Instructions to generate a new PGP key pair for 4C Entity Adopters

4C Entity recommends **<u>Gpg4win</u>** version 4.1.0 (Released: 2022-12-20) for the generation of the PGP key pair. Type this address <u>http://www.4centity.com/resources/gpg4win-4.1.0.exe</u> on your address bar to download & install **<u>Gpg4win</u>**. Click through the installer until you get to the following screen.



- 1) Make sure that only GunPGP and Kleopatra are selected. Click next until the installer is finished
- 2) You will see this screen the first time you open GuPGP. Click on File then select New OpenPGP Key Pair



3) After you select New OpenPGP Key Pair, this dialog box appears



- 4) Enter the name and email address associated with this PGP key pair
- 5) Be sure to check Protect the generated key with a passphrase
- 6) Click on the Advanced settings button

7) After you click Advanced settings button, this new dialogue box appears

Advanced Settings	- Kleopatra ? 🗡
Technical Details	
Key Material	
<u>R</u> SA	2,048 bits ~
🖂 + RSA	2,048 bits ~
	2,048 bits 🗸
+ Elgamal	2,048 bits 🗸
O ECDSA/EdDSA	ed25519 ~
- + ECD <u>H</u>	cv25519 ~
Certificate Usage	
Signing	Certification
Encryption	<u>Authentication</u>
<u>Valid until: 1/1</u>	13/2025 🗸
	OK Cancel

- 8) Under Key Material select RSA and be sure the drop-down value is set to 2,048 bits
- 9) Be sure +RSA is also checked and the drop-down value is also set to 2,048 bits
- 10) Under Certificate Usage uncheck Valid Until, then click OK.
- 11) A new dialogue box appears. Enter your new passphrase twice as requested and click OK

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0	Please enter the passphrase to protect your new key							
	Passphrase:		•••••	•				
	Repeat:	•••••		•				
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- 12) Dialogue box with SUCCESS message appears. Now you have successfully created the PGP key.
- 13) Click OK to enable you to export your PGP Key.

👩 Suc	cess - Kleopatra	?	×
1	A new OpenPGP certificate was created successfully. Fingerprint of the new certificate: 676F 8F37 77F7 2A0B D417 64C5 FDF	^{:5} C576 7C30 <u>O</u> K	C EB95

- 14) To export your PGP Key, right click on Your Name
- 15) Select Export then choose a location and name to save your public key

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gn/Encrypt	Decrypt/Verify	Impor	t Export	Certify	Lookup on Server	Certificates	Notepad	Smartcards				
Search </td <td>Alt+Q></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>All C</td> <td>ertificates</td> <td></td> <td>Ň</td>	Alt+Q>								All C	ertificates		Ň
L. AIC	runcates	~										0
Name				E-Mail			User-IDs	Valid From Valid Until	Key-ID			
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16) Now you can send your new PGP public key by email to <u>4c-services@4c-entity.com</u>