Generating a Keypair by using Keystore Explorer

A keypair is required for Vayana GSP to authenticate each ASP.

The private key will be used by your application and the public key will be used by Vayana GSP to authenticate you and thus needs to be shared with Vayana GSP.

The steps for generating the key pair are as below:

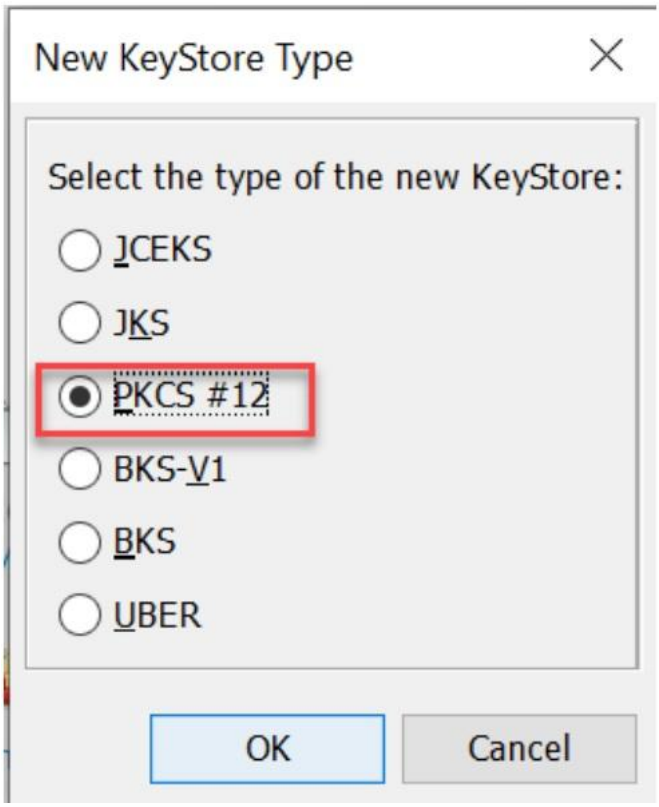
Generating Private/Public Key by using Keystore Explorer

The keystore Explorer tool can be downloaded from
https://keystore-explorer.org/downloads.html

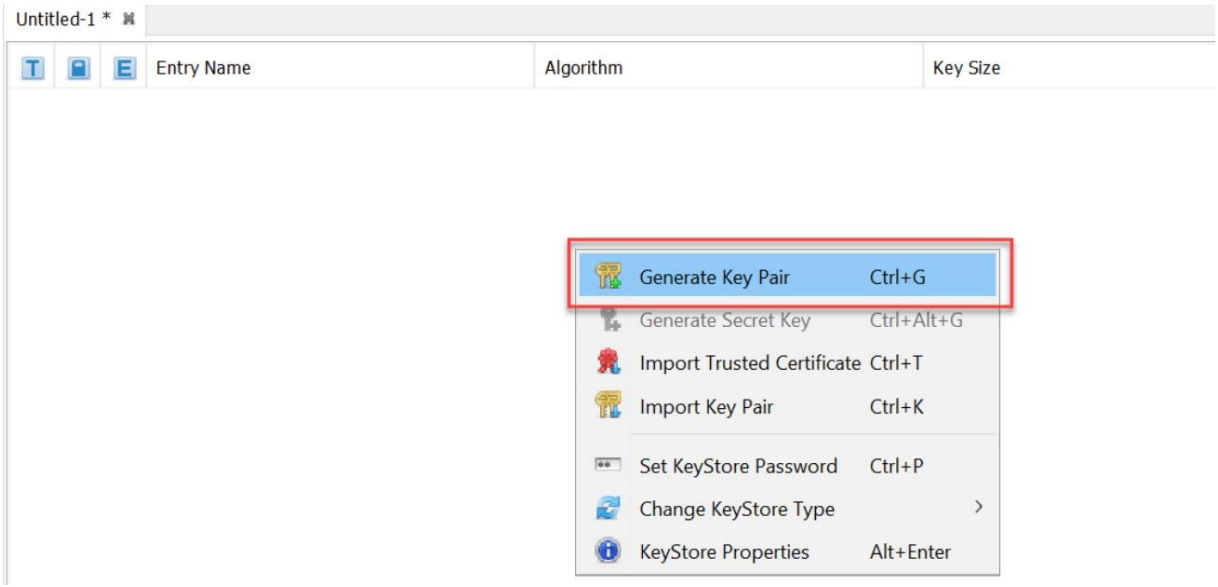
For generating a new keypair, follow the steps:

