VAYANA NETWORK
Connecting Enterprises

Integration to Vayana Network GSP

via SAP Cloud Platform Integration Service

Pre-requisites for Vayana clients from Vayana:
- Content package (.zip file) for setting up the Integration Flow from SAP DCS to Vayana Network GSP
- Client ID for production setup
- Vayana Network GSP server certificate
- Production system URLs of Vayana Network GSP
- RSA private and public key pair (size=2048 bit)

Setup Steps
- Following documents shall be available to help you get started with setting up SAP DCS integration with Vayana Network GSP:
  - Content package (.zip file)
  - SAP's Guide for GSP Setup (DCS_GSP_Setup_Documentation.pdf)
  - Vayana Network GSP Process Note (this document)
  - Client ID application details (ASP_User_Details.xlsx - excel file for submission of details needed for Client ID application)
  - Onboarding Form (excel file for submission of billing details)
- Client shall submit the details to Vayana Network GSP Support team (gsp-support@vayana.com) for seeking Client ID issuance
- Vayana Network GSP Support team shall submit the details to GSTN[1] for issuance of Client ID
- Client ID issued by GSTN shall be shared with[2] Vayana Network GSP Support team and/or Client
- Client to generate a RSA key pair using Java Keystore. Refer "Generate a public-private keypair" section for the detailed steps.
- Client to submit its Client ID and RSA public key to Vayana Network GSP Support team (gsp-support@vayana.com)
- Client uses the content package (.zip file) to setup the integration flow between SAP DSC and Vayana Network GSP, by referring SAP's guide for GSP Setup and Vayana Network GSP Process Note

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[1] Details on process for production Client ID issuance are awaited from GSTN
[2] Detailed process for Client ID issuance yet to be outlined by GTSN. Client ID may either be shared with GSP or directly with applicant.

Generate a public-private key pair
This is required for VayanaGSP to authenticate the ASP. The private key will be used by your ASP application. The public key will be used by VayanaGSP to authenticate the ASP.
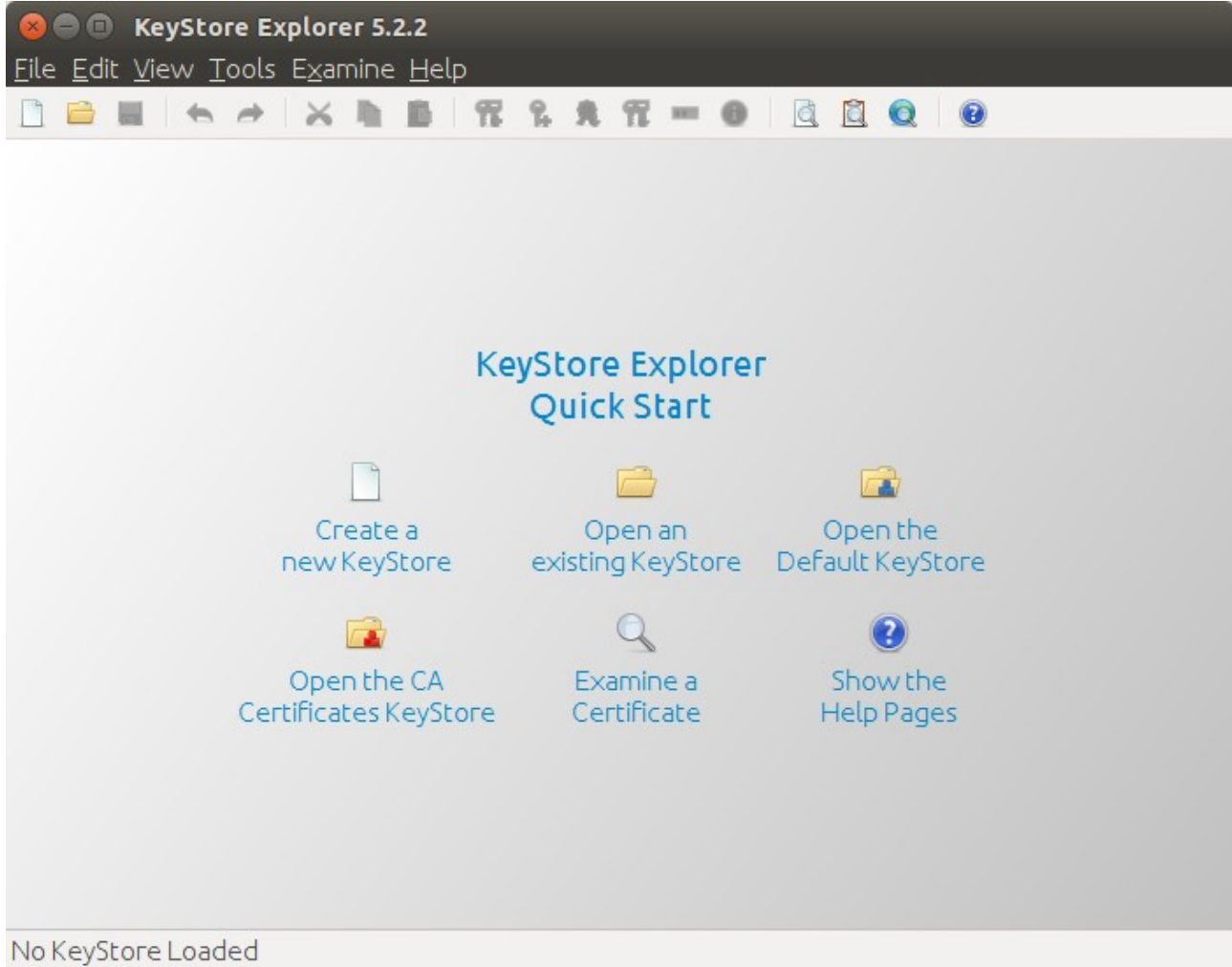
SAP ASP requires the private key to be in Java Keystore format. Hence we will use an to called "KeyStore Explorer" to generate our keypair in JKS format and then export the public key to be shared with VayanaGSP. You will require JRE to be installed for this tool to work.
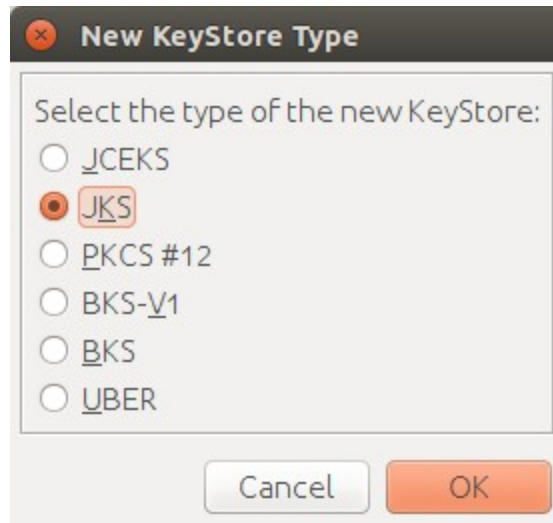
1) Download and install Oracle JRE -
http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html

