34] - Removing certificate from keystore :
CUCM861 2014-08-02 23:36:46,238 DEBUG [InsertThread --- 34] - Size of the keystore after delete
is : 2 2014-08-02 23:36:46,238 INFO [InsertThread --- 34] - OUT -- RSACryptoEngine.java -
removeFromKeyStore - 2014-08-02 23:36:46,238 INFO [InsertThread --- 34] - OUT --
TomcatCertMgr.java - removeFromKeyStore - 2014-08-02 23:36:46,239 INFO [InsertThread --- 34] -
trustdir :/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,239 INFO
[InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,239 DEBUG
[InsertThread --- 34] - Executing command from Util.sysExec : python
/usr/local/platform/bin/c_rehash.py /usr/local/platform/.security/tomcat/trust-certs 2014-08-02
23:36:46,295 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,295
INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java - setOwnershipAndPermissions(file) -
2014-08-02 23:36:46,295 DEBUG [InsertThread --- 34] - setOwnershipAndPermissions : trust-certs
2014-08-02 23:36:46,296 DEBUG [InsertThread --- 34] - Changing ownership of file
'/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,296 INFO [InsertThread --
- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,296 DEBUG [InsertThread ---
34] - Executing command from Util.sysExec : /bin/chown -R certbase
/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,299 INFO [InsertThread ---
34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,299 DEBUG [InsertThread --- 34] -
Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02
23:36:46,299 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02
23:36:46,299 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chgrp -R
ccmbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,302 INFO
[InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,302 DEBUG [InsertThread
--- 34] - Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02
23:36:46,302 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02
23:36:46,302 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chmod -R
755 /usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,306 INFO [InsertThread
--- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,306 INFO [InsertThread --- 34] - OUT
-- DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-02 23:36:46,306 INFO [InsertThread
--- 34] - OUT -- DefaultCertMgr.java - deleteCert - 2014-08-02 23:36:46,306 INFO [InsertThread -
- 34] - OUT -- CertDBUtil.java - deleteTrustCertInFileSystem - ## certificate will be
reimported to the filesystem now into /usr/local/platform/.security/tomcat/trust-certs 2014-08-
02 23:36:46,306 INFO [InsertThread --- 34] - IN -- CertDBUtil.java -
importTrustCertInFileSystem.. unit : tomcat 2014-08-02 23:36:46,306 INFO [InsertThread --- 34] -
IN -- CertDBUtil.java - populateOpInfo(operation, unit, type, fileLocation, x509Cert,
isDBInsert) - 2014-08-02 23:36:46,306 INFO [InsertThread --- 34] - loading certificate element
named [tomcat-trust] 2014-08-02 23:36:46,306 INFO [InsertThread --- 34] - determining
certificates in group [product-cpi] with type [trust-certs] 2014-08-02 23:36:46,306 INFO
[InsertThread --- 34] - loading the config file [/usr/local/platform/conf/cert-conf.xml] 2014-
08-02 23:36:46,308 INFO [InsertThread --- 34] - looking for first [trust-certs] in [product-cpi]
2014-08-02 23:36:46,308 INFO [InsertThread --- 34] - loaded element [tomcat-trust] 2014-08-02
23:36:46,308 INFO [InsertThread --- 34] - determining key dir for [tomcat-trust] 2014-08-02
23:36:46,308 INFO [InsertThread --- 34] - looking for first [key-dir] in [tomcat-trust] 2014-08-
02 23:36:46,308 INFO [InsertThread --- 34] - getting the value of [key-dir] 2014-08-02
23:36:46,308 INFO [InsertThread --- 34] - value is [/usr/local/platform/.security/tomcat/keys]
2014-08-02 23:36:46,308 INFO [InsertThread --- 34] - key dir is
```