1. Open Keystore Explorer and select 'Create a new KeyStore'.

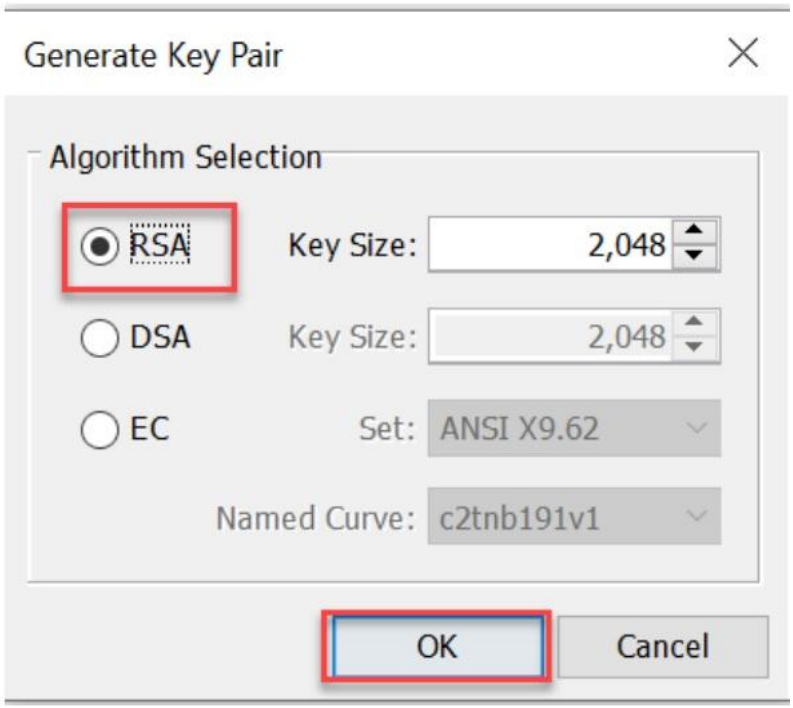
2. Select the type as **PKCS #12** and click **OK**.



