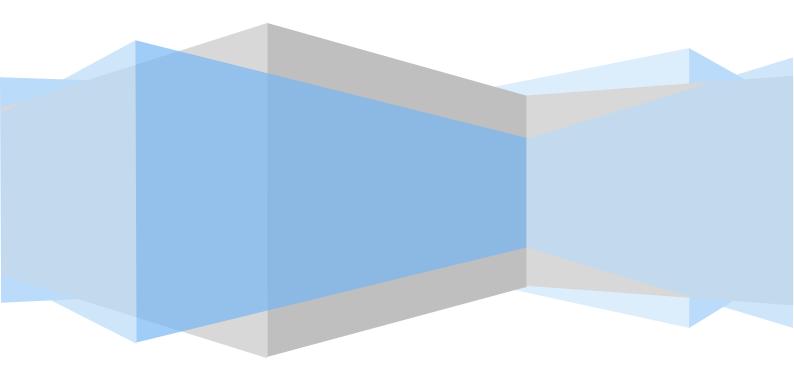


Anti-Money Laundering Council Manila, Philippines

Transaction Security Protocol Manual



Transaction Security Protocol

GUIDELINES

- A. The File Transfer and Reporting Facility using the Hypertext Transfer Protocol over Secure Socket Layer (FTRF v 2.0) shall be used by the CPs in transmitting their respective reports.
- B. Hypertext Transfer Protocol over Secure Socket Layer (HTTPS) is a private, secure and graphical method of accessing web page information and/or sending information across a web. It is especially useful for encrypting forms-based information as it passes between clients and servers. HTTPS which is implemented under the File Transfer and Reporting Facility (FTRF v 2.0) will address the efficiency, integrity and security concerns of data collection from the Covered Persons.
- C. File Transfer and Reporting Facility (FTRF) has the following features:
 - a. Secure upload provides data encryption, server authentication and message integrity;
 - b. Self-signed Digital Identification & Certificate allows encrypting and digital signing of messages; and
- D. The self-signed digital identification shall be implemented for all CPs. AMLC and the CPs shall use the Gnu Privacy Guard (GPG) software for their encryption and authentication and the GPG supported algorithm (MD5) for their signing. Installer of the said software shall be provided by AMLC upon registration.
- E. The compliance officer of the CP shall generate his private key as well as public key using GPG which shall be uploaded during the Online Registration.
- F. The signed public key of the AMLC shall be used by the CPs to:
 - a. Encrypt the electronic files (CTR/STR in csv format) to be submitted to AMLC; and
 - b. Verify the signature of the files they will receive from AMLC.
- H. The signed private key of the AMLC shall be used by AMLC to:
 - a. Decrypt the encrypted files sent by the CPs which were encrypted using AMLC's signed public key; and
 - b. Sign the electronic files they will send to the CPs.
- I. The signed public key of the CP shall be used by the AMLC to:
 - a. Encrypt the validation messages that AMLC will send to the CP; and
 - b. Verify the signature of the files AMLC will receive from the CPs.
- J. The signed private key of the CP shall be used by them to:
 - a. Decrypt the AMLC validation messages from AMLC; and
 - b. Sign the electronic files they will send to AMLC.

- K. CPs are required to encrypt and sign the electronic CTR/STR files before transmitting them to AMLC via https (AMLC portal).
- L. In cases wherein the public key is compromised, superseded or no longer in use, CPs should perform the recovery procedure, only if they have successfully performed the backup procedure of their existing private and public keys, to be able to continue to encrypt file. Otherwise, a new pair of public and private keys shall be generated and to be uploaded via the Online Registration System.

PROCEDURES:

1. Installing the GnuPG for Windows Software (Gpg4win 2.1.0)

- Download the gpg4win 2.1.0 from <u>www.amlc.gov.ph</u>, under Reporting Tools, then save this to your local drive.
- Double click gpg4win-2.1.0.exe. You will be asked if you want to allow the program to make changes in your computer.
- Click **Yes**. The Installer Language window will be displayed on the screen.
- Select *English*, then click **Ok**.



