

Develop T24 Packages, Plugins and Code

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Introduction & Prerequisites

This developer guide presents the required configurations and the main steps for the following actions:

- develop new/existent jBC routines and deploy them to your sandbox
- import/export applications/enquiries/versions from/to your sandbox to/from your local machine
- extract from the database/load in the database data (.d) files from/to your sandbox to/from your local machine.

For this purpose, you need to have access to:

- Design Studio (locally)
- T24 libraries (locally)
- TAFJ (locally)
- Temenos Sandbox (cloud)
- Tortoise Git (locally) - download from [here](#).

A development package (containing Design Studio, T24 libraries and TAFJ) is provided by Temenos and it is pre-configured in order to be able to introspect T24 application hosted in Temenos Cloud Development Platform.

This package is adapted according to the T24 version of your sandbox and it is provided as a **.zip** file.

After extracting it in your local machine to any location, the bellow foldimers should be available:

- DS
- t24Lib
- TAFJ

To be able to interrogate the sandbox database, following update must be applied to **tafj.properties** file from Your_DEV_Path\TAFJ\conf:

temn.tafj.jdbc.url=jdbc:h2:tcp://**ENV_DNS**:9092/TAFJDB;MODE=Oracle;TRACE_LEVEL_FILE=0;
TRACE_LEVEL_SYSTEM_OUT=0;DB_CLOSE_ON_EXIT=FALSE;
FILE_LOCK=NO;IFEXISTS=TRUE;CACHE_SIZE=131072; MVCC=TRUE;LOCK_TIMEOUT=30000
Replace ENV_DNS with your environment DNS. See below example:

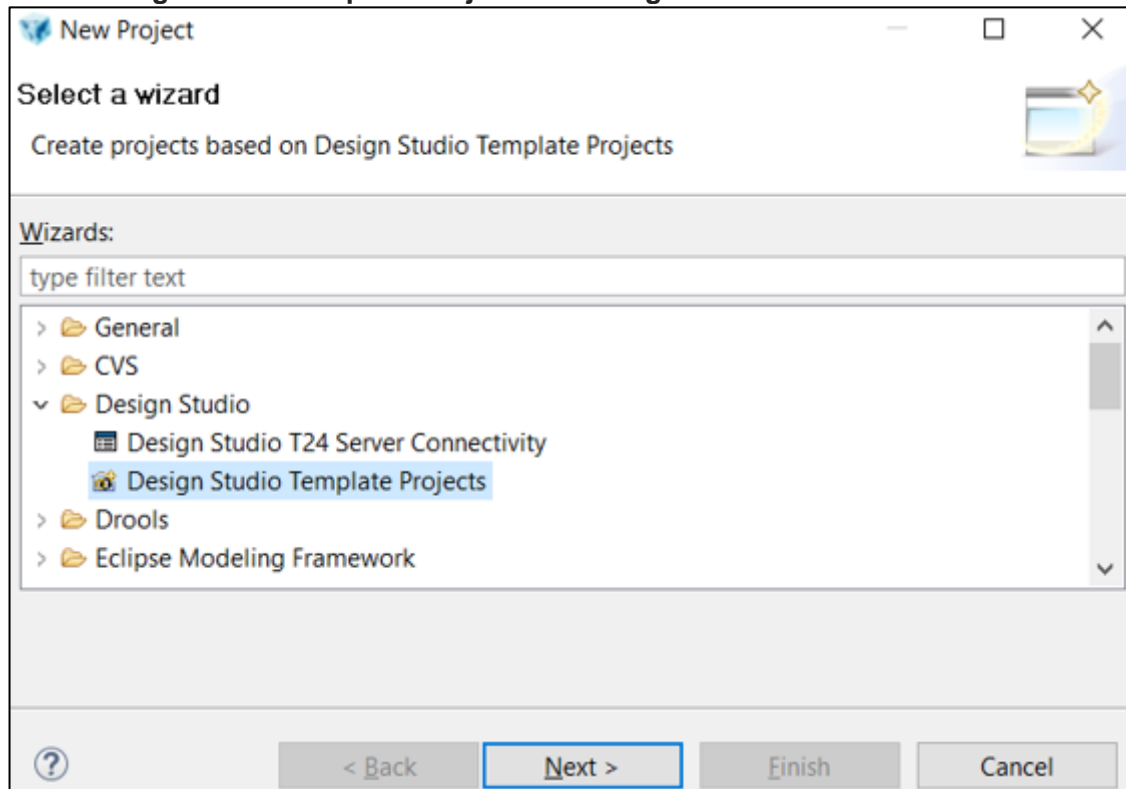
```
temn.tafj.jdbc.url=  
jdbc:h2:tcp://t24-1djkhf9o9gge8.dev.temenos.cloud:9092/TAFJDB;MODE=Oracle;TRACE_LEVEL_FILE=0;TRACE_LEVEL_SYSTEM_OUT=0;DB_  
CLOSE_ON_EXIT=FALSE;FILE_LOCK=NO;IFEXISTS=TRUE;CACHE_SIZE=131072;MVCC=TRUE;LOCK_TIMEOUT=30000
```



Create New Project in Design Studio

In order to accomplish the development actions presented at the beginning of the guide, you need to create a new project in Design Studio.

- Start Design Studio from *DesignStudio* folder using **StartDesignStudio.bat** file and choose the default workspace (Your_DEV_Path\DesignStudio\workspace) or any other workspace from your local machine.
- After Design Studio starts, go to **File > New > Project**.
- Select **Design Studio Template Project** from **Design Studio** item and click **Next**.



- In the next screen, select **t24-packager-tafj** template from the drop down list and set **tafjHome**, **insertDir** and **libDir** parameters according to Your_DEV_Path.

NOTE

VERY IMPORTANT!

Make sure you set the following values as per below instructions, otherwise the package installation will fail:

- project-name - always use small letters as per this standard: xx-name (in current example we used: **ft-sample**)
- release - use the T24 release (example R17, R18, R19 etc.)
- product-name: use only two capital letters. **Note** that it must correspond to your project name:

- Example: if project-name is xx-name, the product-name must be XX



- Example: if project-name is ft-sample, the product-name must be FT
- component name - must be the same as in project name, after the "-". Must start with capital letter.
 - Example: if project-name is xx-name, the component-name must be Name
 - Example: if project-name is ft-sample, the component-name must be Sample
- version: make sure you input the correct version (example 18.11)
- host - login to the portal, go to your Environment > Go to Application > Select the address of your T24 environment (example: <https://t24-1abbbbbccc900.temenos.cloud>)

New Design Studio Template Projects

Create Template Projects

Creates new projects based on template

Choose a Template :

t24-packager-tafj 201811.3

Description :

T24 Demo packager (TAFJ)

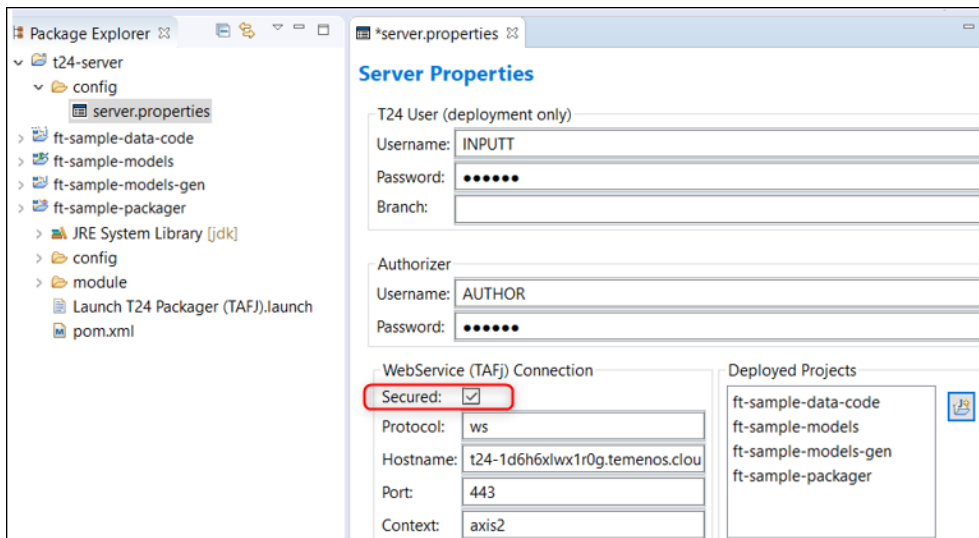
Parameters :