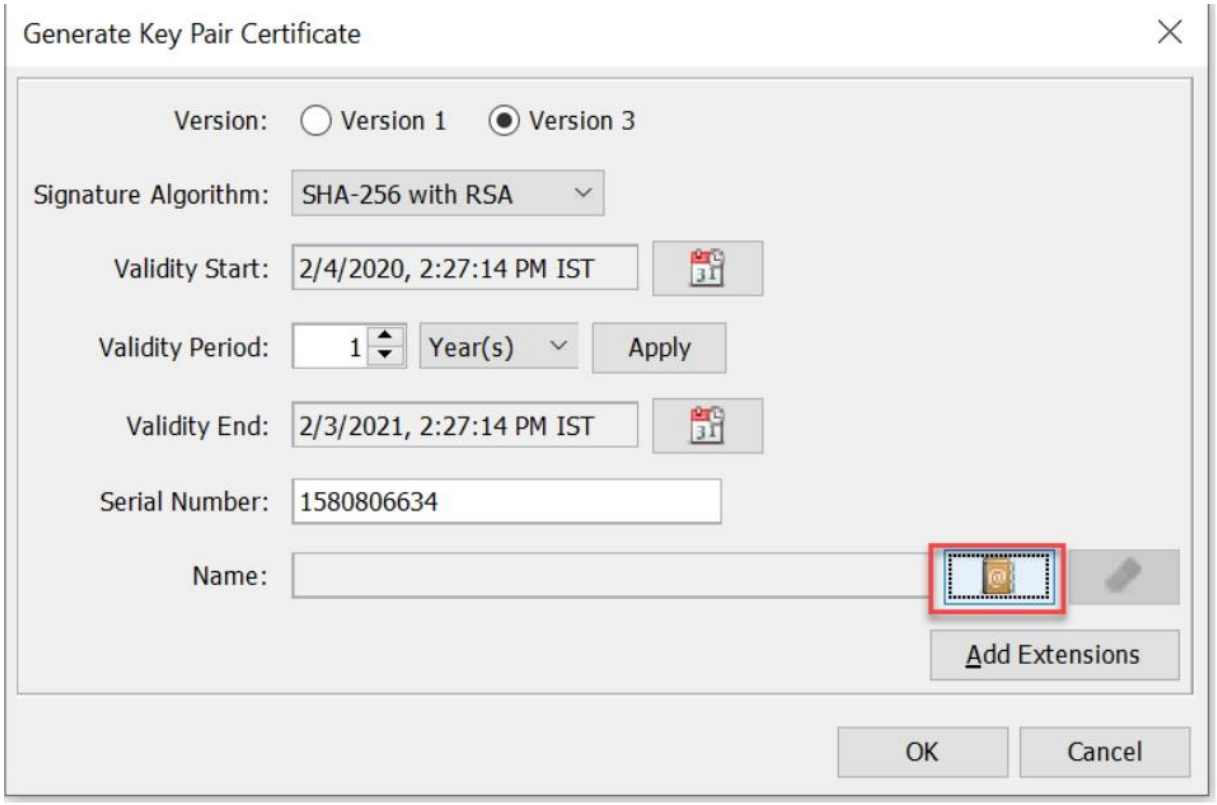
3. Right Click and select 'Generate Key Pair'.



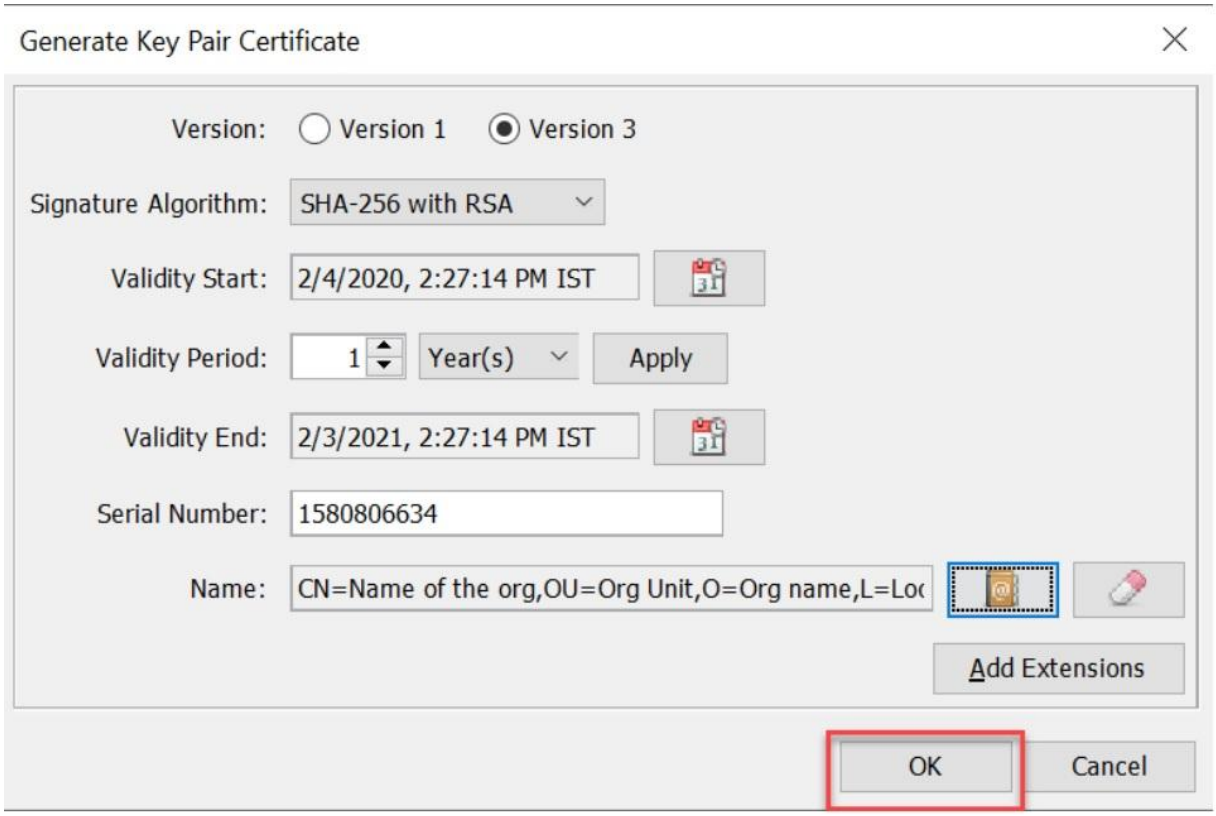
4. Select **RSA** and click **OK**.



