Keypair Generation for Vayana

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1 Introduction

For the communication between SAP Cloud platform Integration and Vayana GSP, additional Keypair needs to be added. You can use any tool for the generation of Keypair.

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 keypair.

Untitle	d-1 * ⊮					
T		Entry Name	Algorithm		H	Key Size
			TE	Generate Key Pair	Ctrl+G	
			14	Generate Secret Key	Ctrl+Alt	+G
			寬	Import Trusted Certificate	Ctrl+T	
			1	Import Key Pair	Ctrl+K	
				Set KeyStore Password	Ctrl+P	
					carri	
				Change KeyStore Type		>
				KouStore Properties	Alt Cat	

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

Generate Key	Pair		\times						
Algorithm Selection									
• RSA	Key Size:	2	2,048 🜩						
ODSA	Key Size:	2	2,048 💂						
OEC	Set:	ANSI X9.62	~						
١	lamed Curve:	c2tnb191v1	. ~						
OK Cancel									

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



											. I	
II.		E	Entry Name	Algorithm			Key Size				Certificate Ex	piry
1	ſ I	• []	organisation_name	RSA SA	0	View D	etaila	>			2/3/2021, 2:2	7:14 PM IST
					2	view L	etalis					
					×	Cut		Ctrl+X				
					ľ	Сору		Ctrl+C				
					<u></u>	Export		>	Ħ	Export Key F	Pair	
						Genera	te CSR			Export Certi	ficate Chain	
					*	Import	CA Reply	>	7	Export Priva	te Key	
					9	Edit Ce	rtificate Chain	>	7	Export Publi	c Key	
					1	Sign		>				
					лÊ	Unlock						
						Set Pas	sword					
					×	Delete						
					Þ	Renam	e					
								01/		Connect		
								UK		Cancel		

6. Click OK.

Generate Key Pair Cer	tificate ×
Version:	○ Version 1
Signature Algorithm:	SHA-256 with RSA V
Validity Start:	2/4/2020, 2:27:14 PM IST
Validity Period:	1 🗘 Year(s) 🗸 Apply
Validity End:	2/3/2021, 2:27:14 PM IST
Serial Number:	1580806634
Name:	CN=Name of the org,OU=Org Unit,O=Org name,L=Loc
	<u>A</u> dd Extensions
	OK Cancel

- 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.

Export Public Key as OpenSSL from KeyStore Entry 'organisation_name'							
PEM:							
Export File:	Browse						
	Export Cance	I					

11. For exporting the Keypair, right click on the generated keypair -> **Export** -> **Export KeyPair**.

T E Entry Name	Algorithm		Key Size			Certificate Ex	qiry
📅 🖬 🔍 organisation_name	RSA	Q	View Details	>		2/3/2021, 2:2	7:14 PM IST
		Ū	C.1	,			
		A	Cut Ctri+2	-			
		40	сору син+с				
	I	2	Export	>	T Export K	ey Pair	
			Generate CSR		👮 Export C	ertificate Chain	
		<u>*</u>	Import CA Reply)	P Export P	rivate Key	
		7	Edit Certificate Chain	>	P Export P	ublic Key	
		7	Sign	>			
		лÊ	Unlock				
			Set Password				
		X	Delete				
		Þ	Rename				

 Set the password for the keypair and select the path. Click Export. The keypair(.p12) will be exported to the selected path.

Export Key Pair from KeyStore Entry 'organisation_name'						
PKCS #12 Password:	•••••					
Confirm Password:	•••••					
Export File:	be invested organisation_name.p12 Browse					
	Export Cance	: 				

Note:

The Keypair(.p12) has to be deployed in the SCPI tenant and the public key needs to be shared with the Vayana and ask them to link to your client-id.

1.1 Deploying the keypair in SCPI tenant:

1. In the SCPI Web UI URL, go to overview > Manage keystore

Manage Security				
Security Material	Keystore	Certificate-to-User Mappings	JDBC Data Sources	Connectivity Tests

2. Go to Add > keypair

1	Overview / Mar	nage Keystor	e								
	Current	Backup	New SAP keys (1)	SAP Key History					Certificate		
	Entries (141)						Filter by Alias	Q Back U	Key Pair Keystore	Add 🖉 Downl	load 🔿 😵
	Alias				Туре	Owner	Valid Until		SSH Key	≩d At	Actions

3. Browse **keypair** > Enter alias name as **appvayanapk** > enter the password for keypair > click **Deploy**

	Add Key Pair
*Alias:	appvayanakey
*File:	Choose a key pair for upload
*Password:	
	Deploy Cancel

1.2 Configuration of keypair in Vayana iflow:

1. Go to iFlow > click **Configure**

Overview Artifacts (3) Documents Tags Comments			
		Actions \sim	Filter Artifacts
Name	Туре	Version	Сору
			View metadata
			Download
	Integration Flow	1.0.0	Configure
	integration from	21010	Deploy
vayana-irn Created	Integration Flow	1.0.0	

2. Configure the **vayanapkalias** as **appvayanakey** (alisas with which the keypair is deployed)

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