```
[/usr/local/platform/.security/tomcat/keys] 2014-08-02 23:36:46,308 INFO [InsertThread --- 34] -
loading certificate element named [tomcat-trust] 2014-08-02 23:36:46,308 INFO [InsertThread ---
34] - determining certificates in group [product-cpi] with type [trust-certs] 2014-08-02
23:36:46,308 INFO [InsertThread --- 34] - loading the config file
[/usr/local/platform/conf/cert-conf.xml] 2014-08-02 23:36:46,310 INFO [InsertThread --- 34] -
looking for first [trust-certs] in [product-cpi] 2014-08-02 23:36:46,310 INFO [InsertThread ---
34] - loaded element [tomcat-trust] 2014-08-02 23:36:46,310 INFO [InsertThread --- 34] -
determining cert dir for [tomcat-trust] 2014-08-02 23:36:46,310 INFO [InsertThread --- 34] -
looking for first [dir] in [tomcat-trust] 2014-08-02 23:36:46,310 INFO [InsertThread --- 34] -
getting the value of [dir] 2014-08-02 23:36:46,310 INFO [InsertThread --- 34] - value is
[/usr/local/platform/.security/tomcat/trust-certs] 2014-08-02 23:36:46,310 INFO [InsertThread --
- 34] - cert dir is [/usr/local/platform/.security/tomcat/trust-certs] 2014-08-02 23:36:46,310
INFO [InsertThread --- 34] - OUT -- CertDBUtil.java - populateOpInfo - 2014-08-02 23:36:46,310
INFO [InsertThread --- 34] - IN -- CertMgr.java - getCertMgrObj(unit) - tomcat-trust ## again CM
API is called to perform this task 2014-08-02 23:36:46,310 INFO [InsertThread --- 34] - OUT --
CertMgr.java - getCertMgrObj - com.cisco.cpi.certMgmt.manager.TomcatCertMgr@1bbe9f 2014-08-02
23:36:46,310 INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java - importCert(info) - decode:
true op: import unit: tomcat-trust keystoreUnit:tomcat-trust logFile:
/var/log/active/platform/log/cert-mgmt.log resultFile: /var/log/active/platform/log/certde-
info.xml keyDir: /usr/local/platform/.security/tomcat/keys certDir:
/usr/local/platform/.security/tomcat/trust-certs srcCert: null type: trust-certs rootCACert:
null trustDir: null DNAME: null description:null isDBInsert:false 2014-08-02 23:36:46,310 DEBUG
[InsertThread --- 34] - Checking validity of cert 2014-08-02 23:36:46,310 INFO [InsertThread ---
34] - Verifying certificate L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL 2014-08-02
23:36:46,310 INFO [InsertThread --- 34] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) -
2014-08-02 23:36:46,310 DEBUG [InsertThread --- 34] - parseCNfromDN( certSubjDN:
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL') 2014-08-02 23:36:46,310 DEBUG
[InsertThread --- 34] - Truncating CN 'CUCM861,OU=TAC,O=CISCO,C=PL' -> 'CUCM861' 2014-08-02
23:36:46,310 INFO [InsertThread --- 34] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-02
23:36:46,310 DEBUG [InsertThread --- 34] - Parsed CN 'CUCM861' from DN
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL' 2014-08-02 23:36:46,311 INFO
[InsertThread --- 34] - trying to load cert from trust store
::/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem 2014-08-02 23:36:46,311 INFO
[InsertThread --- 34] - cert not available in trust store
::L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL 2014-08-02 23:36:46,311 INFO
[InsertThread --- 34] - IN -- DefaultCertMgr.java - importTrustCert(info, cert) - 2014-08-02
23:36:46,311 INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java - saveToTrustStore(info,
cert) - 2014-08-02 23:36:46,311 ERROR [InsertThread --- 34] - trust directory parameter is null
2014-08-02 23:36:46,311 INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java -
saveTrustCert(cert, targetDir, certType) - 2014-08-02 23:36:46,311 INFO [InsertThread --- 34] -
IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-02 23:36:46,311 DEBUG
[InsertThread --- 34] - parseCNfromDN( certSubjDN:
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL') 2014-08-02 23:36:46,311 DEBUG
[InsertThread --- 34] - Truncating CN 'CUCM861,OU=TAC,O=CISCO,C=PL' -> 'CUCM861' 2014-08-02
23:36:46,311 INFO [InsertThread --- 34] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-02
23:36:46,311 DEBUG [InsertThread --- 34] - Parsed CN 'CUCM861' from DN
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL' 2014-08-02 23:36:46,311 INFO
[InsertThread --- 34] - IN -- CertUtil.java - parseCNfromDN(DN, sSearchStr) - 2014-08-02
23:36:46,312 DEBUG [InsertThread --- 34] - parseCNfromDN( certSubjDN:
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL') 2014-08-02 23:36:46,312 DEBUG
[InsertThread --- 34] - Truncating CN 'CUCM861,OU=TAC,O=CISCO,C=PL' -> 'CUCM861' 2014-08-02
23:36:46,312 INFO [InsertThread --- 34] - OUT -- CertUtil.java - parseCNfromDN - 2014-08-02
23:36:46,312 DEBUG [InsertThread --- 34] - Parsed CN 'CUCM861' from DN
'L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL' 2014-08-02 23:36:46,312 DEBUG
[InsertThread --- 34] - target filename for imported cert: 'CUCM861.pem' 2014-08-02 23:36:46,312
DEBUG [InsertThread --- 34] - existing certificate with same filename not found. ## saving cert
as PEM and DER formats 2014-08-02 23:36:46,312 DEBUG [InsertThread --- 34] - Saving PEM encoded
cert '/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem' 2014-08-02 23:36:46,312 INFO
[InsertThread --- 34] - IN -- CryptoUtil.java - saveAsPEM(..) - File :
/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem 2014-08-02 23:36:46,313 INFO
[InsertThread --- 34] - OUT -- CryptoUtil.java - saveAsPEM - 2014-08-02 23:36:46,313 DEBUG
[InsertThread --- 34] - Saving DER encoded cert '/usr/local/platform/.security/tomcat/trust-
certs/CUCM861.der' 2014-08-02 23:36:46,314 INFO [InsertThread --- 34] - OUT --
DefaultCertMgr.java - saveTrustCert - ## saving new certificate into keystore 2014-08-02
```

23:36:46,314 INFO [InsertThread --- 34] - IN -- TomcatCertMgr.java - saveToKeyStore(..) - 2014-08-02 23:36:46,314 INFO [InsertThread --- 34] - IN -- RSACryptoEngine.java - saveToKeyStore(keystoreFile, keystorePass, x509Certificate, alias) - 2014-08-02 23:36:46,314 INFO [InsertThread --- 34] - IN -- RSACryptoEngine.java - loadKeyStore(keystoreFile, keystorePass) - 2014-08-02 23:36:46,323 INFO [InsertThread --- 34] - OUT -- RSACryptoEngine.java - loadKeyStore - 2014-08-02 23:36:46,323 INFO [InsertThread --- 34] - Size of the keystore before import is : 2 2014-08-02 23:36:46,323 INFO [InsertThread --- 34] - Importing certificate : CUCM861 2014-08-02 23:36:46,330 INFO [InsertThread --- 34] - Size of the keystore after import is : 3 2014-08-02 23:36:46,330 INFO [InsertThread --- 34] - OUT -- RSACryptoEngine.java - saveToKeyStore - 2014-08-02 23:36:46,330 INFO [InsertThread --- 34] - OUT -- TomcatCertMgr.java - saveToKeyStore - 2014-08-02 23:36:46,330 DEBUG [InsertThread --- 34] - TrustCert description filename : 'CUCM861.description' 2014-08-02 23:36:46,330 INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java - createDescriptionFile(name, description) - 2014-08-02 23:36:46,330 INFO [InsertThread --- 34] - description is :Trust Certificate 2014-08-02 23:36:46,331 INFO [InsertThread --- 34] - OUT -- DefaultCertMgr.java - createDescriptionFile - 2014-08-02 23:36:46,331 INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java - setOwnershipAndPermissions(file) - 2014-08-02 23:36:46,331 DEBUG [InsertThread --- 34] - setOwnershipAndPermissions : CUCM861.description 2014-08-02 23:36:46,331 DEBUG [InsertThread --- 34] - Changing ownership of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM861.description' 2014-08-02 23:36:46,331 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,331 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chown certbase /usr/local/platform/.security/tomcat/trust-certs/CUCM861.description 2014-08-02 23:36:46,334 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,334 DEBUG [InsertThread --- 34] - Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM861.description' 2014-08-02 23:36:46,334 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,334 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chgrp ccmbase /usr/local/platform/.security/tomcat/trust-certs/CUCM861.description 2014-08-02 23:36:46,337 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,337 DEBUG [InsertThread --- 34] - Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs/CUCM861.description' 2014-08-02 23:36:46,337 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,337 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chmod 755 /usr/local/platform/.security/tomcat/trust-certs/CUCM861.description 2014-08-02 23:36:46,339 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,339 INFO [InsertThread --- 34] - OUT -- DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-02 23:36:46,339 INFO [InsertThread --- 34] - OUT -- DefaultCertMgr.java - saveToTrustStore - 2014-08-02 23:36:46,340 INFO [InsertThread --- 34] - trustdir :/usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,340 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,340 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : python /usr/local/platform/bin/c_rehash.py /usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,425 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,425 INFO [InsertThread --- 34] - IN -- DefaultCertMgr.java - setOwnershipAndPermissions(file) - 2014-08-02 23:36:46,425 DEBUG [InsertThread --- 34] - setOwnershipAndPermissions : trust-certs 2014-08-02 23:36:46,426 DEBUG [InsertThread --- 34] - Changing ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,426 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,426 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chown -R certbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,429 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,429 DEBUG [InsertThread --- 34] - Changing group ownership of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,429 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,430 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chgrp -R ccmbase /usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,433 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,433 DEBUG [InsertThread --- 34] - Changing mode of file '/usr/local/platform/.security/tomcat/trust-certs' 2014-08-02 23:36:46,433 INFO [InsertThread --- 34] - IN -- Util.java - sysExec(exe, args) - 2014-08-02 23:36:46,433 DEBUG [InsertThread --- 34] - Executing command from Util.sysExec : /bin/chmod -R 755 /usr/local/platform/.security/tomcat/trust-certs 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OUT -- Util.java - sysExec - 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OUT -- DefaultCertMgr.java - setOwnershipAndPermissions - 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - No plugins registered for DB Store 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - IN -- CryptoUtil.java - isOCSPEnabled(..) - 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - IN -- CryptoUtil.java - getCertMonitorXmlParser(..) - 2014-08-02 23:36:46,437 INFO

[InsertThread --- 34] - OUT -- CryptoUtil.java - getCertMonitorXmlParser - 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OUT -- CryptoUtil.java - isOCSPEnabled - false 2014-08-02 23:36:46,437 DEBUG [InsertThread --- 34] - OCSP is not enabled. 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - Successfully imported trusted certificate with Subject DN:L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OUT -- DefaultCertMgr.java - importTrustCert - Successfully imported trusted certificate with Subject DN:L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL **## import ends with success, some additional checks are performed below** 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - result of import operations is ::Import of trust certificate is successful 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OUT -- DefaultCertMgr.java - importCert - 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OUT -- CertDBUtil.java - importTrustCertInFileSystem - 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OUT -- CertDBUtil.java - checkDeleteAndImport - 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - UNIT : tomcat-trust 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - CurrentIPAddress : 10.48.46.30 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - RemoteIPAddress : 10.48.46.29 2014-08-02 23:36:46,437 INFO [InsertThread --- 34] - OldSerialNo :6cf5bc855b681f658f9e7506d3ec6ea5 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - NewSerialNo :42c86b2cf293630fe27bbddc7fd02a39 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - IN -- CertUtil.java - getListFromComaSeperatedStr(..) - 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - OUT -- CertUtil.java - getListFromComaSeperatedStr - 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - tomcat-trust --- is included unit for CN 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - IN -- CertUtil.java - loadCertFromString(cert) - 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - OUT -- CertUtil.java - loadCertFromString - 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - IN -- CertDBUtil.java - checkDeleteAndImport(unit, dbCert) - 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - DB CertInfo.--SN:88769680872451706773275250466208361017-- SubjectDN:L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL--GetNotBefore:Sat Aug 02 23:36:44 CEST 2014--GetNotAfter:Thu Aug 01 23:36:43 CEST 2019 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - loading certificate element named [tomcat-trust] 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - determining certificates in group [product-cpi] with type [trust-certs] 2014-08-02 23:36:46,438 INFO [InsertThread --- 34] - loading the config file [/usr/local/platform/conf/cert-conf.xml] 2014-08-02 23:36:46,441 INFO [InsertThread --- 34] - looking for first [trust-certs] in [product-cpi] 2014-08-02 23:36:46,441 INFO [InsertThread --- 34] - loaded element [tomcat-trust] 2014-08-02 23:36:46,441 INFO [InsertThread --- 34] - determining cert dir for [tomcat-trust] 2014-08-02 23:36:46,441 INFO [InsertThread --- 34] - looking for first [dir] in [tomcat-trust] 2014-08-02 23:36:46,441 INFO [InsertThread --- 34] - getting the value of [dir] 2014-08-02 23:36:46,441 INFO [InsertThread --- 34] - value is [/usr/local/platform/.security/tomcat/trust-certs] 2014-08-02 23:36:46,441 INFO [InsertThread --- 34] - cert dir is [/usr/local/platform/.security/tomcat/trust-certs] 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/VeriSign_Class_3_Secure_Server_CA_-_G3.description] match is false 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.description] match is false 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/VeriSign_Class_3_Secure_Server_CA_-_G3.pem] match is true 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/VeriSign_Class_3_Secure_Server_CA_-_G3.der] match is true 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore] match is false 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.der] match is true 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/CUCM861.der] match is true 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/CUCM861.description] match is false 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/7e0370f0.0] match is false 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/d0aacffb.0] match is false 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/101f99a6.0] match is false 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/CUCM861.pem] match is true 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - [/usr/local/platform/.security/tomcat/trust-certs/CUCM861s.pem] match is true 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - IN -- RSACryptoEngine.java - loadCertificate(..) -