Name	Value	Description
project-name	ft-sample	Name of the project
groupId	com.odcgroup.tafj.package	Project's POM groupId
release	R18	Target release of the package (ex: R17)
product-name	FT	Product's name
component-name	Sample	Component's name
rev	1	Revision (ex: 1)
version	18.11	Version (ex: 17.0)
tafjHome	D:\TemenosDev201811\TAFJ	TAFJ home (tafj.home in tafj.properties)
insertDir	D:\TemenosDev201811\t24Lib	Insert BASIC sources directory (temn.tafj.directory.insert in tafj.properties)
libDir	D:\TemenosDev201811\t24Lib	Precompile classes directory (temn.tafj.directory.precompile in tafj.properties)
host	t24-1d7yz2wfh4pxs.dev.temenos.cloud	Host
ws-port	443	Port
t24username	DEMO	User name
t24password	147258	Password
t24username-authorizer	DEMO1	Authoriser's user name
t24password-authorizer	147258	Authoriser's password

Your paths

< Back Next > Finish Cancel

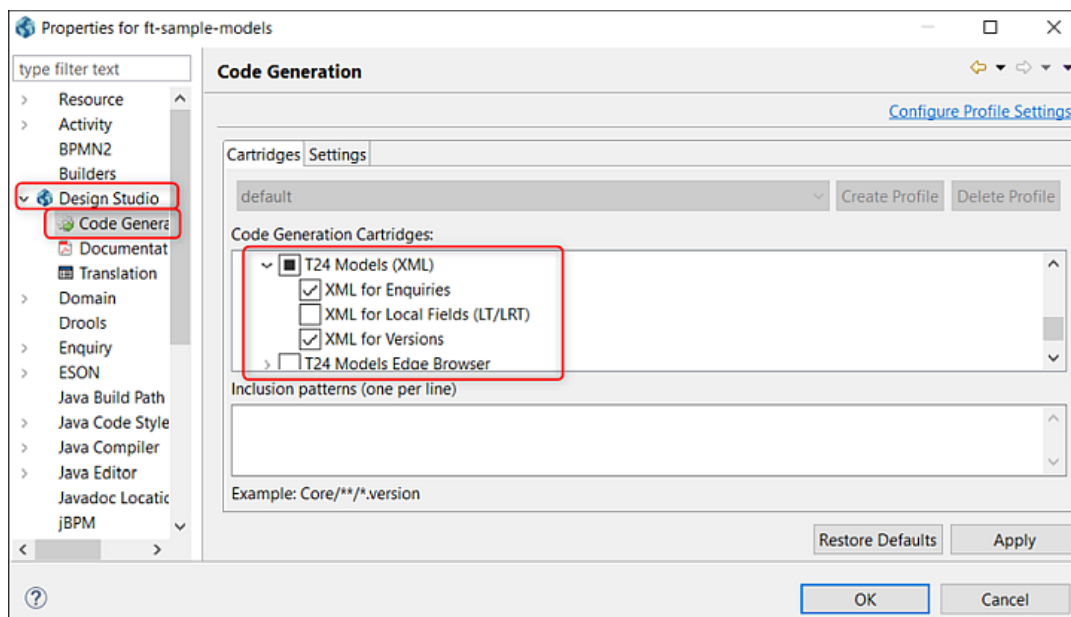
- Click **Finish** to create the project and 4 modules will be created, as per bellow picture.
 - > ft-sample-**data-code**: holding basic routines and data files.
 - > ft-sample-**models**: holding Design Studio models(applications, enquiries, versions) that can be imported/exported from/to your sandbox.
 - > ft-sample-**models-gen**: holding files generated by Design Studio from the ft-sample-**models** project.
 - > ft-sample-**packager**: holding the launcher for creating a T24 package that can be deployed to your sandbox.
- Make sure you check the **secured box** as in below picture:



Make sure you save the change CTRL+S.

Uncheck XML for Local Fields

Go to ft-sample-models > click right and select Properties > expand Design Studio > click Code Generation > expand All Categories > Uncheck XML for Local Fields (LT/RTL)



Click Apply and OK.



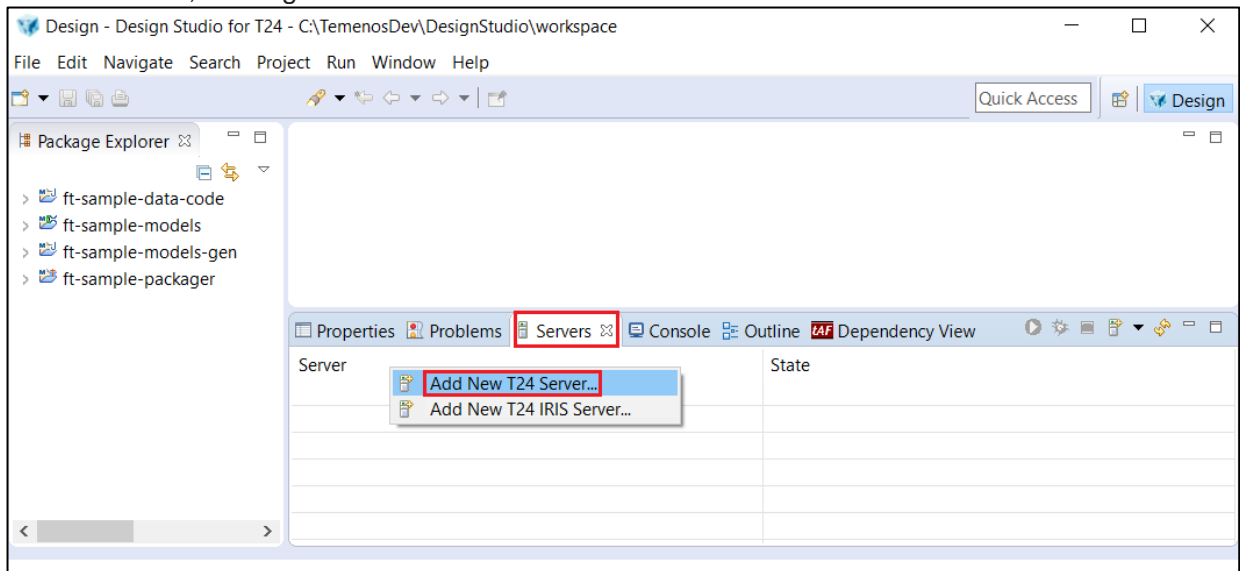
Create New T24 Server in Design Studio

NOTE

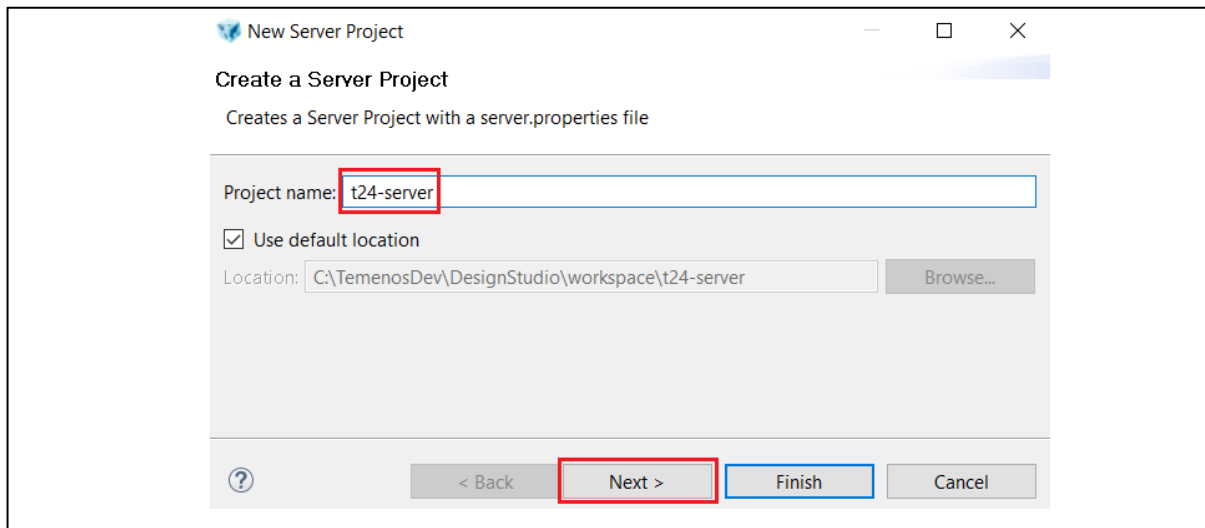
Check first if you already have available the **Servers** tab. If not, follow below steps.