	Welcome to the installation of Gpg4win
	Gpg4win is a installer package for Windows for EMail and file encryption using the core componenent GnuPG for Windows. Both relevant cryptography standards are supported, OpenPGP and S/MIME. Gpg4win and the software included with Gpg4win are Free Software. Click Next to continue.
GPG	This is Gpg4win version 2.1.0 file version 2.1.0.1641 release date 2011-03-15

The Gpg4win Setup window will be displayed on the screen. Click **Next**.

	License Agreement This software is licensed under the terms of the GNU General Public License (GPL),
	Press Page Down to see the rest of the agreement.
ne License Agreement	GNU GENERAL PUBLIC LICENSE Version 2, June 1991
indow will be displayed on the screen. Click Next .	Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. Preamble
	The licenses for most software are designed to take away your
	In short: You are allowed to run this software for any purpose. You may distribute it as long as you give the recipients the same rights you have received.
	< <u>B</u> ack Next > Cancel

	Choose Components Choose which features of Gpg4w	in you want to install.
heck the components y Istall. Click Next to con	you want to install and uncheck the con tinue.	nponents you don't want to
elect components to in:	stall: V Kleopatra GPA V GpgOL V GpgEX Claws-Mail V Gpg4win Compendium	Description Position your mouse over a component to see its description,
pace required: 102.5M	B	

Select components to install. Check Kleopatra, GpgEX, and Gpg4win Compendium, then other uncheck components. Click Next.

	🚱 Gpg4win Setup
	Choose Install Location Choose the folder in which to install Gpg4win.
Specify destination folder, then, click Next .	Setup will install Gpg4win in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
 For 32 bit machine the default directory is C:\Program Files\GNU\GnuPG. 	Destination Folder C:\Program Files\GNU\GnuPG Space required: 101.0MB Space available: 123.0GB Nullsoft Install System v2:37-3 < Back

Gpg4win Setup		
	Choose Install Location Choose the folder in which to install Gpg4win.	
	win in the following folder. To install in a different folder, dick Browse der. Click Next to continue.	
		For 64 bit machine the default directory
Destination Folder	(x86)\GNU\GnuPG	directory is C:\Program Files (x86)\GNU\GnuPG.
Space required: 101.0 Space available: 237.9		
Nullsoft Install System v2	.37-3	





Choose Start Menu folder for the Gpg4win shortcuts. Enter **Gpg4win**, then click **Install**.

Please wait while Gpg4win is being installed.	Installing Please wait while Gpg4win is being installed. Extract: view-refresh.png Show details	
	Nullsoft Install System v2.37-3	

Gpg4win Setup	
Gree Completed Setup was completed successfully.	
La Completed	
Show <u>d</u> etails	Once the setup completed successfully, clic Next .
Nullsoft Install System v2.37-3	t > Cancel





Check

skip

2. Generation of Key Pairs (One time Procedure)

m your deskto	n 🗐	C.	findow <u>H</u> elp	Certificates on Server	
uble cli opatra . Th opatra ma	ne Find:	s T <u>r</u> usted Certificates <u>O</u>	ther Certificates	My Certificates	
idow will l	be Name	E-Mail Valid From	Valid Until	Details Key-	ID

File	View Certificates Tools Set	ings Window	Help		
	New Certificate	Ctrl+N		<i>8</i> %	
86	Lookup Certificates on Server	Ctrl+Shift+I	n Lookuj	p Certificates on Serv	rer
<u>a-19</u>	Import Certificates	Ctrl+I		My Certificate	es 👻
	Export Certificates	Ctrl+E	cates		×
Y W	Export Secret Keys	our e	Until	Details	Key-ID
	Export Certificates to Server	Ctrl+Shift+E			
R	Decrypt/Verify Files				
-	Sign/Encrypt Files				
	Create Checksum Files				
	Verify Checksum Files		-		
0	Close	Ctrl+W			
X	Quit	Ctrl+Q			

Click File, then select New Certificate.

Certificate Creation Wizard will be displayed on the screen. Click Create a personal OpenPGP key pair.

