Using iKEYMAN to create a certificate and convert it to KDB/STH format

The following instructions explain how to create a certificate on your system and convert it to the necessary formats.

To create, export, and convert a certificate, do the following:

- 1. Create a certificate using the instructions on the PKI Web site at the following URL: <u>https://pki.services.ibm.com/expedite</u>.
- 2. Export your certificate to files using the instructions on the Web site.
- 3. Launch iKeyman by clicking **Start** > **Programs** > *Expedite Base product* > **IKEYMAN**.
- 4. Click **Key database file** > **New**. The New window opens.

New		X
Key database type	CMS -	
File Name:	ibm1_acmeco.kdb	Browse
Location:	D:\exp6\ssl	
	OK Cancel	

- 5. From the **Key file type** list, select **CMS**.
- 6. Next to the **File Name** field, click **Browse** to locate the directory where you want to create the kdb file.

The Look in window opens.

7. After you select the directory and type the file name, click **Save**.

The New window opens, displaying the file name in the **File Name** field and the file location in the **Location** field. You can set the Location to the directory where you installed Expedite base. **Note:** Name the key database file according to the following naming convention: *yourIEaccount_yourIEuserid*.kdb.

8. Click OK.

The Password Prompt window opens.

Password Prompt	
Password: Confirm Password:	*****
Set expiration time?	60 Days
🗌 Stash the pa	ssword to a file?
Password Strength:	
OK Re	eset Cancel

9. In the **Password** and **Confirm Password** fields, type the password that you would like to use for accessing the key database file. It does not have to be the same password that you use for accessing your certificate.

This password is stored in the stash file. Make a note of this password so that you will be able to open the key database file in the future.

10. Click **OK**.

The IBM Key Management window opens.

11. In the Key database content section, select Personal Certificates.

ІВМ Кеу Ма	nagement - [C:\Documents and Settings\Jayson\key.kdb]	_ 0
y Database	<u>File C</u> reate <u>V</u> iew <u>H</u> elp	
	Key database information	
B-Type:	CMS key database file	
le Name:	C:\Documents and Settings\Jayson\key.kdb	
oken Label:		
	Key database content	
Personal Ce	rtificates 🗸 🗸	Receive
Personal Cei	tificates	
Signer Certif	icates	Delete
'ersonal Cei	Trincate Requests	View/Edit
		Import
		Recreate Request
		New Self-Signed
		Extract Certificate
ersonal cel	tincate has its associated private key in the database.	

12. Click Import.

The Import Key window opens.

Import Key.		
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		Ver
W WU WW W		

- 13. In the **Key file type** field, select **PKCS12**.
- 14. Click Browse.

The Import Key - Look in window opens.

🏽 🖉 Import Key	ı 🔀
Look <u>i</u> n:	■ ibmjre ▼ 🖬 🛱 🗂 🐯 🖿
🗋 install.gsk6l	bas
j2re-1_3_1_	_09-windows-i586.exe
j2re-1_4_2-	windows-i586-iftw.exe
🗋 java.security	/
🗋 jss.pfx	
🗋 readme.zip	
File <u>n</u> ame:	jss.pfx Open
Files of type:	All Files (*.*) Cancel

- 15. Navigate to the directory where you saved the certificate that you exported.
- 16. From the **Files of type** field, select **All Files** (*.*).
- 17. Select the **pfx** or **p12** file that you exported from the browser, and then click **Open**.
- 18. Click OK.

The Certificate log in window opens.

- 19. Type the same password that you used when exporting the certificate from the web browser, and then click **OK**.
- 20. When the following message displays, click **OK**. The IBM Key Management window opens.

Warning		X
	New trusted Signer Certificates have been added: 995998144cn=pki services root ca, ou=interchange services for e-business, o=ibm, c=us	
	OK	

21. If you prefer to use the KEYRINGSTASHFILE parameter instead of the KEYRINGPASSWORD parameter in Expedite Base for Windows, then you need to create a stash file. To create the stash file, click **KeyDatabaseFile > Stash Password**.

🚆 IBM Key Management	- [C:\Documents and Settings\Jayson\key.kdb]	_ 🗆 🛛	
Key Database File Create View Help			
<u>N</u> ew	🐅 🗔		
🚰 Open	Key database information		
Ne <u>w</u> Provider	itabase file		
Close	nts and Settings\Jayson\key.kdb		
Save As			
Change <u>P</u> assword	Key database content		
Stash Password		Bassin	
E <u>x</u> it	· · · · · · · · · · · · · · · · · · ·	Receive	
		Delete	
		View/Edit	
		Import	
		Recreate Request	
		New Colf Simod	
		new sen-signeu	
		Extract Certificate	
A personal certificate has	A personal certificate has its associated private key in the database.		

22. Close iKEYMAN.

This process is completed.

Attention: In Expedite Base for Windows, if you copy the KDB and STH files to a directory other than your Expedite root directory, you must specify the drive letter, full path and file name in the KEYRINGFILE or KEYRINGSTASHFILE parameter on the IDENTIFY command in basein.pro, or on the START command in basein.msg, or Expedite Base for Windows will not find the files. For moreinformation, refer to the Readme file in the Expedite Base for Windows program directory.