A T24 Server is required in Design Studio to be able to import/export applications/enquiries/versions from/to your sandbox. Follow next steps to create and configure a T24 server:

- On servers tab, click right and select **Add New T24 Server**.



- A new screen is open. Type a **name** for the server(make sure it includes '-server' string) and click **Next**.





- Choose connection type as **T24 Server-Web Service** and click **Finish**.

New Server Project

Choose the server connection type

This wizard creates a new server properties file with the connection type selected, that can be opened by a multi-page editor.

Choose the connection type:

☐ T24 Server-Agent

☒ T24 Server-Web Service

< Back Next > Finish Cancel

- After the server is created, the *server.properties* must be updated according to your sandbox details:
 - > In *T24 User (deployment only)* section, **2 users** that you use to connect to your T24 sandbox must be introduced.
 - > In *WebService (TAFJ) Connection* section, **Secured box** must be checked, **Protocol** must be set to **ws** value, **Hostname** must be set according to the hostname of your sandbox, **Port** must be set to **443** value and **Context** to **axis2** value.

File Edit Navigate Search Project Run Window Help

Quick Access Design

Package Explorer

server.properties

Server Properties

T24 User (deployment only)

Username: INPUTT

Password: *****

Branch:

Authorizer

Username: AUTHOR

Password: *****

WebService (TAFJ) Connection

Secured: ☒

Protocol: ws

Hostname: t24-1c4mesaw2ht6o.temenos.cloud

Port: 443

Context: axis2

Deployed Projects

ft-sample-data-code

ft-sample-models-gen

ft-sample-packager

Form Source

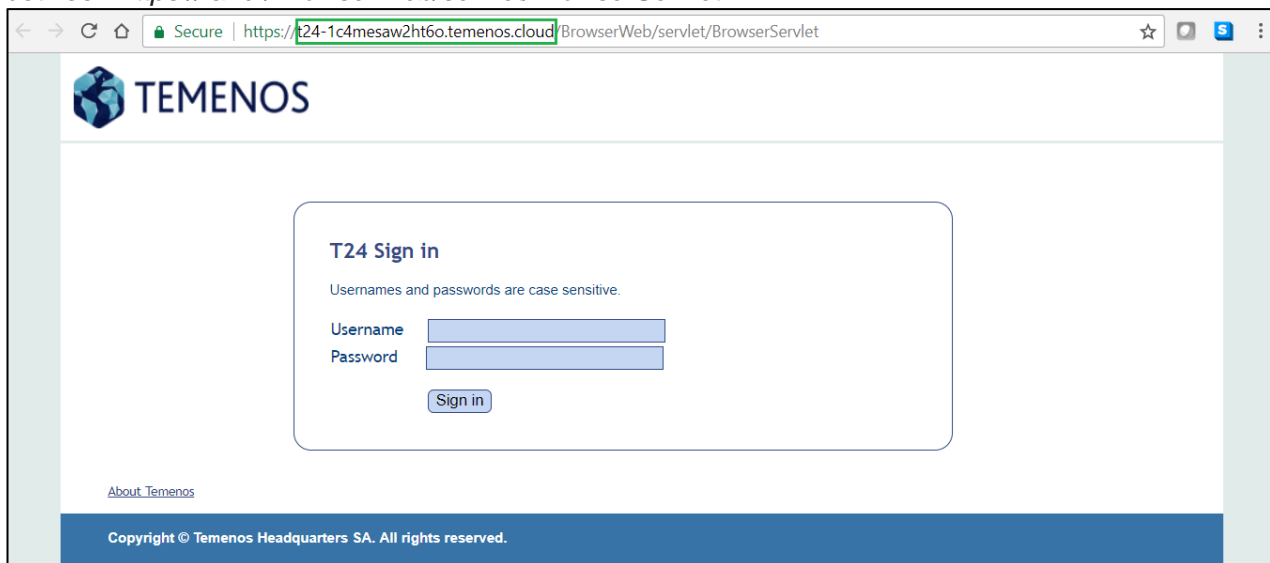
Properties Problems Servers Console Outline **RAF** Dependency View

Server	State
T24 Connection (t24-server)	Inactive
ft-sample-data-code	
ft-sample-models-gen	
ft-sample-packager	

-> To get the hostname of your sandbox, log-in to your organisation in TCD Portal (Temenos Continuous Deployment), go to your environment page and click on the **GO TO Application** Endpoint for the T24 application. The BrowserWeb page of your sandbox is opened and from the URL of this page, you must select the part

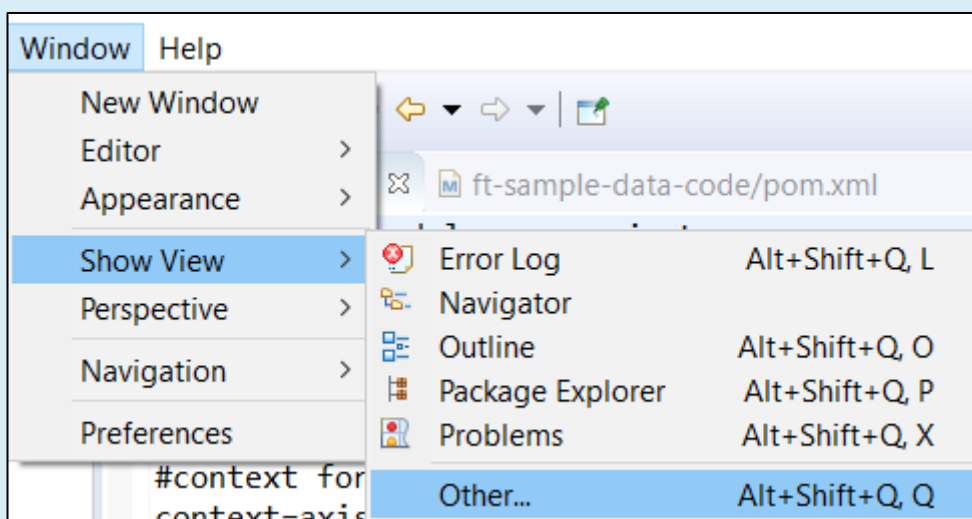


between `https://` and `/BrowserWeb/servlet/BrowserServlet`.

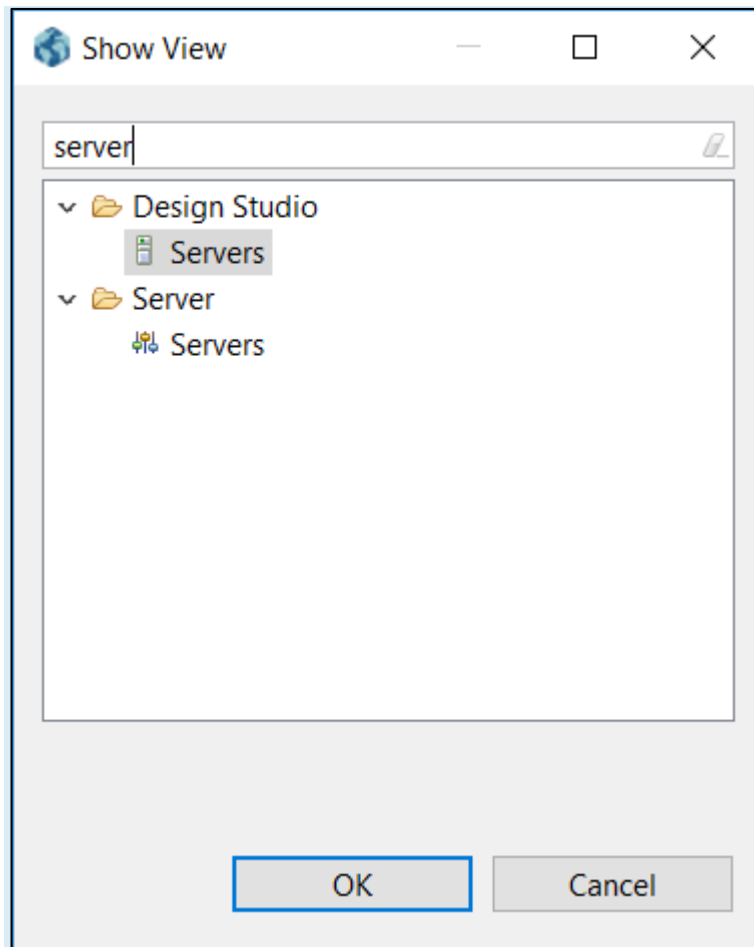


NOTE

For future use, in case T24 Server is not visible, go to: **Window > Show View > Other:**