10	ose Certificate Format
ea	se choose which type of certificate you want to create.
•	<u>C</u> reate a personal OpenPGP key pair OpenPGP key pairs are created locally, and certified by your friends and acquaintances. There is no central certification authority; instead, every
•	Create <u>a</u> personal X.509 key pair and certification request X.509 key pairs are created locally, but certified centrally by a certification authority (CA). CAs can certify other CAs, creating a central, hierarchical chain of

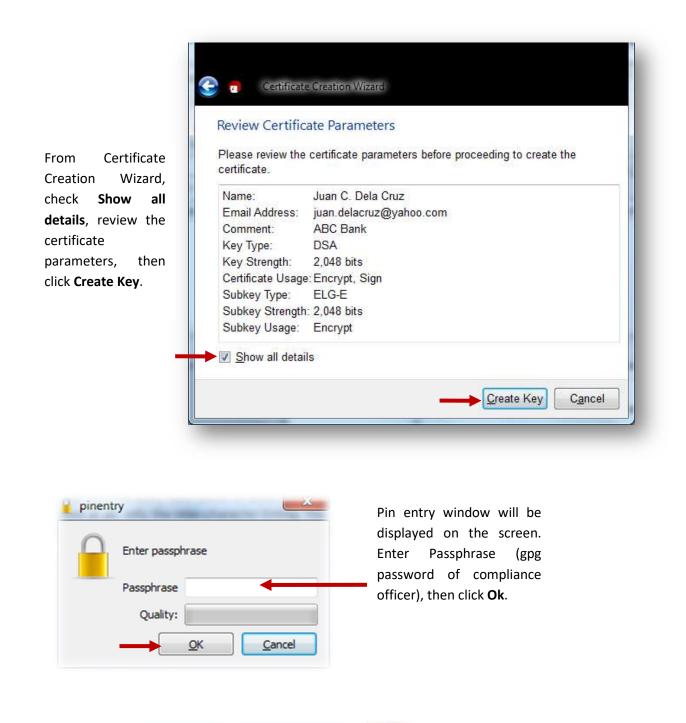
Enter Det Please ent	ertificate Creation Wizard ails er your personal details below. If you want mor parameters, click on the Advanced Settings bu		then Advance Settings.
Name:	Juan C. Dela Cruz	(required)	
EMail:	juan.delacruz@yahoo.com	(required)	
Comment:	ABC Bank	(optional)	
J	luan C. Dela Cruz (ABC Bank) <juan.delacruz(< th=""><th>@yahoo.com> Advanced Settings</th><th></th></juan.delacruz(<>	@yahoo.com> Advanced Settings	

Note:

Name – Name of Compliance Officer Email – Email address of Compliance Officer Comment – Name of the company

The Technical Details window	Technical Details Key Material
will be displayed	
on the screen.	● <u>D</u> SA 2,048 bits (default) →
5	✓ + Elgamal 2,048 bits (default) +
From Key Material, select	Certificate Usage
DSA: 2,048 bits	Signing Certification
(default).	Encryption <u>A</u> uthentication
Check + Elgamal :	<u> </u>
2,048 bits	
(default).	
(default). From Certificate Usage, check	
From Certificate	
From Certificate Usage, check <i>Signing,</i> <i>Encryption</i> and	
From Certificate Usage, check <i>Signing</i> ,	
From Certificate Usage, check <i>Signing,</i> <i>Encryption</i> and	

Enter Det			From	the
	er your personal details below. If you want more parameters, click on the Advanced Settings butto		Certificate Creation	Wizaro
Name:	Juan C. Dela Cruz	(required)	window,	clicl
EMail:	juan.delacruz@yahoo.com	(required)	Next.	
Comment:	ABC Bank	(optional)		
J		/ahoo.com> <u>A</u> dvanced Settings ext Cancel		



	pinentry
Re-enter passphrase, then click Ok .	Please re-enter this passphrase Passphrase
	<u>OK</u> <u>C</u> ancel

Please be reminded that once you forget your passphrase, you need to generate a new public key, since AMLC cannot retrieve the said passphrase.

Creating Key			
Your key is being	created.		
foster this proces The text itself wo	reating a key requires lar s, you can use the entry n't be used at all, only th r around with your mouse	/ field below to enter s ne inter-character timi	ome gibberish. 1g. You can also
T)			

Wait until the key pair is successfully created.