```

2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - OUT -- RSACryptoEngine.java -
loadCertificate - 2014-08-02 23:36:46,442 INFO [InsertThread --- 34] - IN --
RSACryptoEngine.java - loadCertificate(..) - 2014-08-02 23:36:46,443 INFO [InsertThread --- 34]
- OUT -- RSACryptoEngine.java - loadCertificate - 2014-08-02 23:36:46,443 DEBUG [InsertThread --
- 34] - SUBJECTDN of DBCert and FileSystemCert compared correctly.. 2014-08-02 23:36:46,443
DEBUG [InsertThread --- 34] - Certificate already exists in FileSystem.. 2014-08-02 23:36:46,443
INFO [InsertThread --- 34] - IN -- RSACryptoEngine.java - loadCertificate(..) - 2014-08-02
23:36:46,443 INFO [InsertThread --- 34] - OUT -- RSACryptoEngine.java - loadCertificate - 2014-
08-02 23:36:46,443 INFO [InsertThread --- 34] - OUT -- CertDBUtil.java - checkDeleteAndImport -
2014-08-02 23:36:46,443 INFO [InsertThread --- 34] - tomcat-trust Certificate successfully
updated in trust-store by Change Notification.. 2014-08-02 23:36:46,443 INFO [InsertThread ---
34] - OUT -- CertKeystoreHandler.java - updateIntoKeystore - 2014-08-02 23:36:46,443 DEBUG
[InsertThread --- 34] - InsertThread --- 34 -- END -- 2014-08-02 23:36:46,443 INFO [InsertThread
--- 34] - OUT -- CertKeystoreHandler.java - run -

```

Usted puede reconfirmar arriba en el filesystem del suscriptor. la Tomcat-confianza para el pub se ha puesto al día bajo confianza-CERT (fecha de la modificación del control).