Type **Server** in the search bar and select **Design Studio > Servers:**

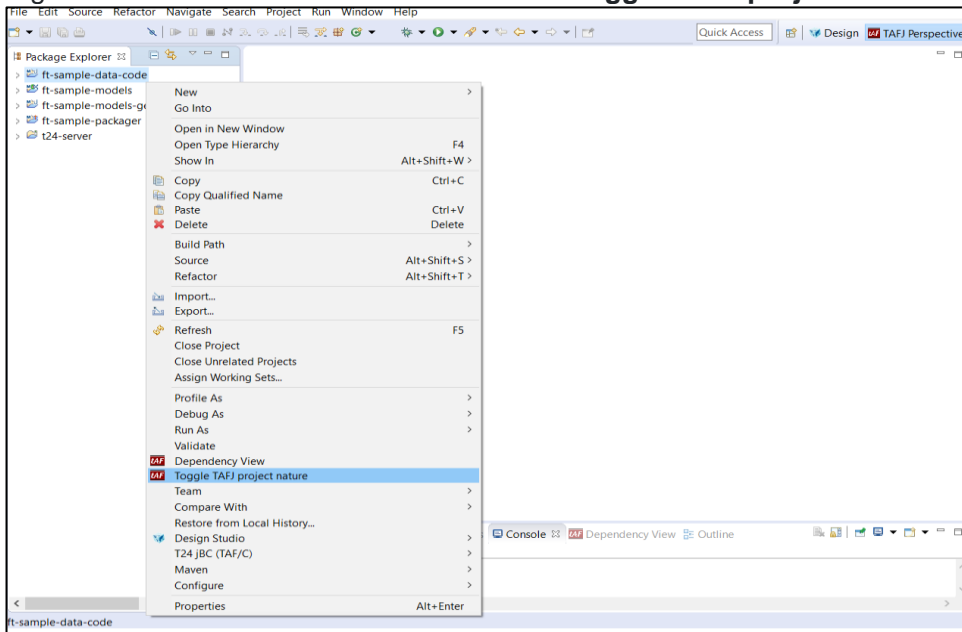




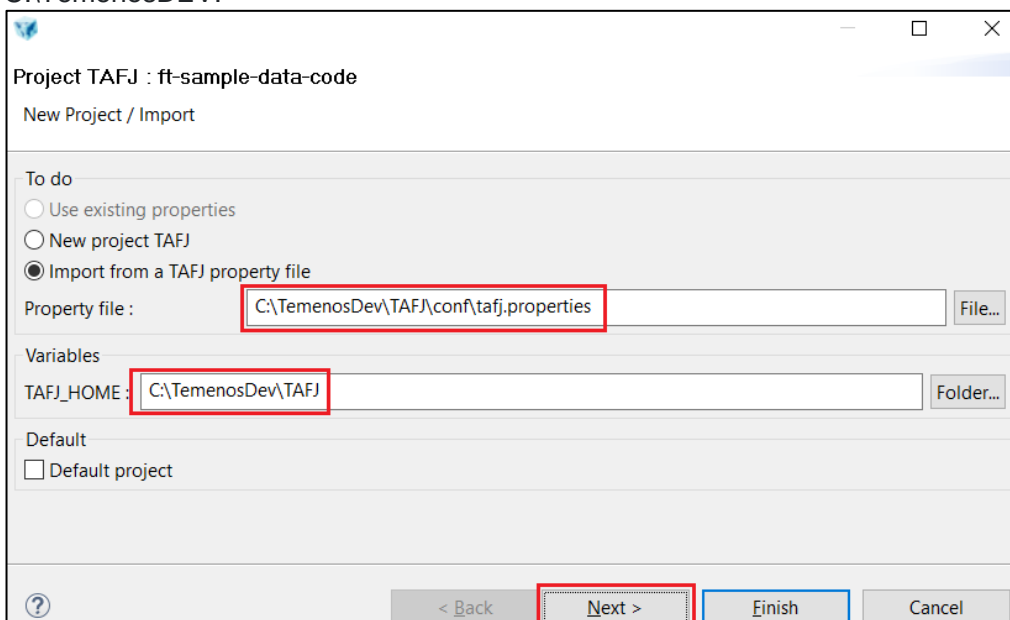
Toggle Project to TAFJ project nature

The **Toggle TAFJ project nature** action must be performed in order to be able to develop, compile and package jBC routines and to interrogate your sandbox database.

- Right click on **data-code** module and choose **Toggle TAFJ project nature**.



- In the next screen,
- *tafj_properties* from Your_DEV_Path/TAFJ/conf folder, choose TAFJ_HOME as Your_DEV_Path/TAFJ folder and click **Next**. In the bellow picture, DEV_Path is set to C:\TemenosDEV.





- In the next screens, click **Next** and **Finish**.

Project TAFJ
Existing / Import

temn.tafj.directory.basic

Link	Full Path
/basic	C:\TemenosDev\TAFJ\samples/basic

Add Basic Folder...
Remove

temn.tafj.directory.insert

Link	Full Path
/t24Lib	C:\TemenosDev\t24Lib

Add Insert Folder...
Add JARs...
Remove

temn.tafj.directory.precompile

Link	Full Path
/t24Lib	C:\TemenosDev\t24Lib

Add Class Folder...
Add JARs...
Remove

temn.tafj.directory.java

Link	Full Path
/java	C:\TemenosDev\TAFJ\data/tafj/java

Folder...

temn.tafj.directory.classes

Link	Full Path
/classes	C:\TemenosDev\TAFJ\data/tafj/classes

Folder...

Project TAFJ
Database setup

Database setup

temn.tafj.jdbc.driver : org.h2.Driver

temn.tafj.jdbc.url : IP : 52.142.208.37 Port : 1521

☐ temn.tafj.jdbc.db2.zos.mode
☐ Use Integrated Security? (Only some dbs)

Database instance : TAFJDB;MODE=Oracle;TRACE_LEVEL_FILE=0;TRACE_LEVEL_SY

Current schema :

temn.tafj.jdbc.username : t24

temn.tafj.jdbc.password : ***

Test Connection

DB2 zOS Options

temn.tafj.jdbc.db2.zos.default.t.db : T24DB900

temn.tafj.jdbc.db2.zos.default.t.tablespace : T24TS000

temn.tafj.jdbc.db2.zos.default.t.stogroup : T24STORE

temn.tafj.jdbc.db2.zos.default.t.bufferpool : BP32K2

Options

☐ temn.tafj.jdbc.write.use.merge

temn.tafj.jdbc.commit.mode :

☐ temn.tafj.jdbc.jbase.utf8

Dict Table Types : CLOB

T24 Collector

temn.tafj.t24.collector : localhost:4444

Locking setup

temn.tafj.locking.mode : JDBC

☐ temn.tafj.locking.callstack

temn.tafj.locking.name :

temn.tafj.locking.hostname : IP : 127.0.0.1 Port : 7425

Project TAFJ
Existing / Import

temn.tafj.directory.basic

Link	Full Path
/basic	C:\TemenosDev\TAFJ\samples/basic

Add Basic Folder...
Remove

temn.tafj.directory.insert

Link	Full Path
/t24Lib	C:\TemenosDev\t24Lib

Add Insert Folder...
Add JARs...
Remove

temn.tafj.directory.precompile

Link	Full Path
/t24Lib	C:\TemenosDev\t24Lib

Add Class Folder...
Add JARs...
Remove

temn.tafj.directory.java

Link	Full Path
/java	C:\TemenosDev\TAFJ\data/tafj/java

Folder...

temn.tafj.directory.classes

Link	Full Path
/classes	C:\TemenosDev\TAFJ\data/tafj/classes

Folder...