Key F	Pair Successfully Created
	new key pair was created successfully. Please find details on the rest ome suggested next steps below.
Res	ult
	tificate created successfully. gerprint: 7F2C0A8B90C6E4E83FFDFC4E09D7D50EBC5CC263
Nex	t Steps
	Make a Backup Of Your Key Pair
	Send Certificate By EMail
	Upload Certificate To Directory Service

Click Finish.

Exporting Public Key 3.

Import Certificates		av Stop Operation Loo ertificates	kup Certificates on	
My Certificate	Trusted Certificates	Other Certificates		
Name	E-Mail Valid Fr	rom Valid Until	Details	Key-ID
Juan C j	uan.delacru 2012-02-0	8	OpenPGP	BC5CC263

From your desktop, double click Kleopatra. The Kleopatra main window will be displayed on the screen. Click the name of the compliance officer, then click Export Certificates.

	Organize 🔻 New f	older	9== •	0
	4.7	* Name	Date modified	Туре
Select the directory where	libraries	🕌 bin	2/7/2012 2:49 PM	Filef
he public key is to be	Documents	🔲 🏨 etc	2/7/2012 2:49 PM	File f
 For 32 bit machine: 	J Music	🗉 🚺 lib	2/7/2012 2:49 PM	File f
	Pictures	📕 plugins	2/7/2012 2:49 PM	Filef
		🛄 pub	2/7/2012 2:49 PM	Filef
	Computer	🁪 share	5/9/2011 3:25 PM	File f
	Local Disk (C:)		2/7/2012 2:49 PM	Filef
c:\Program	New Volume (D:)	Juan Dela Cruz.gpg	2/8/2012 9:34 AM	GPG •
Files\GNU\GnuPG\ For 64 bit machine: c:\Program Files (x86)\GNU\GnuPG\	File <u>n</u> ame: 7F		Save Can	, , , ,

Note: The default filename of the public key is the key fingerprint.

Please be ready with the exported asc file as you will need this for **ONLINE REGISTRATION**

4. Saving AMLC public key

Get a copy of the AMLC public key (amlc.asc) from <u>www.amlc.gov.ph</u> under Reporting Tools then save this to your local drive.

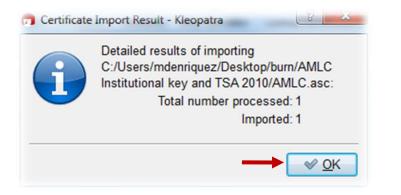
- For 32 bit machine: c:\Program Files\GNU\GnuPG\
- For 64 bit machine: c:\Program Files (x86)\GNU\GnuPG\

5. Importing of AMLC public key



Select the directory where you have saved the **AMLC.asc**, then click **Open**.

ganize 👻 New folder)= • E	1 6
🎉 PerfLogs 🔺	Name	Date modified	Туре
Adobe	🎍 bin 🍱 etc	2/7/2012 2:49 PM 3/7/2012 9:38 AM	File fo File fo
Business Obj	🎍 lib 👪 plugins 🎴 pub	2/7/2012 2:49 PM 2/7/2012 2:49 PM 2/7/2012 2:49 PM	File fo File fo File fo
🍶 Common File 退 Crystal Decisi 😼 DVD Maker	share translations	2/7/2012 2:49 PM 2/7/2012 2:49 PM 2/10/2012 10:55 AM	File fo File fo
📙 Globe Broadt	7F2C0A8B90C6E4E83FFDFC4E09D7D50EB AMLC.asc Amtricease	1/12/2010 12:52 PM	ASC F
🕌 Hummingbir 👻 🤞	al Juan Dela Cruz.qpg	2/8/2012 9:34 AM	GPG F
File <u>n</u> am	e: AMLC.asc 🗸 Cert	tificates (*.asc *.cer *.ce	rt *.c 🔻



The Certificate Import Result window will be displayed on the screen. Click **Ok**.

The imported public key will be displayed on Kleopatra — Imported Certificates tab.