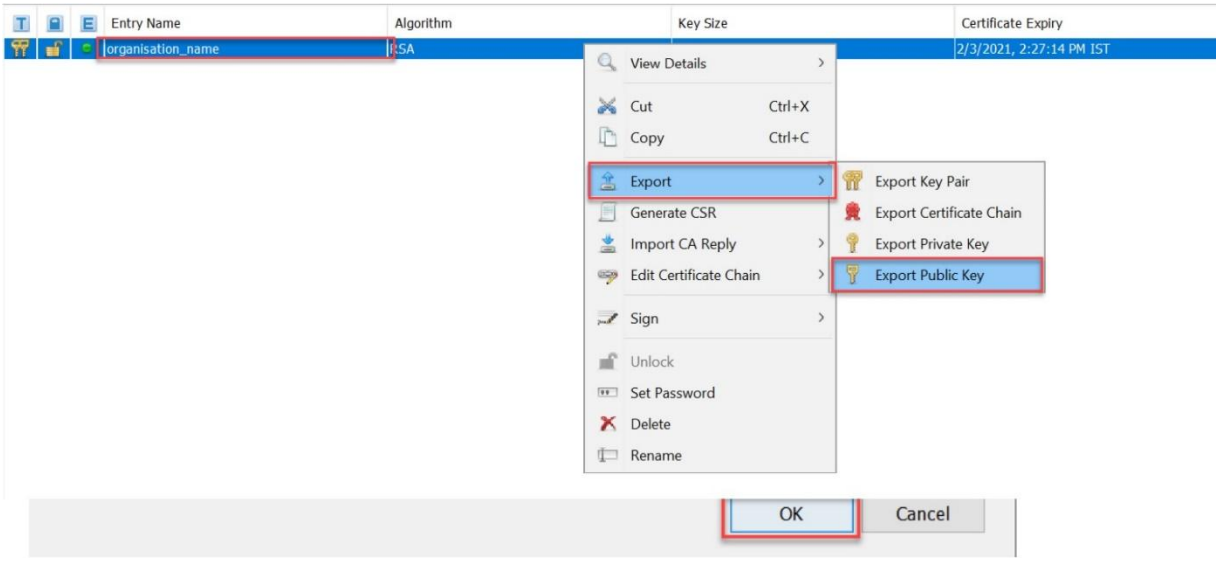
5. Click on **Edit** name and enter the relevant details. Click **OK**.