Project TAFJ
Database setup

Database setup

temn.tafj.jdbc.driver : org.h2.Driver

temn.tafj.jdbc.url : IP : 52.142.208.37 Port : 1521

☐ temn.tafj.jdbc.db2.zos.mode
☐ Use Integrated Security? (Only some dbs)

Database instance : TAFJDB;MODE=Oracle;TRACE_LEVEL_FILE=0;TRACE_LEVEL_SY

Current schema :

temn.tafj.jdbc.username : t24

temn.tafj.jdbc.password : ***

Test Connection

DB2 zOS Options

temn.tafj.jdbc.db2.zos.default.t.db : T24DB900

temn.tafj.jdbc.db2.zos.default.t.tablespace : T24TS000

temn.tafj.jdbc.db2.zos.default.t.stogroup : T24STORE

temn.tafj.jdbc.db2.zos.default.t.bufferpool : BP32K2

Options

☐ temn.tafj.jdbc.write.use.merge

temn.tafj.jdbc.commit.mode :

☐ temn.tafj.jdbc.jbase.utf8

Dict Table Types : CLOB

T24 Collector

temn.tafj.t24.collector : localhost:4444

Locking setup

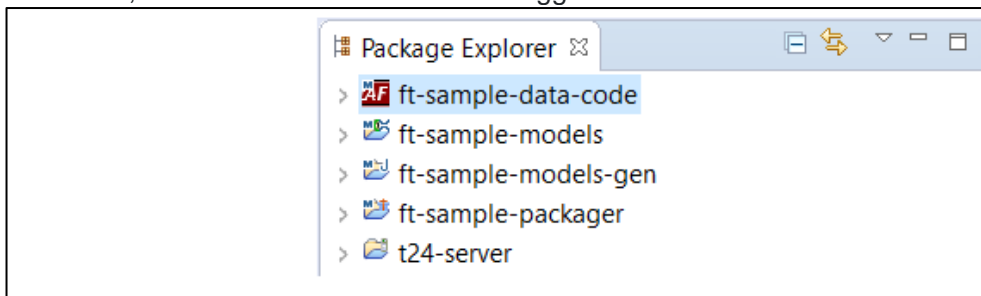
temn.tafj.locking.mode : JDBC

☐ temn.tafj.locking.callstack

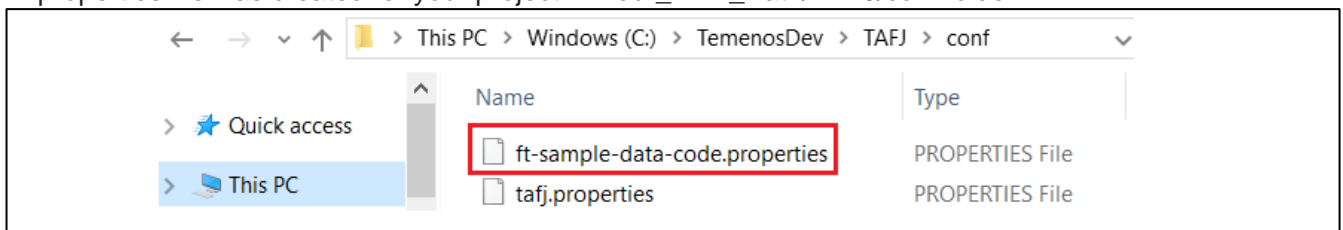
temn.tafj.locking.name :

temn.tafj.locking.hostname : IP : 127.0.0.1 Port : 7425

- In the end, **data-code** module should be toggled.



- A .properties file was created for your project in Your_DEV_Path/TAFJ/conf folder.





NOTE

If TAFJ properties for your project must be updated, make sure you update the .properties related to your project from Your_DEV_Path/TAFJ/conf folder.

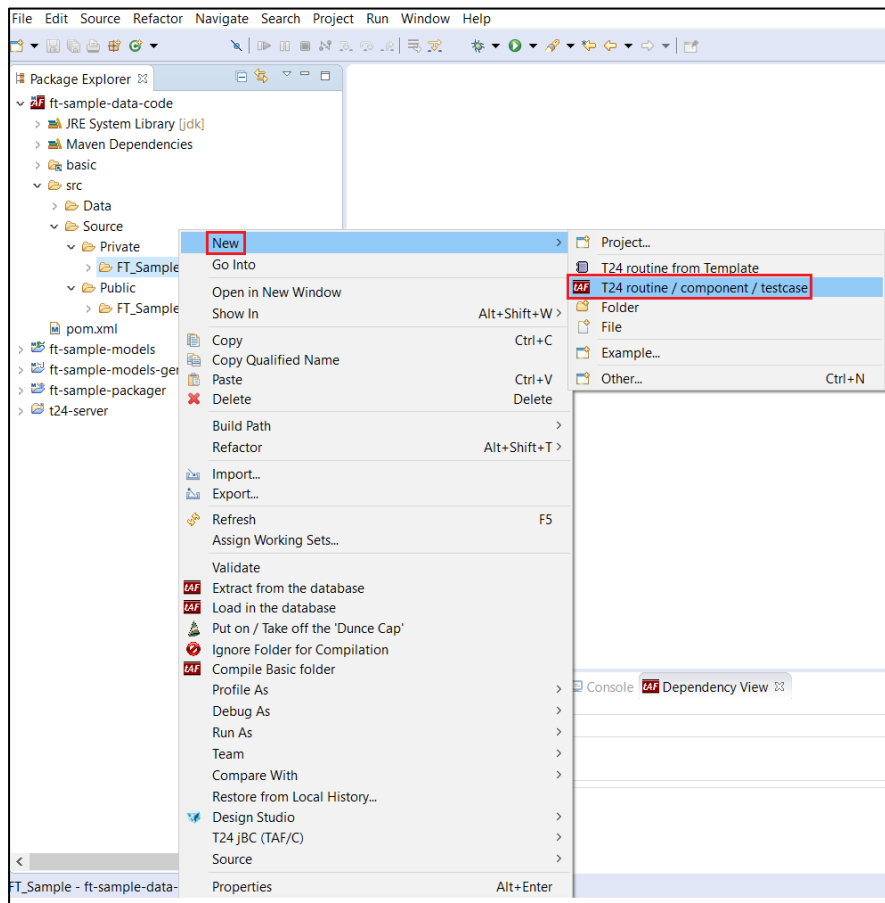
jBC Routines Development

NOTE

In order to make sure your routine will be successfully created, it is important to have set correctly all the parameters when creating a new project. If necessary, check again this section.

jBC routines are developed in the **data-code** module which must be toggled to TAFJ project nature by following next steps.

- In order to create a new jBC routine, expand **data-code** module, go to src->Source->Private, right click on project name (FT_Sample in the above picture), select **New** and then **New T24 routine / component / testcase**





- On next screen, type the name of the routine and click **Finish**.

Enter or select the parent folder:

ft-sample-data-code/src/Source/Private/FT_Sample

File name: sample_routine

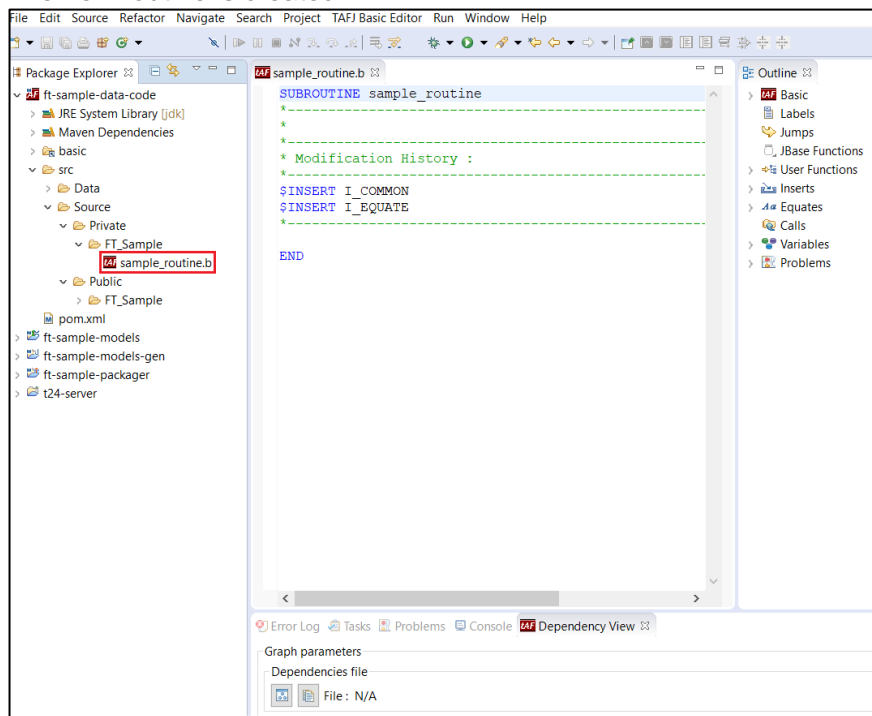
Advanced >>

Template parameters

☒ Create Subroutine
☐ Create Program
☐ Create Function
☐ Create Component
☐ Create UnitTest

Finish Cancel

- The new routine is created.