2) Download and install KeyStore Explorer - http://keystore-explorer.org/downloads.html

3) Start Keystore Explorer and follow the process below to generate your keypair and export the public key

Click on "Create a new KeyStore", select "JKS" and save it as "vayanagsp_iflow.jks"

New KeyStore Type

Select the type of the new KeyStore:
- ○ JCEKS
- ● JKS
- ○ PKCS #12
- ○ BKS-V1
- ○ BKS
- ○ UBER

Cancel   OK

When prompted provide a password and remember this password, since it will be required during configuration in your SAP ASP integration flow setup.

Use "Tools" menu, to "Generate a keypair" of type"RSA" and key size=2048

Generate Key Pair

Algorithm Selection

- ● RSA   Key Size: 2,048
- ○ DSA   Key Size: 1,024
- ○ EC   Set: ANSI X9.62
         Named Curve: c2tnb191v1

Cancel   OK

Click on the "Book" icon against the "Name" field and fill up the details
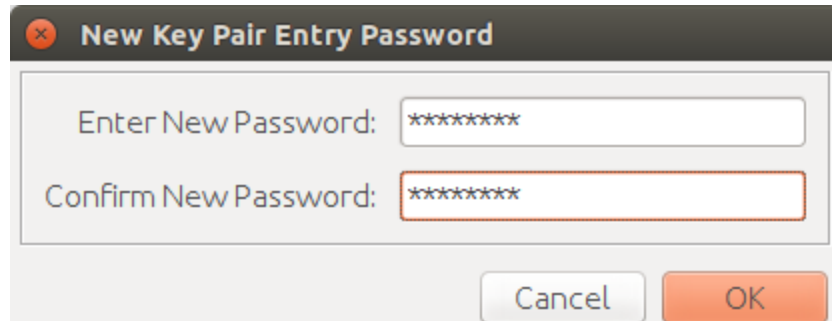

Provide an "alias" (required by Java Keystore) and note down this value, since it will be required during SAP ASP Integration flow setup.

Earlier you were prompted for a keystore password (required to open this JKS file next time).