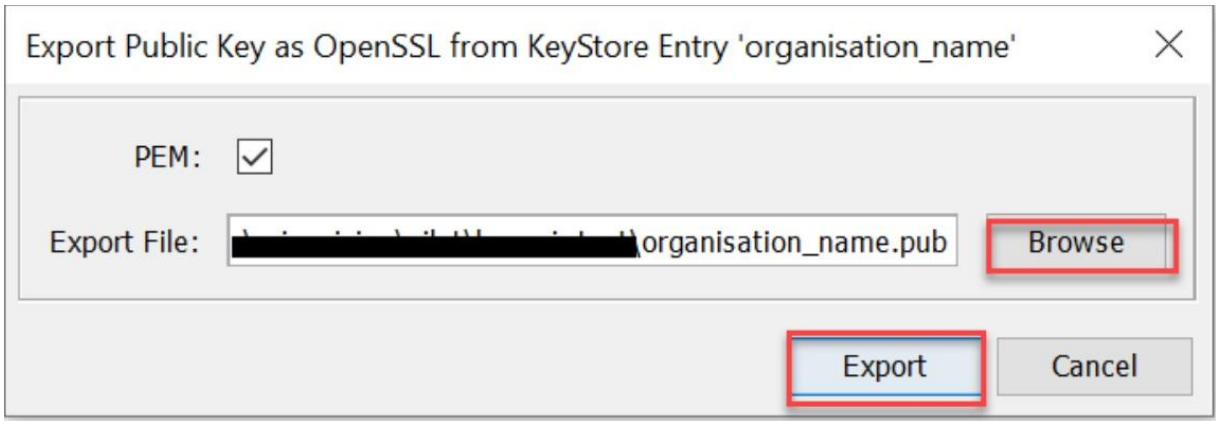
6. Click **OK** again.



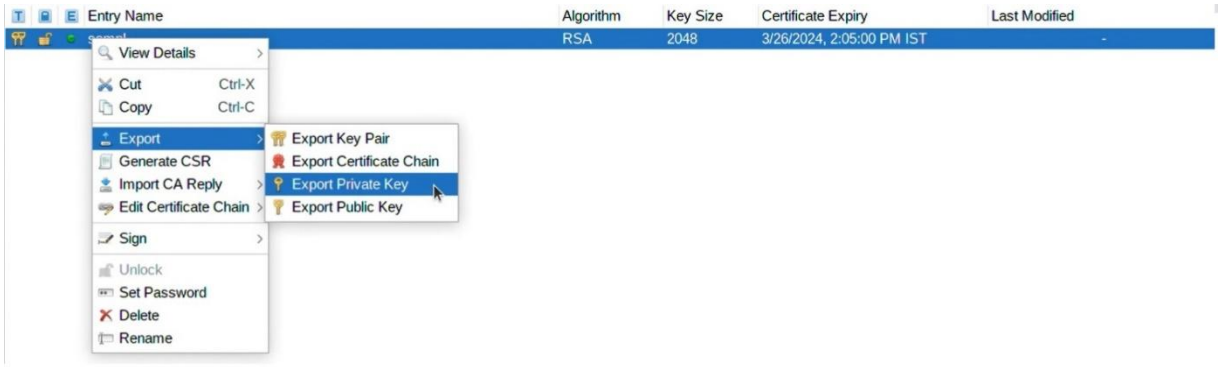
7. Enter the alias and click **OK**.
8. Set the password and click **OK**. The keypair will be generated.
9. To Export the public key from generated keypair, right click on **keypair-> Export -> Export Public key**.