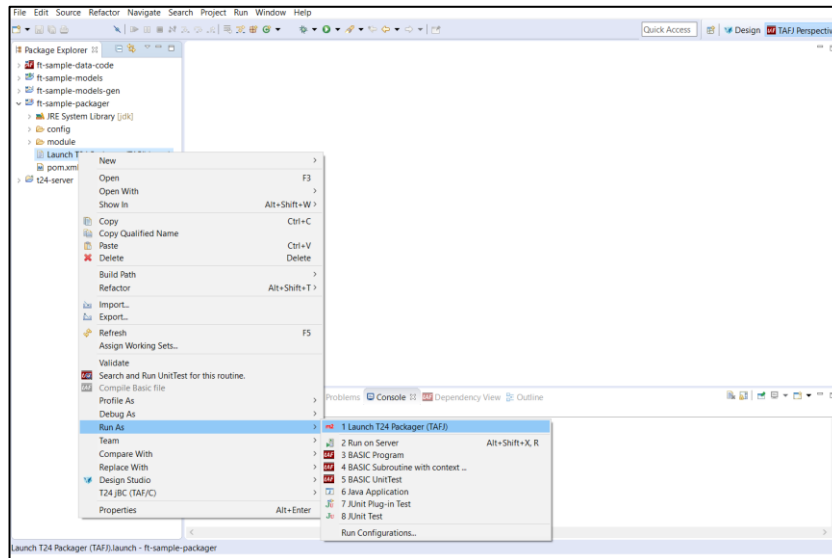




Create a T24 package based on your project

In order to deploy your developed routines in the sandbox, a T24 package must be created.

- Go to **packager** module in Design Studio workspace, right click on **Launch T24 Packager (TAFJ).launch** and choose **Run As > Launch T24 Packager (TAFJ)**.



- Wait for successful build for the project.

```
Servers Error Log Tasks Problems Console TAF Dependency View Outline
<terminated> Launch T24 Packager (TAFJ) [Maven Build] C:\TemenosDev\DesignStudio\jdk\bin\javaw.exe (Nov 16, 2017, 10:42:44 AM)
[INFO] -----
[INFO] Reactor Summary:
[INFO]
[INFO] ft-sample-data-code ..... SUCCESS [ 37.261 s]
[INFO] ft-sample-models ..... SUCCESS [ 19.707 s]
[INFO] ft-sample-models-gen ..... SUCCESS [ 55.164 s]
[INFO] ft-sample-packager ..... SUCCESS [ 0.861 s]
[INFO] ft-sample-packager-module ..... SUCCESS [ 0.022 s]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:54 min
[INFO] Finished at: 2017-11-16T10:44:40+02:00
[INFO] Final Memory: 127M/1579M
[INFO] -----
```

- Check where the **package** was generated.

```
Servers Error Log Tasks Problems Console TAF Dependency View Outline
<terminated> Launch T24 Packager (TAFJ) [Maven Build] C:\TemenosDev\DesignStudio\jdk\bin\javaw.exe (Nov 16, 2017, 10:42:44 AM)
[INFO] --- t24-project-maven-plugin:2016.3.0-SNAPSHOT:package-t24package (default-package-t24package) @ ft-sample-packager ---
[INFO] Scanning dependencies...
[INFO] Adding tafj generated project archive to the packager: C:\TemenosDev\DesignStudio\workspace\ft-sample-data-code\target\ft-sample-data-code-201
[INFO] Adding t24 generated project archive to the packager: C:\TemenosDev\DesignStudio\workspace\ft-sample-models-gen\target\ft-sample-models-gen-20
[INFO] Generating package...
[INFO] Preparing packager for: C:\TemenosDev\DesignStudio\workspace\ft-sample-packager\target\R17_FT_Sample_1_JAVA_17.0.jar
[INFO] Processing T24 projects dependencies...
[INFO] Processing DS T24 generation project dependencies...
[INFO] Processing T24 TAFJ project dependencies...
[INFO] Compiling basic files...
[INFO] Processing data files...
[INFO] Generating package...
[INFO] Package generated: C:\TemenosDev\DesignStudio\workspace\ft-sample-packager\target\R17_FT_Sample_1_JAVA_17.0.jar
[INFO] Generation done.
```

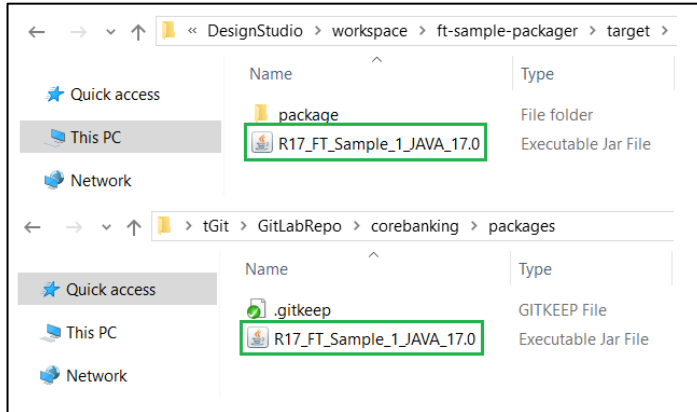


Deploy a T24 package to Sandbox

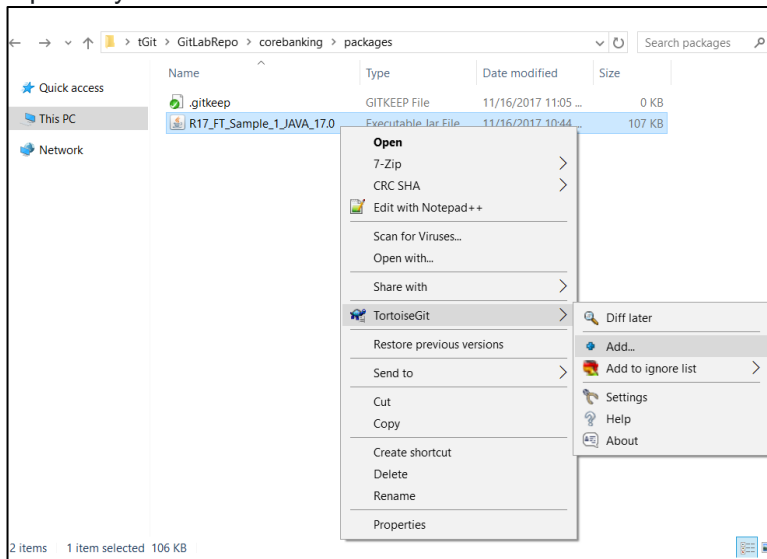
NOTE

Make sure you cloned in your local machine the GitLab repository of your sandbox.

- Copy the generated package into the **packages** folder of the cloned GitLab repository from your local machine:

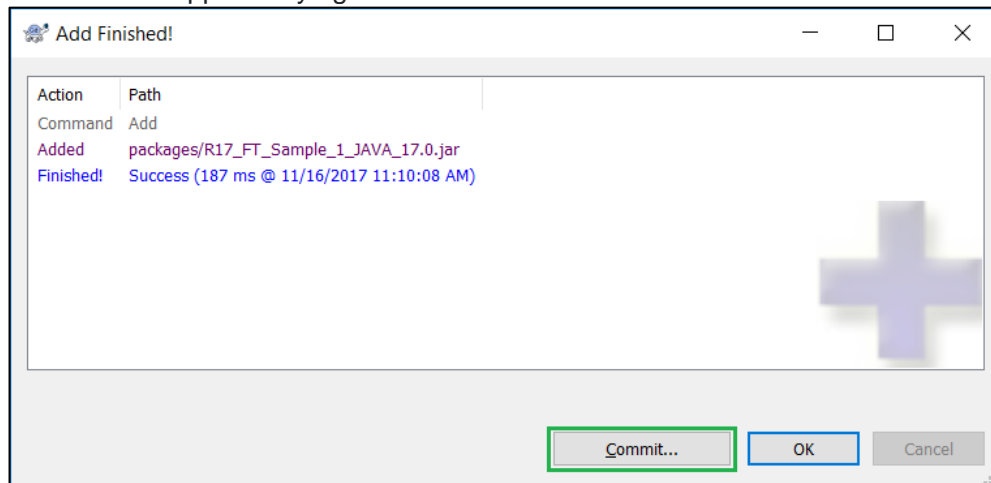


- If the package is a new file in the repository, the package must be first added to the repository:

