

This presentation will show you how to receive a CA signed certificate to use with Sterling Connect:Direct<sup>®</sup> for z/OS<sup>®</sup>. You will learn how to receive the CA signed certificate and import issuer certificates by using IBM GSKKYMAN, which is a component of z/OS.



Your certificate authority will return your signed certificate together with the issuer certificates. In this example, you have a root and one intermediate certificate that is part of the certificate chain. You will now add these certificates to your key database.



You must paste the contents of the signed certificate into a newly allocated text file. Copy from the beginning of the begin new certificate line to the end of the end new certificate line. Once pasted, press enter after the end of the last line and save the file.

You must then create further text files for each of the issuer certificates you receive from your certificate authority or CA. Then, you must transfer your certificates to your zSeries UNIX<sup>®</sup> System Services folder. Try to avoid the use of cut-and-paste instead of a transfer as pasting can be unreliable and introduce characters that will make the certificates unreadable.



To receive a CA signed certificate and import issuer certificates to a z/OS key database, you need to access the GSKKYMAN application by using UNIX System Services or USS. If you are not already in OMVS or GSKKYMAN, key in 6 on the command line to enter TSO or workstation commands and press enter.



On the ISPF Command Shell panel, key in OMVS to access UNIX System Services. Press enter to continue.

			IBM
Start the K	ey Database menu		
<ul> <li>Key in gskky</li> </ul>	man		
<ul> <li>ENTER</li> </ul>		IBM Licensed Material - Property of IBM 5694-A01 Copyright IBM Corp. 1993, 2011 (C) Copyright Mortice Kern Systems, Inc., 1985, 1996. (C) Copyright Software Development Group, University of Waterloo, 1989.	
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		and arkingan	
		ESC=¢ 1=Helo 2=SubCmd 3=HloRetrn 4=Top 5=Bottom 6=TSO	INPUT
		7=BackScr 8=Scroll 9=NextSess 10=Refresh 11=FwdRetr 12=Retr	leve
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On the UNIX System Services panel, enter gskkyman to display the GSKKYMAN application menu options.



From the Database Menu panel, you must select option 2 to open an existing database. Press enter to continue.



You will see a request to enter a key database name. You must key in the name for your existing key database and enter to continue. You can return to the Database Menu by leaving the field blank and press enter if you want to continue later.



You will now see a request to enter a database password. Key in the database password and press enter to continue.



You will now navigate to the key management menu in GSKKYMAN to import the issuer certificates and the newly requested certificate received from the certificate authority. Key in 7 to Import a certificate and press enter to continue.



You must start with the CA root certificate. Under Enter import file name, you will enter the name of the CA root certificate file. Press enter to continue.

		IBM
Enter CA	root label (1 of 2)	
<ul> <li>Key a label</li> </ul>	I for the CA root certificate	
Enter		Enter option number: 2 Enter key database name (press ENTER to return to menu): cdkdb Enter database password (press ENTER to return to menu): Key Management Menu Database: /u/wawrn1/cdkdb Enter database password 3 - Manage certificates 3 - Manage certificate requests 3 - Manage certificate requests 4 - Create new certificate request 5 - Create new certificate or a renewal certificate 6 - Create new certificate so a senewal certificate 7 - Import a certificate so a private key 9 - Show the default key 9 - Show the default key 9 - Show the default key 11 - Show database record length 0 - Exit program Enter option number (press ENTER to return to previous menu): 7 Enter import file name (press ENTER to return to menu): cdcaroot.txt Enter label (press ENTER to return to menu): cdcaroot.txt Enter label (press ENTER to return to menu): menu): cdcaroot.txt Enter label (press ENTER to return to menu): cdcaroot.txt Enter label (press ENTE
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You will then key in a label for your CA root certificate and press enter to continue.

		IBM
Enter CA	root label (2 of 2)	
<ul> <li>Certificate i</li> </ul>	mported message displayed	
Enter		Enter database password (press ENTER to return to menu): Key Management Menu Database: /u/awarni/cdkdb Expiration: None 1 - Manage certificates 2 - Manage certificates 3 - Manage certificates 3 - Manage certificate requests 4 - Create new certificate or a renewal certificate 6 - Create as eff-signed certificate 7 - Import a certificate and a private key 8 - Show the default key 9 - Show the default key 9 - Show the default key 9 - Show the database record length 11 - Show database record length 9 - Exit program Enter option number (press ENTER to return to previous menu): 7 Enter import faller hame (press ENTER to return to menu): dcdaroot.txt Enter label (press ENTER to return to menu): dcdaroot.txt Enter import d. Press ENTER to continue.
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You will then see a message that confirms that the certificate was imported successfully. Press enter to continue.



Once you import your CA root certificate, you will then import any other issuer certificates now. In the example, the intermediate certificate is imported.

	IBM
Receive new requested certificate	
<ul> <li>Key in 5 - Receive requested certificate or a renewal certificate</li> </ul>	Enter import file name (press ENTER to return to menul; cdchipt.tyt
Tenewar certificate	Enter label (press ENTER to return to menu): cdcaint
<ul> <li>Enter</li> </ul>	Certificate imported.
2.1.0.1	Press ENTER to continue.
	Key Management Menu         Database: /u/awarni/cdkdb         Expiration: Nome         1 = Manage certificates         2 = Manage certificate requests         3 = Manage certificate certificate or a renewal certificate         5 = Receive requested certificate or a renewal certificate         6 = Create a self-signed certificate or a renewal certificate         7 = Import a certificate         8 = Diport a certificate         9 = Show the default key         9 = Show database password         11 = Show database record length         12 = Show database record length         13 = Show database record length         14 = Show database record length         15 = Rectificate         16 = Exit program         Enter option number (press ENTER to return to previous menu):         10 = Store database assure         10 = Store database assure         11 = Show database record length         12 = Show database record length         13 = Show database record length         14 = Show database record length         15 = Show database record length         16 = Store database assure         17 = Show database record length         18 = Show database record length         19 = Show database record length         10 = Show databaser
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Once you imported the issuer certificates, you will use option 5 to receive the newly requested certificate. Key in 5 and press enter to continue.



Under Enter certificate name, you will key in the file name of the signed certificate. Press enter to continue.



You will see a certificate received message to confirm that your signed certificate was received successfully. Press enter to continue.



Once your certificate is received, you will now exit GSKKYMAN.

	IBM
Summary	
Import the issuer certificates	
<ul> <li>Receive the new signed certificate</li> </ul>	
<ul> <li>For more information, see modules         <ul> <li>"GSKKYMAN Part 1 - Creating a key database"</li> <li>"GSKKYMAN Part 2 - Creating a self-signed certificate"</li> <li>"GSKKYMAN Part 3 - Creating a new certificate request"</li> </ul> </li> </ul>	
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In this presentation, you learned how to receive a CA signed certificate. You can learn how to create a "certificate signing request" in module "GSKKYMAN Part 3 - create a new certificate request". Information about how to create a self-signed certificate can be found in module "GSKKYMAN Part 2 - Creating a Self-Signed Certificate". How to create a key database information is in module "GSKKYMAN Part 1 - Creating a Key Database".

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