Changing the SSL library in Mail Express also requires a change in how the SSL certificate is read by the Mail Express system. If you have a custom SSL certificate installed, follow these steps to manually update your keystore.

Note: If you have the DMZ Gateway licensed as part of your Mail Express installation, the keystore will automatically be updated. To verify, you can run this command:

1. Install OpenSSL

2. Make sure Java is in the system classpath (needed for the keytool utility)

3. Merge certificate and key into a single file:

   C:\OpenSSL-Win32\bin>openssl pkcs12 -export -in MailExpress.crt -inkey MailExpress.key -out keystore.p12 -name ==me-temp== -CAfile mecert.crt -caname root

4. Import new keystore file into existing Mail Express keystore:

   C:\Program Files (x86)\Globalscape\Mail Express\conf>keytool -importkeystore -srckeystore keystore.p12 -srcstoretype PKCS12 -destkeystore MailExpressKeyStore.jks -deststoretype JKS

5. Delete the previous Mail Express keystore alias:

   C:\Program Files (x86)\Globalscape\Mail Express\conf>keytool -delete -alias mailexpress-server -keystore MailExpressKeyStore.jks

6. Rename the new keystore alias:

   C:\Program Files (x86)\Globalscape\Mail Express\conf>keytool -changealias -alias ==me-temp==-destalias mailexpress-server -keystore MailExpressKeyStore.jks

   Note: the **-alias** value much match the **-name** value in step 3

7. Verify the keystore information:

   C:\Program Files (x86)\Globalscape\Mail Express\bin\jre1.7.0_25\bin>keytool -list -v -keystore "C:\Program Files (x86)\Globalscape\Mail Express\conf\MailExpressKeyStore.jks"

General Editing

Edit all APR connectors (generally 443 and 8443) to use JSSE connectors (example below). Items in RED are installation specific items that should be copied from the original APR connector.

```
<Connector
    address="localhost"
    port="8443"
    protocol="org.apache.coyote.http11.Http11NioProtocol"
    connectionTimeout="20000"
    keepAliveTimeout="20000"
    enableLookups="true"
    disableUploadTimeout="true"
    acceptCount="100"
```

```
        maxThreads="200"
        scheme="https"
        secure="true"
         algorithm="SunX509"
          clientAuth="false"
        keystoreFile="${catalina.home}\conf\MailExpressKeyStore.jks"
        keystorePass="mailexpress"
        keystoreType="JKS"
          sslProtocol="TLS"
          SSLEnabled="true"
        sslEnabledProtocols="SSLv2Hello,SSLv3,TLSv1"

ciphers="SSL_RSA_WITH_RC4_128_MD5,SSL_RSA_WITH_RC4_128_SHA,TLS_RSA_WIT
H_AES_128_CBC_SHA,TLS_RSA_WITH_AES_256_CBC_SHA,TLS_DHE_RSA_WITH_AES_12
8_CBC_SHA,TLS_DHE_RSA_WITH_AES_256_CBC_SHA,TLS_DHE_DSS_WITH_AES_128_CB
C_SHA,TLS_DHE_DSS_WITH_AES_256_CBC_SHA,SSL_RSA_WITH_3DES_EDE_CBC_SHA,S
SL_DHE_RSA_WITH_3DES_EDE_CBC_SHA,SSL_DHE_DSS_WITH_3DES_EDE_CBC_SHA"
        keyAlias="mailexpress-server"/>
```