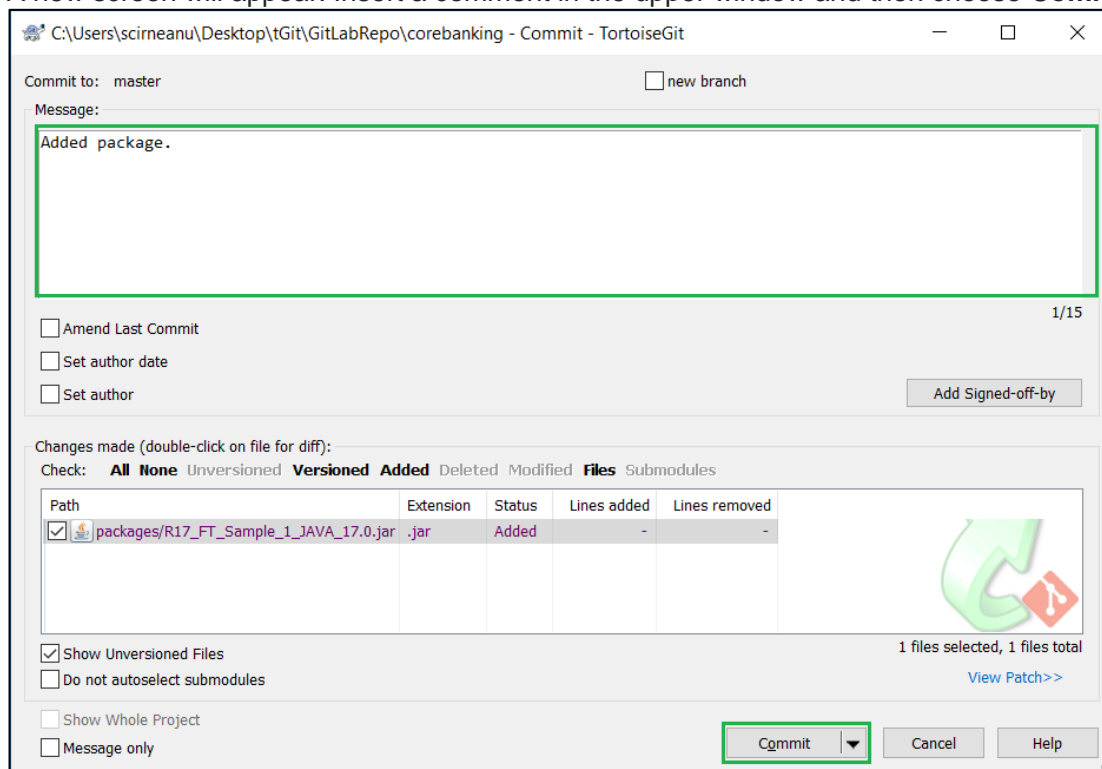




- A screen will appear saying that the file was added. Press **Commit**:

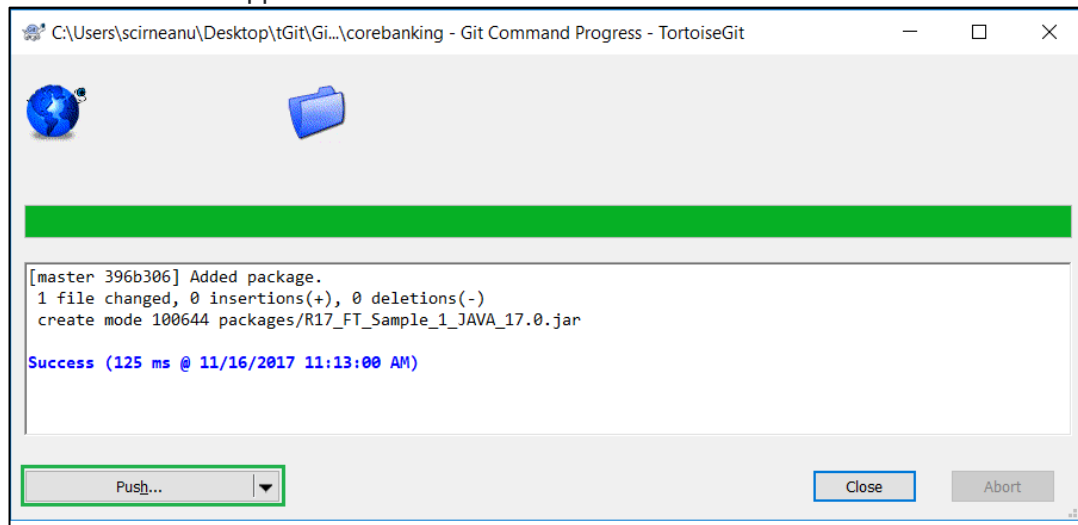


- A new screen will appear. Insert a comment in the upper window and then choose **Commit**.

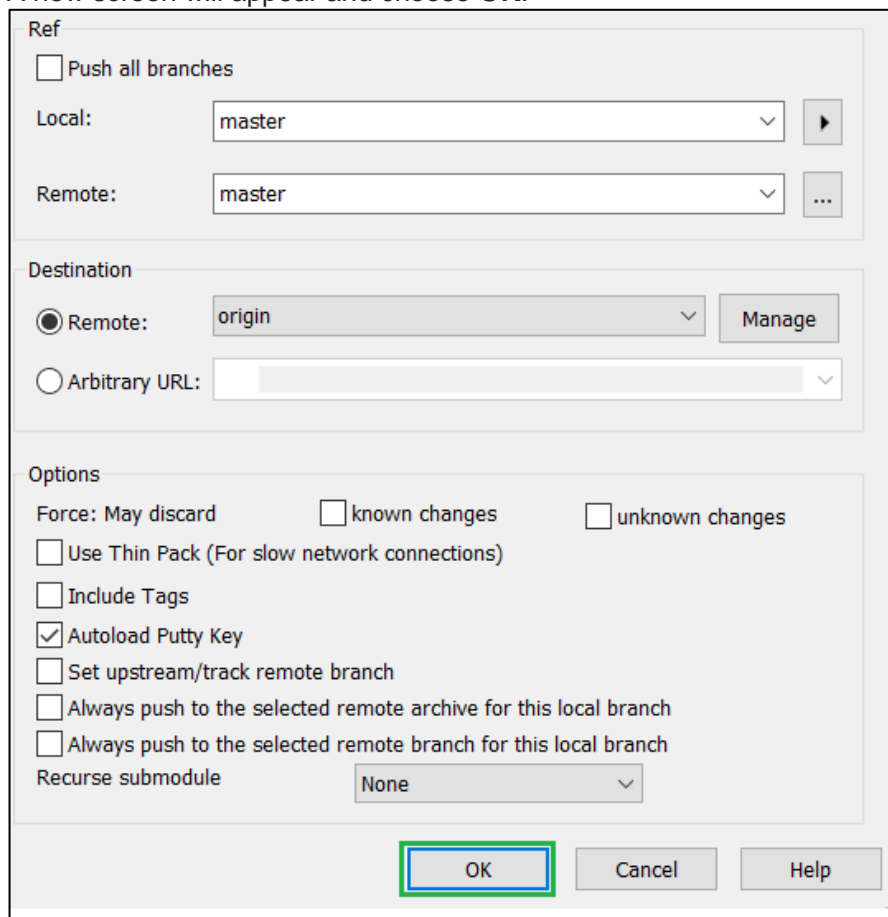




- A new screen will appear and choose **Push**.