```



[root@CUCM861s tomcat]# pwd
/usr/local/platform/.security/tomcat [root@CUCM861s tomcat]# ls -la certs total 48 drwxr-xr-x 2
certbase ccmbase 4096 Aug 2 22:51 . drwxr-xr-x 5 root root 4096 Apr 4 14:33 .. -rwxr-xr-x 1
certbase ccmbase 941 Aug 2 22:51 tomcat.der -rwxr-xr-x 1 certbase ccmbase 64 Aug 2 22:51
tomcat.description -rwxr-xr-x 1 certbase ccmbase 2598 Aug 2 22:51 tomcat.keystore -rwxr-xr-x 1
certbase ccmbase 1330 Aug 2 22:51 tomcat.pem [root@CUCM861s tomcat]# ls -la trust-certs total
108 drwxr-xr-x 2 certbase ccmbase 4096 Aug 2 23:36 . drwxr-xr-x 5 root root 4096 Apr 4 14:33 ..
lrwxrwxrwx 1 certbase ccmbase 11 Aug 2 23:36 101f99a6.0 -> CUCM861.pem lrwxrwxrwx 1 certbase
ccmbase 42 Aug 2 23:36 7e0370f0.0 -> VeriSign_Class_3_Secure_Server_CA_-_G3.pem -rwxr-xr-x 1
certbase ccmbase 939 Aug 2 23:36 CUCM861.der -rwxr-xr-x 1 certbase ccmbase 44 Aug 2 23:36
CUCM861.description -rwxr-xr-x 1 certbase ccmbase 1326 Aug 2 23:36 CUCM861.pem -rwxr-xr-x 1
certbase ccmbase 941 Aug 2 22:51 CUCM861s.der -rwxr-xr-x 1 certbase ccmbase 44 Aug 2 22:51
CUCM861s.description -rwxr-xr-x 1 certbase ccmbase 1330 Aug 2 22:51 CUCM861s.pem lrwxrwxrwx 1
certbase ccmbase 12 Aug 2 23:36 d0aacffb.0 -> CUCM861s.pem -rwxr-xr-x 1 certbase ccmbase 3907
Aug 2 23:36 tomcat-trust.keystore -rwxr-xr-x 1 certbase ccmbase 1520 Apr 4 14:33
VeriSign_Class_3_Secure_Server_CA_-_G3.der -rwxr-xr-x 1 certbase ccmbase 44 Apr 4 14:33
VeriSign_Class_3_Secure_Server_CA_-_G3.description -rwxr-xr-x 1 certbase ccmbase 2114 Apr 4
14:33 VeriSign_Class_3_Secure_Server_CA_-_G3.pem [root@CUCM861s tomcat]# md5sum trust-
certs/CUCM861.der a0dd8031bcd3c269844df8a3fafd476c trust-certs/CUCM861.der

```


Finalmente usted puede verificar el certificado de la Tomcat-confianza del pub bajo el GUI. El GUI nos mostrará el certificado que se lean en el filesystem, no base de datos.

Show ▾ Settings ▾ Security ▾ Software Upgrades ▾ Services ▾ Help ▾

Certificate Configuration

 Delete
  Download

Status

 Status: Ready

Certificate Settings

File Name	CUCM861.pem
Certificate Name	tomcat-trust
Certificate Type	trust-certs
Certificate Group	product-cpi
Description	Trust Certificate

Certificate File Data

```

[
  Version: V3
  Serial Number: 88769680872451706773275250466208361017
  SignatureAlgorithm: SHA1withRSA (1.2.840.113549.1.1.5)
  Issuer Name: L=KRAKOW, ST=MALOPOLSKA, CN=CUCM861, OU=TAC, O=CISCO, C=PL
  Validity From: Sat Aug 02 23:36:44 CEST 2014
  To: Thu Aug 01 23:36:43 CEST 2019
  Subject Name: L=KRAKOW, ST=MALOPOLSKA, CN=CUCM861, OU=TAC, O=CISCO, C=PL
  Key: RSA (1.2.840.113549.1.1.1)
  Key value:
  3082010a0282010100b46ce5c17323962babf797a031ecda073e02163e38f79600766c439fb1dd35d7891439fd2b88c9de9514b6
  f00fa42db0511eca717a9b7996558b6d5c7d5df6b97b338fc8f3524c78c5129495f19a56dd3436549ff338061844b99c93989a5f92
  0ac76cd245ebb2f38e0f0ca1ced2df87f8dd7f37c8f16561fc7a61d64a01f218eb6a23e56c95e91747299602b58e4512f37778028fd
  260029cc5def003768969c096b39880e677a2a008eb7517379717b5d45fb4ce8b9486921ef8828b58ec8348b2b41c34420401b4a
  28e4ee32b4c76dc8d590324d6774ac68f1a4ef54a0d6c277527ec4dc0223ea1457b152bd88c1178b0cedaa9c518512d3f92bae22
  d432b0203010001
  Extensions: 3 present
  [
    Extension: KeyUsage (OID.2.5.29.15)
    Critical: false
    Usages: digitalSignature, keyEncipherment, dataEncipherment, keyAgreement, keyCertSign,
  ]
  [
    Extension: ExtKeyUsageSyntax (OID.2.5.29.37)
    Critical: false
    Usage oids: 1.3.6.1.5.5.7.3.1, 1.3.6.1.5.5.7.3.2, 1.3.6.1.5.5.7.3.5,
  ]
]
  
```

Eso termina el proceso del certificado regenerado del tomcat en el nodo del editor y propaga este cambio a través del cluster.

5. Troubleshooting

5.A. Advertencias conocidas - clasificación

Debajo de usted puede encontrar una lista de defectos comunes que se relacionen con los Certificados y el CM.

A. Relacionado con la propagación incorrecta de un cambio en los Certificados:

[CSCu178787](#) - No puede borrar la confianza Certs de CM 9.1 incluso después la detención del servicio de CertCN

[CSCto86463](#) - Los Certificados borrados reaparecen, incapaz de quitar los Certificados de CUCM

[CSCth79451](#) - Las entradas del certificado DB deben ser actualizadas mientras que cambian hostname/IP

[CSCup28852](#) - llame por teléfono reajustan cada 7min debido a la actualización CERT al usar el CERT multiservidor

B. Encontró durante las operaciones DR:

[CSCtn50405](#) - El respaldo CUCM DRF hace no los Certificados de reserva

[CSCtt95983](#) - El backup'd del certificado del CAPF no/restableció con DRF

[CSCup71297](#) - Actualización incorrecta del certificado después del restore DR

C. Diverso y doc.:

[CSCup54818](#) - certs del [DOC] firmados por CA (tamaño de clave >=4096) no soportado en el modo mezclado

[CSCud49047](#) - RTMT opción para descargar los registros de servicio de la notificación de cambio del certificado

[CSCup88555](#) - Necesidad de validar la longitud del número de serie mientras que carga el nuevo CERT

5.B. Inclina y engaña

a. Hay una tabla en la base de datos que hace juego los enums al tipo correspondiente del certificado. Usted puede ver estos enums muy a menudo en las interrogaciones relacionadas certificate DB (registros CM/certCN, tabla CERTIFICATESERVICECERTIFICATEMAP). Para conseguir que asociándole necesite hechar una ojeada TYPECERTIFICATESERVICE