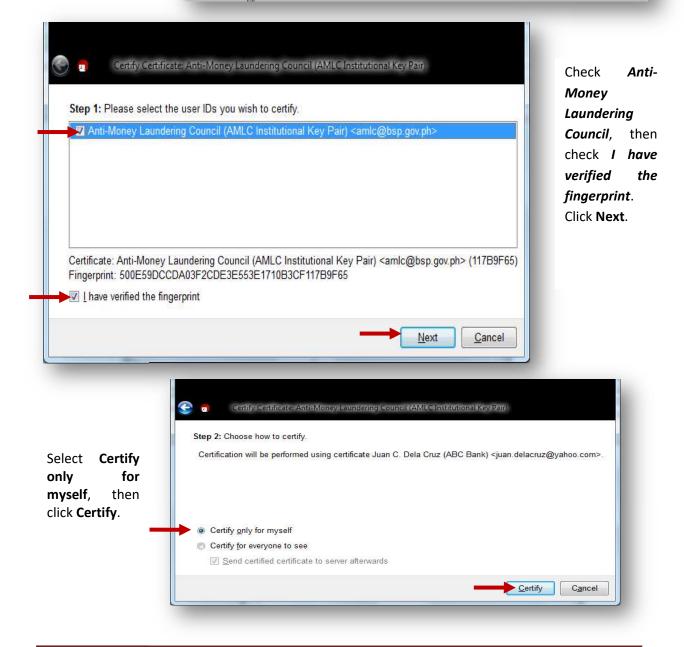
Import Certificates	s Export Certificate	C s Redisplay	Stop Operation	Kookup Certificates on Se	rver
Find:				AN ertificate	IS .
My Certifica	ates T <u>r</u> usted C	ertificates	Other Certificate	es Imported Certific	ates 🛛
Name	E-Mail	Valid Fro	om Valid Un	til Details	Key-ID
Anti-Mone	amlc@bsp.go				

6. Certifying AMLC Key

Import Certificates	Export Certificates	C Redisplay Sto	Deperation L	ookup Certificates on Serv	/er	From y desktop, dou
Find:				All Certificates		click Kleopatra
My Certificate	s Trusted Certifi	cates <u>O</u> th	er Certificates	Imported Certificat	tes	
Name	E-Mail \	/alid From	Valid Until	Details	Key-ID	From Kleopatra
Anti-Mone a	mlc@bsp.go 201	0-01-12		OpenPGP	117B9F65	main window,
						click Anti-Mon Laundering Council's public key.

Certificate.								
click C								
Certificates,								
	click							
the	menu							
	cates,							

File View	Cer	tificates	Tools	Settings	: Win	dow Help)			
Import Certific		Change Trust R				C) Operation	Loo	kup Certificates on	Server	
Find:		Distrust Root Certificate					All Certifica	ates		
My Cen	Land I	ertify Certificate			Certificat	es	Imported Certif	icates		
Name		Change	Expiry	Date		Valid U	ntil	Details	ł	Key-ID
Anti-Mone		Change Add Us		irase				OpenPGP	117B	9F65
	×	Delete			Del					
		Dump C	Certificat	e						
<i>.</i>					111					•



pinentry	X
Please enter the passphrase to unlock the secret key for the "Juan C. Dela Cruz (ABC Bank) <juan.delacruz@yahoo.com 2048-bit DSA key, ID BC5CC263, created 2012-02-08.</juan.delacruz@yahoo.com 	<pre>passphrase of compliance officer, then</pre>
Passphrase	click Ok .
<u></u> K	<u>C</u> ancel

	Summary:
ck	Signed user IDs: Anti-Money Laundering Council (AMLC Institutional Key Pair) <amlc@bsp.gov.ph></amlc@bsp.gov.ph>
ish.	Selected secret certificate: Juan C. Dela Cruz (ABC Bank) <juan.delacruz@yahoo.com></juan.delacruz@yahoo.com>
	Certification successful.