Now you will be prompted for keypair password. Note down this value as well. You can keep this password same as the password for JKS.
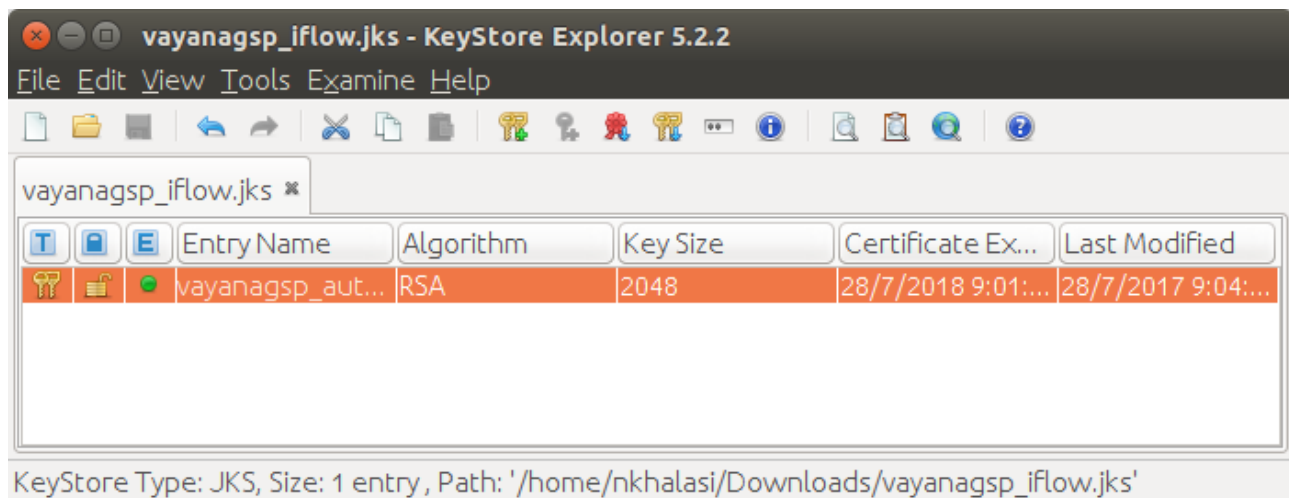
New Key Pair Entry Password

Enter New Password: ********

Confirm New Password: ********

Cancel   OK

Save the keystore file.

vayanagsp_iflow.jks - KeyStore Explorer 5.2.2
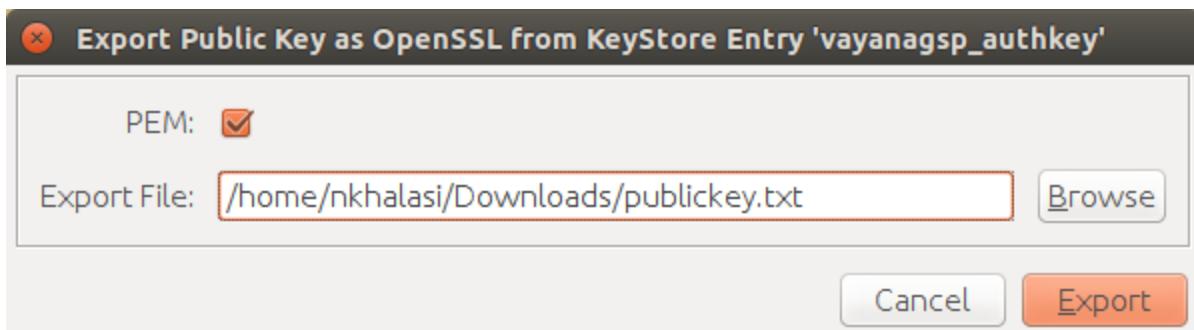
File Edit View Tools Examine Help

T		E	Entry Name	Algorithm	Key Size	Certificate Ex...	Last Modified
		●	vayanagsp_aut...	RSA	2048	28/7/2018 9:01:...	28/7/2017 9:04:...

KeyStore Type: JKS, Size: 1 entry, Path: '/home/nkhalasi/Downloads/vayanagsp_iflow.jks'

Right click on the keypair entry -> Export -> Export Public Key

Change the name to "publickey.txt"

Export Public Key as OpenSSL from KeyStore Entry 'vayanagsp_authkey'

PEM: ☑

Export File: /home/nkhalasi/Downloads/publickey.txt   Browse

Cancel   Export

Click on "Export" and the file will be saved in the location you selected.

Share the publickey.txt and your client ID with VayanaGSP team for enabling your access.

VayanaGSP Configuration Parameters

Sandbox Environment

vayana_gstn_ret: https://yoda.api.vayanagsp.in/gus/taxpayerapi/v0.3/returns

vayana_gstn_auth: https://yoda.api.vayanagsp.in/gus/taxpayerapi/v0.2/authenticate

vayana-clientid: <as received from GSTN>

vayana-client-secret: <as received from GSTN>

vayanapkalias: <as noted during keypair generation, e.g vayanagsp_authkey in the screenshots above>

gspurl: https://yoda.api.vayanagsp.in/gus

Vayana_ping : https://yoda.api.vayanagsp.in/gus/ping

Production Environment

vayana_gstn_ret: https://api.gsp.vayana.com/gus/taxpayerapi/v0.3/returns

vayana_gstn_auth: https://api.gsp.vayana.com/gus/taxpayerapi/v1.0/authenticate

vayana-clientid: <as received from GSTN>

vayana-client-secret: <as received from GSTN>

vayanapkalias: <as noted during keypair generation, e.g vayanagsp_authkey in the screenshots above>

gspurl: https://api.gsp.vayana.com/gus

Vayana_ping: https://api.gsp.vayana.com/gus/ping