```
admin:run sql select * from TYPECERTIFICATESERVICE
enum name                               moniker                               usestruststore
====  =====
1    Phone-trust                          CERTIFICATE_SERVICE_PHONE_TRUST      t
2    Phone-VPN-trust                       CERTIFICATE_SERVICE_PHONE_VPN_TRUST  t
3    CallManager                           CERTIFICATE_SERVICE_CALLMANAGER      f
4    CallManager-trust                     CERTIFICATE_SERVICE_CALLMANAGER_TRUST t
5    tomcat                                CERTIFICATE_SERVICE_TOMCAT           f
6    tomcat-trust                          CERTIFICATE_SERVICE_TOMCAT_TRUST     t
7    ipsec                                 CERTIFICATE_SERVICE_IPSEC            f
8    ipsec-trust                           CERTIFICATE_SERVICE_IPSEC_TRUST      t
9    CAPF                                  CERTIFICATE_SERVICE_CAPF             f
10   CAPF-trust                             CERTIFICATE_SERVICE_CAPF_TRUST       t
11   TVS                                    CERTIFICATE_SERVICE_TV               f
12   TVS-trust                             CERTIFICATE_SERVICE_TV               t
13   directory-trust                       CERTIFICATE_SERVICE_DIRECTORY_TRUST  t
14   Phone-SAST-trust                       CERTIFICATE_SERVICE_PHONE_SAST_TRUST  t
15   Phone-CTL-trust                       CERTIFICATE_SERVICE_PHONE_CTL_TRUST   t
16   userlicensing-trust                   CERTIFICATE_SERVICE_USERLICENSING_TRUST t
```

b. Consideremos que usted necesita preguntar el DB y enumerar todos los Certificados. La interrogación debe volver el pkid y número de serie del certificado, IP y el Nombre del nodo, tipo del certificado y su asunto. Marque por favor el abajo:

```
ejecute sql CERTIFICATE.pkid selecto, CERTIFICATE.serialnumber,
CERTIFICATEPROCESSNODEMAP.ipv4address,
CERTIFICATEPROCESSNODEMAP.servername, TYPECERTIFICATESERVICE.name,
subjectname del CERTIFICADO del unido interno CERTIFICATEPROCESSNODEMAP EN
```


CERTIFICATEPROCESSNODEMAP.fkcertificate=CERTIFICATE.pkid que el unir a interno
 CERTIFICATESERVICECERTIFICATEMAP EN
 CERTIFICATESERVICECERTIFICATEMAP.fkcertificate=CERTIFICATE.pkid SE UNE A
 TYPECERTIFICATESERVICE EN la orden
 TYPECERTIFICATESERVICE.enum=CERTIFICATESERVICECERTIFICATEMAP.tkcertificateser
 vice por CERTIFICATEPROCESSNODEMAP.servername

El resultado de la muestra que usted puede encontrar adentro debajo del snippet.