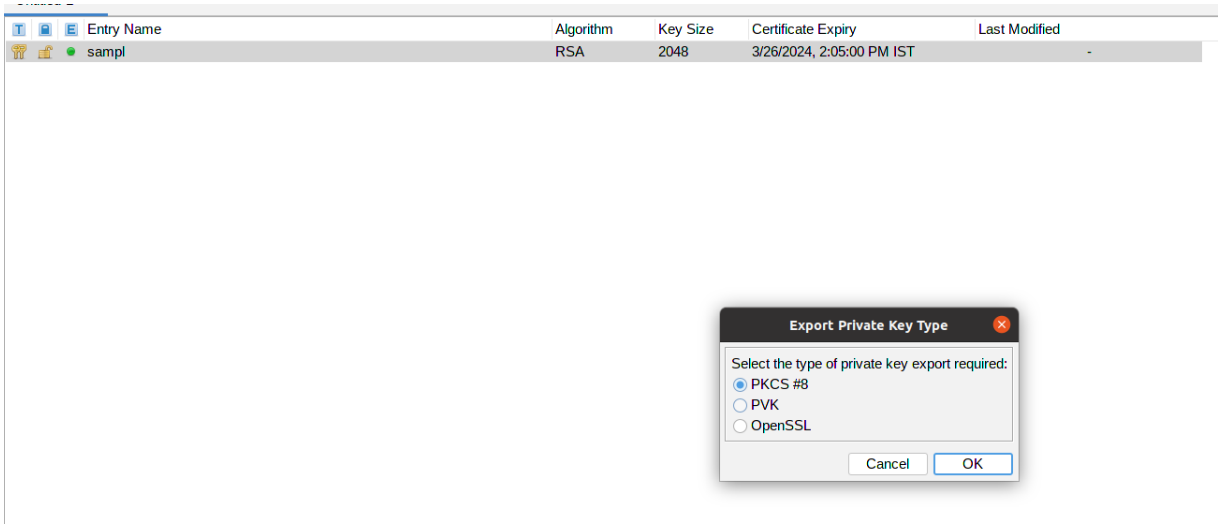
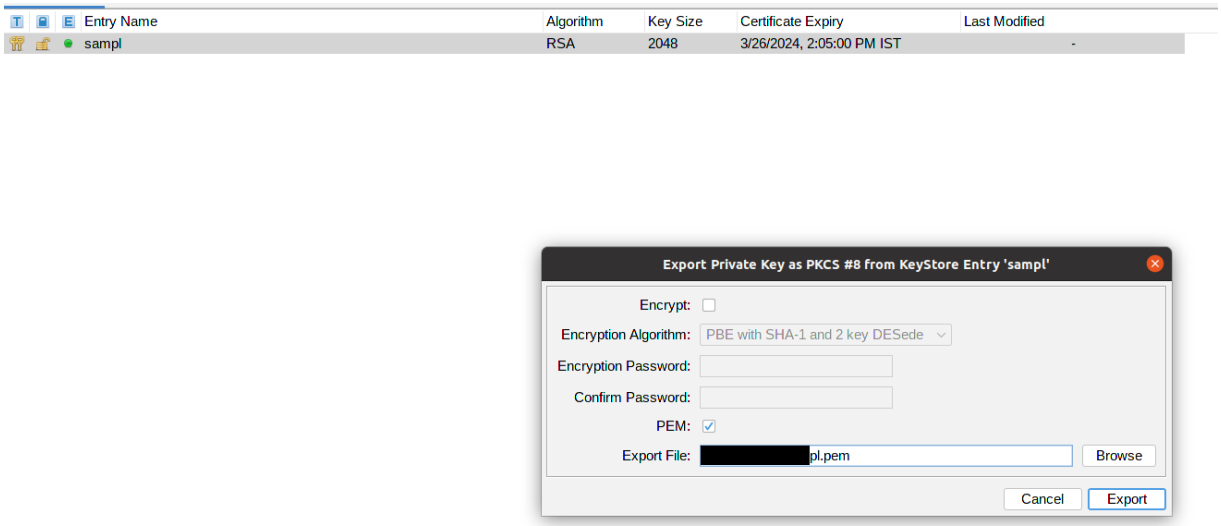
10. Browse the path to save the public key and select **Export**. The public key will be exported to the selected path.
    Note: If your application can't read the '.pub file', please rename the file extension to '.pem' or '.txt')



11. To Export the Private key from generated keypair, right click on keypair-> **Export -> Export Private key**.



12. Select the type of Private key export required as **PKCS#8.**



13. Please uncheck **'Encrypt'**. Rename the file extension to '.pem' or '.txt'.
Browse the path to save the private key and select **Export**. The private key will be exported to the selected path.
Note: If your application can't read the '.pkcs8' file, please rename the file extension to '.pem' or '.txt')