a.- Generating the public and private key

- Using PuTTYGen (Windows)
 - Generate Key Pair using the PuTTYGen application
- Save the Key PairDelivery of the public key to WIPO

Using PuTTYGen (Windows)

PuTTYGen can be installed separately or together with WinSCP (Free Windows SFTP/SCP client)

(j)	It can be downloaded from :
	As part of WinSCP - downloaded from https://winscp.net/
	or
	PuTTYGen(alone) - download from https://www.puttygen.com/

After downloading the package, run it.

If you chose WinSCP, select your desired language and then select "Typical Installation", which includes PuTTYgen and Pageant. Follow the installation instructions.

Login		- 🗆 ×					
New Site		Sess File File SF Hos sft Use tes	ion protoco TP t name: p.wipo.ii r name: t Edi	l:	Password:	Port number	: 22
Tools 🔻	Manage 🗨	•		🔁 Login 🛛 🔻	Close	Help)
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Run PuTTYgen		3 hidd	en				
Check for Undates							
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Generate Key Pair using the PuTTYGen application

In both cases the PuTTYGen usage is the same, it is used to create the authentication keys as explained below:

- Select "RSA" for the "Type of key to generate", with 2048 bit key size or greater.
- Press the "Generate" button and follow the instructions on the screen.

😴 PuTTY Key Generator

File Key Conversions Help

No key.			
Actions			
Actions			
Actions Generate a public/private key pair			Generate
Actions Generate a public/private key pair Load an existing private key file			Generate
Actions Generate a public/private key pair Load an existing private key file Gave the generated key		Save public key	Generate Load
Actions Generate a public/private key pair Load an existing private key file Gave the generated key		Save public key	Generate Load Save private key
Actions Generate a public/private key pair Load an existing private key file Save the generated key Parameters		Save public key	Generate Load Save private key
Actions Generate a public/private key pair Load an existing private key file Save the generated key Parameters Type of key to generate:		Save public key	Generate Load Save private key
Actions Generate a public/private key pair Load an existing private key file Save the generated key Parameters Type of key to generate:	○ ECDSA	Save public key	Generate Load Save private key O SSH-1 (RSA)

Important Please note that, as indicated, you will not PuTTY Key Generator File Key Conversions Help Key Please generate some randomness by more	eed to move the m ving the mouse over	ouse cursor within the i the blank area.	ndicated area in order to complete de process
	الا الا الا		
Actions Generate a public/private key pair Load an existing private key file Save the generated key		Save p <u>u</u> blic key	<u>G</u> enerate Load Save private key
Parameters Type of key to generate: RSA Number of <u>b</u> its in a generated key:	⊖ <u>e</u> cdsa	⊖ EdD <u>S</u> A	O SSH- <u>1</u> (RSA) 2048

• When the key generation is complete, the screen looks like below:

PuTTY Key Generato	or		\times					
File Key Conversior	ns Help							
Key Public key for pasting in	nto OpenSSH authorize	d kevsfile:						
ssh-rsa AAAAB3NzaC1yc2EA rZeVG+XXh71afgr5Y2 +eoh2iX0K5lpNeBAw TJmLeM	AAABJQAAAQEAhEpw jBns2EqUxsh5WTe2x1 12e9t0/wMbiV2tJfxyCX	ssmps4nfw82LB/JBDL94 /n sZX1psA0wL2rRBOoOk	4PmIAW/zG/BgJi					
Key fingerprint:	ssh-rsa 2048 de:a6:d4	f8:4c:70.fc.fa:12:63:dd:	4d:05:87:dc:6b					
Key comment:	rsa-key-20190819							
Key passphrase:	Key passphrase:							
Confirm passphrase:	•••••							
Actions								
Generate a public/priva	ate key pair		Generate					
Load an existing private	e key file		Load					
Save the generated ke	у	Save public key	Save private key					
Parameters								
Type of key to generate	e: DSA O ECDS	SA O Ed25519	O SSH-1 (RSA)					
Number of bits in a gen	erated key:		2048					

• Enter a strong passphrase and remember it. You will be prompted to type it when you use this key. The passphrase is never sent to the remote server.

