**Token Generator Steps:**

* In order to Generating Token for any application, We need to check 4 files and DevFramework jar files

1.Certificate of the application

2.Client.properties

3.Security.properties

4.fp.properties

* Make sure whether correct certificate information like application id and certificate authentication details are mentioned in the client.properties or not. If we mention wrong details about certificate we will get Validation errors
* Make sure whether client.properties and security.properties are exist in the resources folder.If we didn’t mention we will get the following exception

Exception in thread "main" java.lang.ExceptionInInitializerError

Caused by: java.lang.RuntimeException: Could not load the client.Properties file 'client.properties.4067'. Please verify the file exists at the absolute location or in the classpath. at com.fedex.security.client.PkcTokenGeneratorImpl.configure(PkcTokenGeneratorImpl.java:285)

* If we get the following error then we need know that we are not having the application certificate in the resources folder

Exception in thread "main" java.lang.ExceptionInInitializerError

Caused by: java.lang.RuntimeException: Failed to configure generator for client APP4067

at com.fedex.security.client.PkcTokenGeneratorImpl.configure(PkcTokenGeneratorImpl.java:298)

at com.fedex.security.client.PkcTokenGeneratorImpl.configure(PkcTokenGeneratorImpl.java:252)

at com.fedex.devframework.utility.TokenGen4067.<clinit>(TokenGen4067.java:31)

Caused by: com.fedex.security.exceptions.SecurityConfigurationException: Could not load the certificate file 'APP4067\_InfosecTestCA.p12'. Please verify the file exists at the absolute location or in the classpath.

* While running TokenGen.java make sure we have loaded client.properties and security.properties like as below code.

static {

TokenGenerator gen = PkcTokenGeneratorImpl.getInstance("security.properties");

gen.configure("client.properties");

}

* We need to pass correct service id in the getToken("1234\_abcdf")

Ex: getToken("4393\_escservice")

public static void main( final String[] args ) throws Exception

{

System.err.println("Token: " + getToken("4393\_escservice")); // Token generation for esc service

//System.err.println("Token: " + getToken("943415\_cds")); // Token generation for CDS service

}

* The valid certificate should exist in the resources folder.
* While running the TokenGen.java, If we found exception like Certificate has expired we need to get the and replace the new certificate in resource folder and the new certificate related information should be updated in client.properties
* Before running Token Generator class make sure whether we have added the DFW jar in the build path and place all DFW jars in lib folder
* If we run TokenGen successfully we will get the following token

v1:APP4067:czmR9efLX56uHZtNKZSYY8YK0mU9KkvMh7p3s/K4iuxdWx/O9C5GutlbrQvAziHUQgcv0soUWX1e

XYhgFFaIuUd+bb6yaIWNUrkJsP9DpDfZZfICxaXnJjiV8byFGW+tc7yuMATcXOf5eSbJhLGP1te7

QVRmkqj6zj6daSTxsug=:APP4067