7. Backup Procedure

Make sure to do this procedure to ensure that you will not perform all the steps enumerated above in the event that your public key has been corrupted.

nport Certificates Ex	port Certificates Redispla	ay Stop Operation Loo	kup Certificates on S	erver	Kleop
d:			My Certificat	es 🔹	From I Certifi
My Certificates	Trusted Certificates	Other Certificates			tab, cl
Name	E-Mail Valid F	rom Valid Until	Details	Key-ID	name
Juan C jua	n.delacru 2012-02-0	0	OpenPGP	BC5CC263	key ov (Comp Office

From the menu bar, click **File** then select **Export Certificates.**

New Certificate	Ctrl+N	<i>i</i>				
Lookup Certificates on Server	Ctrl+Shift+I	n Lookup Certificates	on Server			
Import Certificates	Ctrl+l			My	Certificates	
🔒 Export Certificates 🍗	Ctrl+E	cates				
Export Secret Keys	GUITE	Valid From	Valid Until	Details	Key-ID	
Export Certificates to Server	Ctrl+Shift+E	g 2010-01-12		OpenPGP	117B9F65	
A Export Certificates to Cerver	Guirionnitie	1 2004-10-11		OpenPGP	4D0BDEE5	
Decrypt/Verify Files						
Sign/Encrypt Files						
Create Checksum Files						
Verify Checksum Files						
3 Close	Ctrl+W					

Computer > RLYN (G:)	✓ 4 Search RLYN (G:) 🔎
anize 🔻 New folder		= - 🕡
Documents Name	Date modified	Туре
Music		
Pictures No 1	tems match your search.	
Videos 👘		
Computer		
Local Disk (C:)		
RLYN (G:)		
Prive H (\\nasug		
IMAGAPPS (\\na		
🖉 CIs (\\legaspi\CS 👻 🔸	m	•
File name: back_up_publickey.asc	•	-
Save as type: OpenPGP Certificates (*.asc *.gpg *.pgp)	-	+

Select the directory where you want to save the backup of your public key (USB), by default filename is your fingerprint. (You have the option to change the filename) Click Save.

-12

57

On My Certificates tab, click the name of the key owner (Compliance Officer). 0

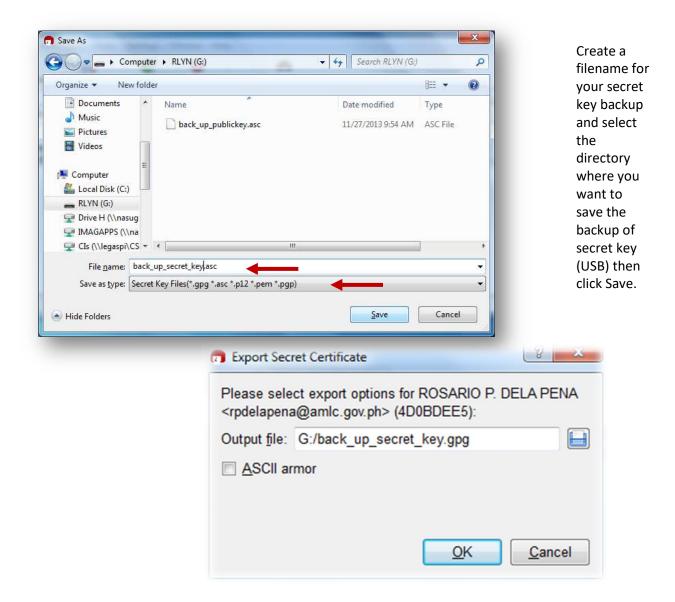
Import Certificates E	xport Certificates	C Redisplay	Stop Operation	Looku	p Certificates on S	Server	
ind:	102				My Certifica	ates	
My Certificates	Trusted Cert	ificates	Other Certificat	es			
Name	E-Mail	Valid Fro	m Valid U	ntil	Details	Key-ID	
Juan C jua	n.delacru 2	012-02-08			OpenPGP	BC5CC263	

File	View Certificates Tools Sett	ings Window	Help						
1	New Certificate	Ctrl+N		ø					
æ	Lookup Certificates on Server	Ctrl+Shift+I	n	Lookup Certificates o	n Server				
-	Import Certificates	Ctrl+I					My Certifica	ites	•
	Export Certificates	Ctrl+E	cate	IS .					×
	Export Secret Keys	GUITE		Valid From	Valid Until	Detai	ls	Key-ID	
	Export Certificates to Server	Ctrl+Shift+E	g	2010-01-12		OpenPGF) 117	7B9F65	
1046	Export Certificates to Certer	GUITGHILTE	h	2004-10-11		OpenPGF	9 4D0	DBDEE5	
R	Decrypt/Verify Files								
29	Sign/Encrypt Files								
	Create Checksum Files								
	Verify Checksum Files								
	Close	Ctrl+W							
0		Ctrl+Q							
	Quit								

From the menu bar, click File then select Export Secret Keys.