Save the Key Pair

- Press the "Save public key" button to save your public key. Name it using the suggested account name, with the extension ". pub" (Example: *ipob_jsmith.pub* or *ipob_cr.pub*)
 Press the "Save private key" button to save your private key. Give it the same name but with ".ppk"extention (*ipob_jsmith.ppk* or *ipob_cr.*
- ppk)

B	PuTTY I	Key Genera	tor					\times
Fil	e Key	Conversi	ons	Help				
	Key							
	Public ke	ey for pasting	into O	penSSH au	thorized_keys file:			
	ssh-rsa AAAAB3 /g5Sag/ sTPpHH +/ga03/	3NzaC1yc2E AOd8CWh91 Idue5nG0Q0 /BQ1wjAQo1	AAAA[MVL5Z DeoH6 Hstqy7)AQABAAA dMN1iymq8 s5YPhF8ZA 17Q4lb1/Gf	BAQDb92UplOhT9n0l TPFKxLMscF1v93MZ xCRCv0UF9tEgzqmSlr 2fF8rK4zx+B8tTP87rlm	.GJFaU7DI/RWhoN4Skw\ /nM/JoiBW2eLCU8mvYcX nf4LR1QhxAL1HXP1ALh2{ 0u6ntK2d9AGVDIG	/Bo08UdCNatpBvsJpvQ /m/fGSP8aRktocyBGnU 6o7vy3S+hwuDbl/Foh	^
	Key f <u>i</u> nge	erprint:	ssh-rs	a 2048 SHA	256:NvjkILv/zwm/zBl	FBONS3/vljPN1LzG9uDxl	LfT7hBTM	
	Key <u>c</u> om	ment:	rsa-ke	y-20240201				
	Key p <u>a</u> ss	phrase:	••••	•••••				
	C <u>o</u> nfirm p	assphrase:	••••	•••••				
	Actions							
	Generate	e a public/pri	vate ke	ey pair			<u>G</u> enerate	
	Load an	existing priva	ate key	file			<u>L</u> oad	
	Save the	generated l	key		<	Save p <u>u</u> blic key	Save private key	>
	Paramete	ers				1	2	
	Type of k	key to gener	ate: O[<u>)</u> SA	⊖ <u>e</u> cdsa	◯ EdD <u>S</u> A	○ SSH- <u>1</u> (RSA)	
	Number	of <u>b</u> its in a ge	enerate	d key:			2048	

If you view the public key with a text ed 1 BEGIN SSH2 PUBL 2 Comment: "rsa-key-20	litor, will look like something like this:
 1 BEGIN SSH2 PUBL 2 Comment: "rsa-key-202 	С КЕҮ
2 Comment: "rsa-key-202	
	200929"
3 AAAAB3NzaC1yc2EAAAAB3	JQAAAQEAiVqHjz/BttZOetV0G/Wctfyylm+f5RMTzlbS
4 +bSGlzWgf5He9zmq46y/	32pVxY7UxQWD5C/xdV5s/P+h+KuOD7NM4ARZFF7VozeH
5 8UW2GO6U5+sdkfjasldk	Fjslospdfsdi21323sfZL2MNbiiIWg2YR15GQI1K73kO
6 2at7Kv0B193qr97ZXpE2,	/mmxQlgZ2GVLZBJM+e0qGqS0irDzPjwDGLr9qExsli39
7 1foDoSDYvIr8y6e+ktE1	vxAQR48xiY13Ybils92gpcbKPO1xMw+2Tdid8qTAV1zm
8 uuWdogFceh+nDn91ZTE8	/m2sUu2R+/E0OHexT/EH+0aARCRhhw==
9 END SSH2 PUBLIC	KEY

Be aware that the sequence of characters will be different and unique (is random characters generated by the process described above).

Delivery of the **public key** to WIPO

Rename the files using the suggested account naming convention.

0	Account Naming Convention
	Example for individual:
	 Private Key: ipob_jsmith.ppk Public Key: ipob_jsmith.pub
	 Example for IPO (using country or organization two-letter code according to WIPO ST.3): Private Key: ipob_cr.ppk Public Key: ipob_cr.pub
⚠	Email your public key to your support contact copying the ipas mailbox (ipas@wipo.int).