```
admin:run sql select CERTIFICATE.pkid, CERTIFICATE.serialnumber,
CERTIFICATEPROCESSNODEMAP.ipv4address, CERTIFICATEPROCESSNODEMAP.servername,
TYPECERTIFICATESERVICE.name, subjectname from CERTIFICATEPROCESSNODEMAP inner join CERTIFICATE
ON CERTIFICATEPROCESSNODEMAP.fkcertificate=CERTIFICATE.pkid inner join
CERTIFICATESERVICECERTIFICATEMAP ON
CERTIFICATESERVICECERTIFICATEMAP.fkcertificate=CERTIFICATE.pkid JOIN TYPECERTIFICATESERVICE ON
TYPECERTIFICATESERVICE.enum=CERTIFICATESERVICECERTIFICATEMAP.tkcertificateservice order by
CERTIFICATEPROCESSNODEMAP.servername
pkid                serialnumber                ipv4address  servername
name                subjectname
=====
=====
=====
=====
===
e380b725-19b1-e3ec-71bf-1bb106d3d454 6a6967b3000000000003      10.48.46.29 CUCM861
CAPF-trust          CN=Cisco Manufacturing CA,O=Cisco Systems
cc7b18b3-3a50-3dcb-578a-1ca50e076198 17226b84000000000012      10.48.46.29 CUCM861
CallManager-trust
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL,2.5.4.5=#134034346262356539376665336362306
23932373966633933332636639373830303863623132316337356532316231623263663234616537656237363963323
935
664b66c9-485c-aedf-9848-ed34616b8fe7 1461af2a00000000000a      10.48.46.29 CUCM861
CallManager-trust
CN=TVGRTHC501,1.2.840.113549.1.9.2=#130a54564752544843353031,1.2.840.113549.1.9.8=#130d31302e313
0362e36352e323130,2.5.4.5=#130b46474c3137343732353241
cc7b18b3-3a50-3dcb-578a-1ca50e076198 17226b84000000000012      10.48.46.29 CUCM861
Phone-SAST-trust
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL,2.5.4.5=#134034346262356539376665336362306
23932373966633933332636639373830303863623132316337356532316231623263663234616537656237363963323
935
0c879119-476e-c608-049c-03710c47cdd2 5a82be1ec30346af4c295fb8fc41a7f7 10.48.46.29 CUCM861
CallManager-trust CN=ciscolab-AD-CA,DC=cisco,DC=lab
a2735f97-cbc0-81f6-dadf-c145b657b22e 59dacc01be1dbe84541bc8193a09267e 10.48.46.29 CUCM861
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-91e6eb10,OU=TAC,O=CISCO,C=PL
311830a0-8b8d-2216-7037-f60940976dcd 353fb24bd70f14a346c1f3a9ac725675 10.48.46.29 CUCM861
CallManager-trust CN=CAP-RTP-002,O=Cisco Systems
a2735f97-cbc0-81f6-dadf-c145b657b22e 59dacc01be1dbe84541bc8193a09267e 10.48.46.29 CUCM861
CAPF
L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-91e6eb10,OU=TAC,O=CISCO,C=PL
3fb48b23-84e7-cecf-dd24-e38cbd32c20f 6249ccbdf4df00155ddcd482dac43e6 10.48.46.29 CUCM861
Phone-SAST-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
a2735f97-cbc0-81f6-dadf-c145b657b22e 59dacc01be1dbe84541bc8193a09267e 10.48.46.29 CUCM861
CAPF-trust
L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-91e6eb10,OU=TAC,O=CISCO,C=PL
311830a0-8b8d-2216-7037-f60940976dcd 353fb24bd70f14a346c1f3a9ac725675 10.48.46.29 CUCM861
CAPF-trust
CN=CAP-RTP-002,O=Cisco Systems
07849796-ff87-eee3-ef89-61f368b3e34a 7f325a657ab1316fbd8334b565e55033 10.48.46.29 CUCM861 TVS
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
9cbcb782-c37d-6f63-7608-2f51a683ceb6 609bf431ad462fe12b4c571866458dee 10.48.46.29 CUCM861
ipsec
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
33a86281-4f7e-2833-0c4e-12a9259b5fea 484c2e9b1996a63e45e57dc067d68ec2 10.48.46.29 CUCM861
Phone-SAST-trust L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL
9cbcb782-c37d-6f63-7608-2f51a683ceb6 609bf431ad462fe12b4c571866458dee 10.48.46.29 CUCM861
ipsec-trust
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
```

b98fc2a9-ffc1-31b2-f793-701a4b4b59c4 6cdbac937a099bf9eaf8324de5440ff4 10.48.46.29 CUCM861
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-0087c0a5,OU=TAC,O=CISCO,C=PL
533dbbfc-78ce-b46f-7d64-cd2b7c536f6d 42c86b2cf293630fe27bbddc7fd02a39 10.48.46.29 CUCM861
tomcat L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
a6b18f66-bf72-261d-8ecd-bfcea02add4e 68052e2e9cd6c979079e6449ff873031 10.48.46.29 CUCM861
tomcat L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
533dbbfc-78ce-b46f-7d64-cd2b7c536f6d 42c86b2cf293630fe27bbddc7fd02a39 10.48.46.29 CUCM861
tomcat-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
6fe4bd7d-76fe-1d19-4e5e-9cfa4f073487 692c45e5f81da30a779e73907e17ef7f 10.48.46.29 CUCM861
CAPF-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-8480bdc7,OU=TAC,O=CISCO,C=PL
839d761f-f8e8-695b-bf1d-d08ce93b621e 6ecc7aa5a7032009b8cebcf4e952d491 10.48.46.29 CUCM861
tomcat-trust CN=VeriSign Class 3 Secure Server CA - G3,OU=Terms of use at
https://www.verisign.com/rpa (c)10,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
a6b18f66-bf72-261d-8ecd-bfcea02add4e 68052e2e9cd6c979079e6449ff873031 10.48.46.29 CUCM861
tomcat-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
3c241de1-2eec-e63a-667c-c07147e298d5 5ff87b282b54dc8d42a315b568c9adff 10.48.46.29 CUCM861
CallManager-trust CN=Cisco Root CA 2048,O=Cisco Systems
6fe4bd7d-76fe-1d19-4e5e-9cfa4f073487 692c45e5f81da30a779e73907e17ef7f 10.48.46.29 CUCM861
CAPF L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-8480bdc7,OU=TAC,O=CISCO,C=PL
3c241de1-2eec-e63a-667c-c07147e298d5 5ff87b282b54dc8d42a315b568c9adff 10.48.46.29 CUCM861
CAPF-trust CN=Cisco Root CA 2048,O=Cisco Systems
6fe4bd7d-76fe-1d19-4e5e-9cfa4f073487 692c45e5f81da30a779e73907e17ef7f 10.48.46.29 CUCM861
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-8480bdc7,OU=TAC,O=CISCO,C=PL
5a4e9685-e9c4-dc52-586d-a36c927208b5 7612f960153d6f9f4e42202032b72356 10.48.46.29 CUCM861
CallManager-trust CN=CAP-RTP-001,O=Cisco Systems
3cf492fa-e88e-e751-040e-c31827870353 4a5d72eb7de2768c9d70260c8e3b4096 10.48.46.29 CUCM861
CallManager L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
5a4e9685-e9c4-dc52-586d-a36c927208b5 7612f960153d6f9f4e42202032b72356 10.48.46.29 CUCM861
CAPF-trust CN=CAP-RTP-001,O=Cisco Systems
3cf492fa-e88e-e751-040e-c31827870353 4a5d72eb7de2768c9d70260c8e3b4096 10.48.46.29 CUCM861
Phone-SAST-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
e380b725-19b1-e3ec-71bf-1bb106d3d454 6a6967b3000000000003 10.48.46.29 CUCM861
CallManager-trust CN=Cisco Manufacturing CA,O=Cisco Systems
3cf492fa-e88e-e751-040e-c31827870353 4a5d72eb7de2768c9d70260c8e3b4096 10.48.46.29 CUCM861
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
cc7b18b3-3a50-3dcb-578a-1ca50e076198 17226b84000000000012 10.48.46.29 CUCM861
CallManager
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL,2.5.4.5=#134034346262356539376665336362306
23932373966633933332636639373830303863623132316337356532316231623263663234616537656237363963323
935
cc7b18b3-3a50-3dcb-578a-1ca50e076198 17226b84000000000012 10.48.46.30 CUCM861s
CallManager-trust
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL,2.5.4.5=#134034346262356539376665336362306
23932373966633933332636639373830303863623132316337356532316231623263663234616537656237363963323
935
cc7b18b3-3a50-3dcb-578a-1ca50e076198 17226b84000000000012 10.48.46.30 CUCM861s
Phone-SAST-trust
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL,2.5.4.5=#134034346262356539376665336362306
23932373966633933332636639373830303863623132316337356532316231623263663234616537656237363963323
935
a2735f97-cbc0-81f6-dadf-c145b657b22e 59dacc01be1dbe84541bc8193a09267e 10.48.46.30 CUCM861s
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-91e6eb10,OU=TAC,O=CISCO,C=PL
a2735f97-cbc0-81f6-dadf-c145b657b22e 59dacc01be1dbe84541bc8193a09267e 10.48.46.30 CUCM861s
CAPF L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-91e6eb10,OU=TAC,O=CISCO,C=PL
a2735f97-cbc0-81f6-dadf-c145b657b22e 59dacc01be1dbe84541bc8193a09267e 10.48.46.30 CUCM861s
CAPF-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-91e6eb10,OU=TAC,O=CISCO,C=PL
9cbcb782-c37d-6f63-7608-2f51a683ceb6 609bf431ad462fe12b4c571866458dee 10.48.46.30 CUCM861s
ipsec L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
9cbcb782-c37d-6f63-7608-2f51a683ceb6 609bf431ad462fe12b4c571866458dee 10.48.46.30 CUCM861s
ipsec-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
533dbbfc-78ce-b46f-7d64-cd2b7c536f6d 42c86b2cf293630fe27bbddc7fd02a39 10.48.46.30 CUCM861s
tomcat L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
533dbbfc-78ce-b46f-7d64-cd2b7c536f6d 42c86b2cf293630fe27bbddc7fd02a39 10.48.46.30 CUCM861s
tomcat-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL

```

839d761f-f8e8-695b-bf1d-d08ce93b621e 6ecc7aa5a7032009b8cebcf4e952d491 10.48.46.30 CUCM861s
tomcat-trust CN=VeriSign Class 3 Secure Server CA - G3,OU=Terms of use at
https://www.verisign.com/rpa (c)10,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
3c241de1-2eec-e63a-667c-c07147e298d5 5ff87b282b54dc8d42a315b568c9adff 10.48.46.30 CUCM861s
CallManager-trust CN=Cisco Root CA 2048,O=Cisco Systems
3c241de1-2eec-e63a-667c-c07147e298d5 5ff87b282b54dc8d42a315b568c9adff 10.48.46.30 CUCM861s
CAPF-trust CN=Cisco Root CA 2048,O=Cisco Systems
5a4e9685-e9c4-dc52-586d-a36c927208b5 7612f960153d6f9f4e42202032b72356 10.48.46.30 CUCM861s
CallManager-trust CN=CAP-RTP-001,O=Cisco Systems
5a4e9685-e9c4-dc52-586d-a36c927208b5 7612f960153d6f9f4e42202032b72356 10.48.46.30 CUCM861s
CAPF-trust CN=CAP-RTP-001,O=Cisco Systems
e380b725-19b1-e3ec-71bf-1bb106d3d454 6a6967b3000000000003 10.48.46.30 CUCM861s
CallManager-trust CN=Cisco Manufacturing CA,O=Cisco Systems
cc7b18b3-3a50-3dcb-578a-1ca50e076198 17226b84000000000012 10.48.46.30 CUCM861s
CallManager
CN=CUCM861,OU=TAC,O=CISCO,L=KRAKOW,ST=MALOPOLSKA,C=PL,2.5.4.5=#134034346262356539376665336362306
23932373966633933332636639373830303863623132316337356532316231623263663234616537656237363963323
935
3cf492fa-e88e-e751-040e-c31827870353 4a5d72eb7de2768c9d70260c8e3b4096 10.48.46.30 CUCM861s
Phone-SAST-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
664b66c9-485c-aedf-9848-ed34616b8fe7 1461af2a000000000000a 10.48.46.30 CUCM861s
CallManager-trust
CN=TVGRTHC501,1.2.840.113549.1.9.2=#130a54564752544843353031,1.2.840.113549.1.9.8=#130d31302e313
0362e36352e323130,2.5.4.5=#130b46474c3137343732353241
6fe4bd7d-76fe-1d19-4e5e-9cfa4f073487 692c45e5f81da30a779e73907e17ef7f 10.48.46.30 CUCM861s
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-8480bdc7,OU=TAC,O=CISCO,C=PL
3cf492fa-e88e-e751-040e-c31827870353 4a5d72eb7de2768c9d70260c8e3b4096 10.48.46.30 CUCM861s
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
6fe4bd7d-76fe-1d19-4e5e-9cfa4f073487 692c45e5f81da30a779e73907e17ef7f 10.48.46.30 CUCM861s
CAPF L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-8480bdc7,OU=TAC,O=CISCO,C=PL
3cf492fa-e88e-e751-040e-c31827870353 4a5d72eb7de2768c9d70260c8e3b4096 10.48.46.30 CUCM861s
CallManager L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
6fe4bd7d-76fe-1d19-4e5e-9cfa4f073487 692c45e5f81da30a779e73907e17ef7f 10.48.46.30 CUCM861s
CAPF-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-8480bdc7,OU=TAC,O=CISCO,C=PL
648651b6-f175-8307-7d19-810061b27eed 7da8a70fe1b3a9bebe2f85000498d935 10.48.46.30 CUCM861s
ipsec L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
0c27516c-bb4e-dc88-0bb9-f672394b265f 5de78d9912f1d88be14b2472c6eb1865 10.48.46.30 CUCM861s TVS
L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
b98fc2a9-ffc1-31b2-f793-701a4b4b59c4 6cdbac937a099bf9eaf8324de5440ff4 10.48.46.30 CUCM861s
CallManager-trust L=KRAKOW,ST=MALOPOLSKA,CN=CAPF-0087c0a5,OU=TAC,O=CISCO,C=PL
a6b18f66-bf72-261d-8ecd-bfcea02add4e 68052e2e9cd6c979079e6449ff873031 10.48.46.30 CUCM861s
tomcat-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
a6b18f66-bf72-261d-8ecd-bfcea02add4e 68052e2e9cd6c979079e6449ff873031 10.48.46.30 CUCM861s
tomcat L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861s,OU=TAC,O=CISCO,C=PL
33a86281-4f7e-2833-0c4e-12a9259b5fea 484c2e9b1996a63e45e57dc067d68ec2 10.48.46.30 CUCM861s
Phone-SAST-trust L=Krakow,ST=Malopolska,CN=CUCM9X,OU=TAC,O=Cisco Systems,C=PL
311830a0-8b8d-2216-7037-f60940976dcd 353fb24bd70f14a346c1f3a9ac725675 10.48.46.30 CUCM861s
CAPF-trust CN=CAP-RTP-002,O=Cisco Systems
3fb48b23-84e7-cecf-dd24-e38cbd32c20f 6249ccbedf4df00155ddcd482dac43e6 10.48.46.30 CUCM861s
Phone-SAST-trust L=KRAKOW,ST=MALOPOLSKA,CN=CUCM861,OU=TAC,O=CISCO,C=PL
311830a0-8b8d-2216-7037-f60940976dcd 353fb24bd70f14a346c1f3a9ac725675 10.48.46.30 CUCM861s
CallManager-trust CN=CAP-RTP-002,O=Cisco Systems
0c879119-476e-c608-049c-03710c47cdd2 5a82be1ec30346af4c295fb8fc41a7f7 10.48.46.30 CUCM861s
CallManager-trust CN=ciscolab-AD-CA,DC=cisco,DC=lab
e380b725-19b1-e3ec-71bf-1bb106d3d454 6a6967b30000000000003 10.48.46.30 CUCM861s
CAPF-trust CN=Cisco Manufacturing CA,O=Cisco Systems

```

Sobre puede ser muy útil cuando el Troubleshooting publica con sincronizar el certificado entre el DB y el filesystem.

c. Para marcar la fecha del vencimiento del certificado usted puede utilizar el comando del OpenSSL (requiere la raíz):

Salida de ejemplo:

```
[root@CUCM861 certs]# openssl x509 -noout -dates -in tomcat.pem notBefore=Aug 2 21:36:44 2014 GMT notAfter=Aug 1 21:36:43 2019 GMT [root@CUCM861 certs]#
```

d. Para marcar lo mismo que arriba pero para saber si hay el certificado que reside en la base de datos usted necesitan conocer el número de serie o PKID del certificado que usted quiere verificar. La tarea requiere para funcionar con dos comandos del golpe (usted necesita hacer al "su - informix" anterior esto).

```
la generación de eco "descarga delimitador "cert_dumped_to_file al"" "certificado selecto del certificado adonde número de serie = '6a6967b3000000000003'"|dbaccess - e ccm9_1_2_10000_28
```

Sobre la voluntad cree un archivo **cert_dumped_to_file** donde la salida del comando sql será salvada. El asunto importante es utilizar el nombre correcto de la base de datos. Usted puede encontrarlo en la herramienta de los dbaccess (mientras que selecciona la conexión DB).

Utilizan al comando second de visualizar la fecha:

```
sed "\\\g s" cert_dumped_to_file | openssl x509 -noout - fechas
```

Salida de ejemplo:

```
[root@CUCM861 certs]# su - informix
-bash-3.2$ echo "unload to 'cert_dumped_to_file' delimiter " " select certificate from certificate where serialnumber = '6a6967b3000000000003'"|dbaccess -e ccm9_1_2_10000_28 Database selected. unload to 'cert_dumped_to_file' delimiter select certificate from certificate where serialnumber = '6a6967b3000000000003' 1 row(s) unloaded. Database closed. -bash-3.2$ sed 's/\\//g' cert_dumped_to_file | openssl x509 -noout -dates notBefore=Jun 10 22:16:01 2005 GMT notAfter=May 14 20:25:42 2029 GMT
```

5.C. Verificación del certificado del servicio de CCM

El CallManager como servicio tiene que verificar el certificado del cliente para el apretón de manos successful TLS/SSL con el teléfono o el gateway.

Los errores se pueden encontrar en las trazas SDL/SDI así como el código de error que refiere a la biblioteca del OpenSSL:

```
00370874.000 |09:50:27.713 |AppInfo |SdISSTCPLListener:: verificación errno=20,depth=0 del verify_cb pre-verified=0,cert
00370875.000 |09:50:27.713 |AppInfo |HandleSSLERror - Verificación del certificado fallada: (Error de la verificación: 20)- incapaz de conseguir el certificado local del emisor para 192.168.255.95:52089
```

Lista de códigos de error del OpenSSL:

<https://www.openssl.org/docs/apps/verify.html#DIAGNOSTICS>

Cuando usted genera los certificados firmados de CA se aseguran de que estén generados con el uso dominante correcto como se solicita en el CSR, si no puede ser que no sean verificados correctamente:

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/cucos/8_6_1/cucos/osg_861_cm/iptpc_h6.html#wp1055278

CUCM utiliza la biblioteca del openssl para las operaciones del certificado así que usted puede verificar manualmente el certificado bajo raíz. El ejemplo para el certificado de Tomcat firmado por CA externo se presenta abajo:

```
[root@cucmpub trust-certs]# ls -l e87b20d3.0
lrwxrwxrwx 1 certbase ccmbase 31 Jul 8 00:01
e87b20d3.0 -> molszowy-WIN-V8HGEMMBHOU-CA.pem
```

```
[root@cucmpub trust-certs]# cd /usr/local/platform/.security/tomcat/certs
[root@cucmpub certs]# openssl verify -CApath /usr/local/platform/.security/tomcat/trust-certs
tomcat.pem
```

tomcat.pem: OK

5.D. Verificación del confianza-almacén y del keystore de Tomcat

Tomcat puede utilizar dos diversas implementaciones del SSL:

- la implementación JSSE proporcionada como parte del motor de ejecución Java (desde 1.4)
- la implementación de ABRIL, que utiliza el motor del OpenSSL por abandono.

Qué SSL-implementación es utilizada por Tomcat puede ser llegado archivo de configuración **server.xml** (situado en /usr/local/thirdparty/jakarta-tomcat/conf) bajo configuración del HTTPS-conector - los keystores son utilizados por JSSEIMPLEMENTATION, los Certificados en el PEM/la DER-forma son en abril implementación usada:

```
KeystoreFile falso verdadero falso " verdadero" del enableLookups= "" del
disableUploadTimeout= " del clientAuth= " del
ciphers="TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384,TLS_ECDHE_RSA_WITH_AES_12
8_GCM_SHA256,TLS_RSA_WITH_AES_256_CBC_SHA,TLS_DHE_DSS_WITH_AES_256_CBC_
SHA,TLS_RSA_WITH_AES_128_CBC_SHA,TLS_DHE_RSA_WITH_AES_128_CBC_SHA,SSL_R
SA_WITH_3DES_EDE_CBC_SHA,SSL_DHE_RSA_WITH_3DES_EDE_CBC_SHA" de
SSLEnabled= el URIEncoding="UTF-8" el acceptCount="100" del <Connector" = server=
verdadero" "el sessionTimeout="3600" el sslProtocol="TLSv1.2" sessionCacheSize="10000"/>"
del secure= " del " https del scheme=" /usr/local/platform/.security/tomcat/certs/tomcat.keystore" el
keystorePass="pPSTJpLa8QLuEpVp" el keystoreType="PKCS12" el maxHttpHeaderSize="8192"
el maxSpareThreads="150" el maxThreads="150" el minSpareThreads="25" el port="443" el
protocol="HTTP/1.1"
```

El certificado se presenta que cuando usted intenta iniciar la conexión a una de las aplicaciones de Web recibidas por Tomcat está situado en un keystore de las protegidas por contraseña:

/usr/local/platform/.security/tomcat/certs/tomcat.keystore

Este keystore se puede acceder con el utilite del OpenSSL para marcarlo está contento:

```
pkcs12 del openssl - en /usr/local/platform/.security/tomcat/certs/tomcat.keystore - Info -
contraseña file:/usr/local/platform/.security/tomcat/keys/tomcat.passphrase
```

La salida de proporcionado sobre el comando mostrará el certificado PEM-codificado de servicio del tomcat, y también una clave privada después de que los keystorePass sean ingresados en un prompt.

los servicios Tomcat-recibidos, que necesitan la verificación del certificado para las conexiones SSL salientes (tales como conexión segura al LDAP por el IMS), están utilizando tomcat-

trust.keystore como confianza-almacenamiento para la verificación de los Certificados presentados por el servidor durante el contacto SSL.

Ubicación de Truststore:

```
/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore
```

Consiga una lista de Certificados del confianza-almacén:

```
pkcs12 del openssl - en /usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore - Info -  
contraseña file:/usr/local/platform/.security/tomcat/keys/tomcat-trust.passphrase
```

Descargue los Certificados del confianza-almacén al archivo temporal y vealos de una vez:

```
pkcs12 del openssl - en /usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore - Info -  
contraseña file:/usr/local/platform/.security/tomcat/keys/tomcat-trust.passphrase 2>dev/null  
1>/root/tomcat-trust.pem
```

```
openssl crl2pkcs7 - nocrl - /root/tomcat-trust.pem certfile | openssl pkcs7 - print_certs - noout -  
texto
```

Si el certificado, que debe estar en el truststore, falta, puede ser importado al keystore:

```
keytool - importcert - archivo somecert.pem - pkcs12 del storetype - keystore  
/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore - storepass $ (gato  
/usr/local/platform/.security/tomcat/keys/tomcat-trust.passphrase)
```

Si se corrompe el confianza-almacén entero, puede ser restablecido con el script siguiente:

```
¡#! /bin/bash
```

```
milivoltio /usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore {, .bak}
```

```
passphrase=$ (gato /usr/local/platform/.security/tomcat/keys/tomcat-trust.passphrase)
```

```
para f en /usr/local/platform/.security/tomcat/trust-certs/ *.pem
```

```
haga
```

```
produzca eco "procesando $f"
```

```
/usr/local/thirdparty/java/j2sdk/bin/keytool - importcert - keystore
```

```
/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore - alias "$ (basename $  
{f%%.pem})" - noprompt - los storepass $passphrase - pkcs12 del storetype - providername
```

```
JsafeJCE - los providerclass com.rsa.jsafe.provider.JsafeJCE - providerpath
```

```
/usr/local/thirdparty/java/cryptojFIPS.jar - clasifíe "$f"
```

```
hecho
```

```
certbase del chown: ccmbase /usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore
```

```
chmod 755 /usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore
```

```
chcon --reference=/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore.bak
```

```
/usr/local/platform/.security/tomcat/trust-certs/tomcat-trust.keystore
```

El texto de un script se puede guardar en el archivo, y ejecutar de la manera siguiente:

```
golpe /root/truststore_repair.sh
```