Export Secret Certificate	8 ×
Please select export options for <rpdelapena@amlc.gov.ph> (4D0</rpdelapena@amlc.gov.ph>	
Output file:	
ASCII armor	
	OK <u>C</u> ancel

Select the directory where you want to save the backup of your private key (USB) by clicking the diskette icon.



7. Recovery Procedure

This is done if the public key is compromised, only if the CPs have performed the back-up procedure for their private and public keys.

.	New Certificate	Ctrl+N	. 10	ookup Certificates on	Server			
*	Lookup Certificates on Server	Ctrl+Shift+I Ctrl+I	-				Trusted Certificates	
	Export Certificates	Ctrl+E	cates					
NA N	Export Secret Keys	UNTL	om	Valid Until	Details	Key-l	D	
4	Export Certificates to Server	Ctrl+Shift+E						
R	Decrypt/Verify Files							
	Sign/Encrypt Files							
	Create Checksum Files							
	Verify Checksum Files							
0	Close	Ctrl+W						
×	Quit	Ctrl+Q						

Follow the procedure in installing the GPG Software.

Once installed, Open Kleopatra then click File then Select Import Certificate.

	Computer	RLYN (G:)	 ✓ ✓ ✓ Search RLYN (G:) 	
ect the	Organize 👻 New folder		8==	• 🔟 🔞
ectory	🔛 Recent Places 🔺	Name	Date modified	Туре
ere the	🗃 Libraries	back_up_publickey.asc	11/27/2013 9:54 AM	ASC File
kup of r public (.asc) is ed then k Open.	Documents Music Pictures Videos Computer Local Disk (C:) RLYN (G:) Drive H (\\nasug	back_up_secret_key.gpg	11/27/2013 10:34	GPG File
	🖙 IMAGAPPS (\\na 👻 ∢			
	File <u>n</u> am	e: back_up_publickey.asc	✓ Certificates (*.asc *	.cer*.cert*.c 🔻

		Certificate
	Detailed results of importing K:/back_up_certificate.asc:	Import
	Total number processed: 1	Result
9	Imported. 1	window w
		appear th
		click Ok.

	New Certificate	Ctrl+N	<i>a</i> 6
8	Lookup Certificates on Server	Ctrl+Shift+I	n Lookup Certificates on Server
	Import Certificates	Ctrl+I	Trusted Certificates
164	Export Certificates	Ctrl+E	cates
	Export Secret Keys		om Valid Until Details Key-ID
12	Export Certificates to Server	Ctrl+Shift+E	
-	Decrypt/Verify Files		
-	Sign/Encrypt Files		
	Create Checksum Files		
	Verify Checksum Files		
0	Close	Ctrl+W	
	Quit	Ctrl+Q	

Transaction Security Protocol

rganize 🔻 🛛 New folder		88	• 🔟 🔞
🚺 Downloads 🖍	Name	Date modified	Туре
🖳 Recent Places	back_up_publickey.asc	11/27/2013 9:54 AM	ASC File
Libraries	back_up_secret_key.gpg	11/27/2013 10:34	GPG File
Videos Computer Local Disk (C:) RLYN (G:)	4 [
🖵 Drive H (\\nasug 🖕			

Select the directory where the backup of your private key (.gpg) is saved then click Open.

	Certificate Import Result - Kleopatra		
Certificate Import Result window will appear then click Ok.	1	Detailed results of importing G:/back_up_sec Total number processed: 1 Imported: 0 Secret certificates processed: 1 Secret certificates unchanged: 1	

Repeat Procedures 4-6 of the Transaction Security Protocol.