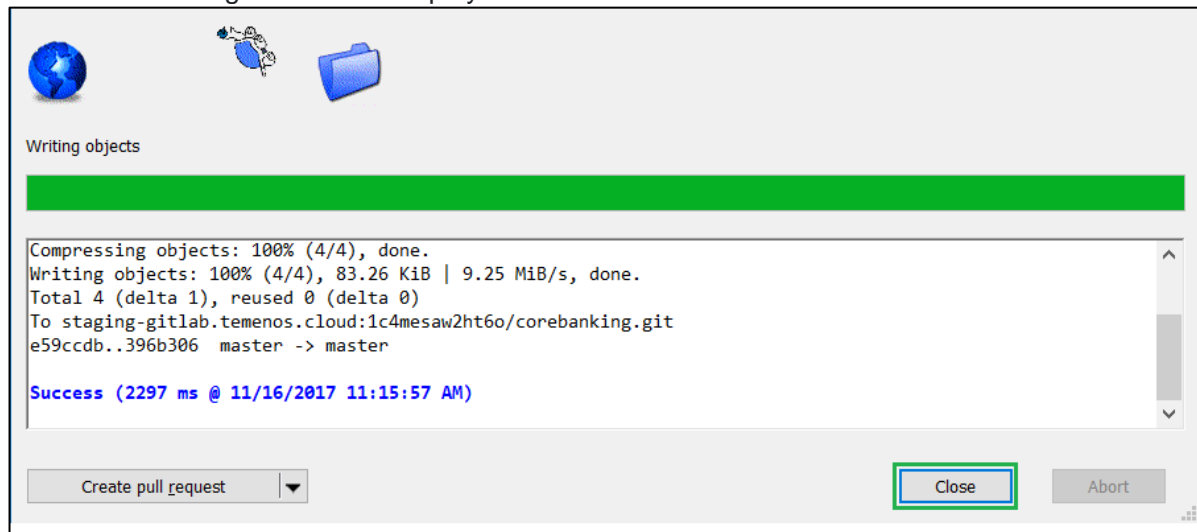


- A new screen will appear and choose **OK**.





- A success message should be displayed. Press **Close**.





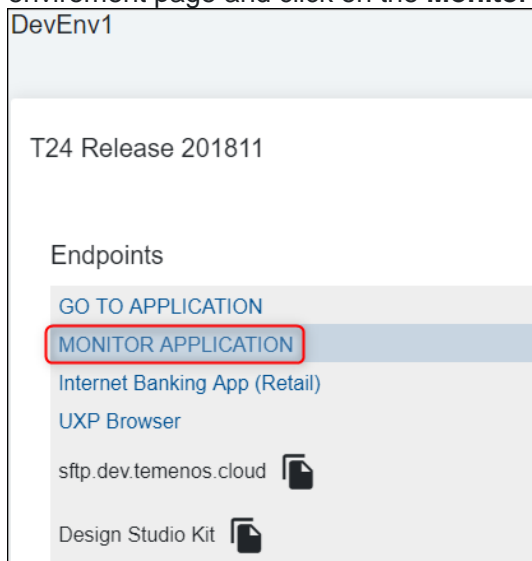
Trigger the deployment

- After committing and pushing to Environment Repository all the features, you have to deploy them in your Environment.
- Login to your organisation, select your environment, locate the Repository Application and click the Deploy button.

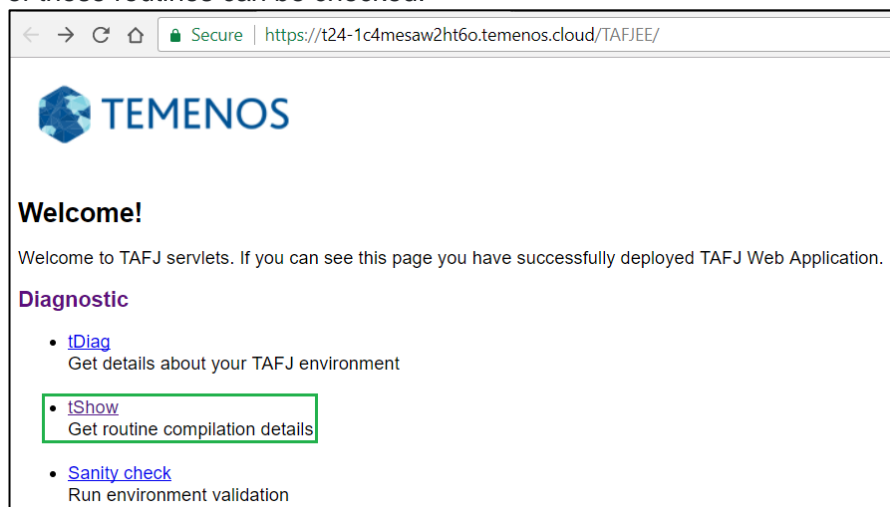
For more details about the deployment, check the following [steps](#).

Check jBC routines deployment to Sandbox

- Log-in to your organisation into the Temenos Continuous Deployment Platform, go to your environment page and click on the **Monitor Application** Endpoint for the T24 application.




- The TAFJEE page is opened. Click **tShow** to check if your developed routines were deployed in your sandbox. Details like the compilation date or the jar that contains the class of those routines can be checked.





- In the next screen, input your routine name and click **Submit**.

← → ↻ 🏠 Secure | <https://t24-1c4mesaw2ht6o.temenos.cloud/TAFJEE/tShow>

 **TEMENOS**


tShow servlet

You can get routine information by submitting your routine name in the field below.

Routine name:

- In the next screen, the details of your routine can be seen.

← → ↻ 🏠 Secure | <https://t24-1c4mesaw2ht6o.temenos.cloud/TAFJEE/tShow>

 **TEMENOS**

tShow servlet

You can get routine information by submitting your routine name in the field below.

Routine name:

sample_routine

BASIC source	C:\TemenosDev\DesignStudio\workspace\ft-sample-data-code\src\Source\Private\FT_Sample\sample_routine.b
BASIC package	
BASIC Import(s)	com.temenos.t24
JAVA class location	file:/usr/share/jbossas/modules/com/temenos/t24/main/localjars/ft_sample.jar!/com/temenos/t24/sample__routine_13_cl.class
Compilation date	16 Nov 2017 10:42:52
Compilation host	L9LW4L12-802
Compiled with TAFJ	DEV_201603.0
Timestamp	1510821772025
Grammar level	3
Include Basic Replacement	false
Dependencies check	OK

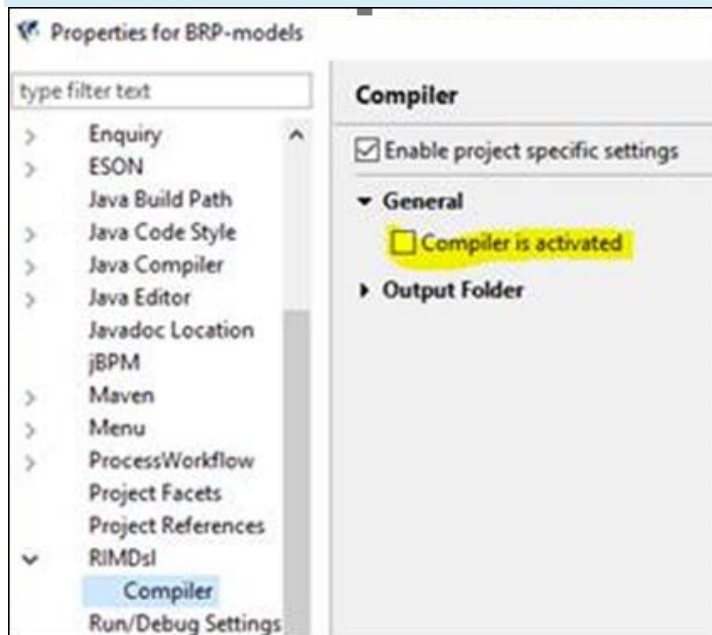


Import T24 Applications, Enquiries and Versions

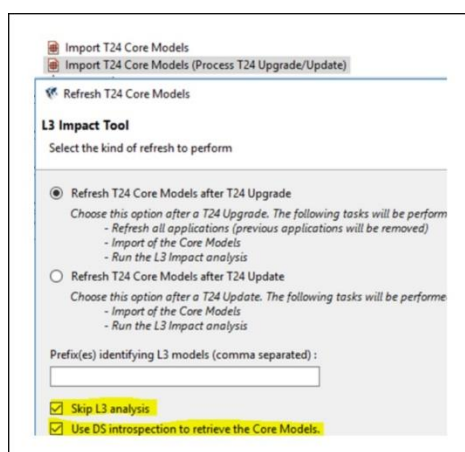
NOTE

In order to import Applications/Enquiries/Versions from your sandbox to your local machine, make sure you have a T24-server created and configured in Design Studio.

Hint: When importing artefacts from a T24 Environments on the project you need to disable the XText RIM in order to speed up the operation and install or after a T24 update/upgrade.

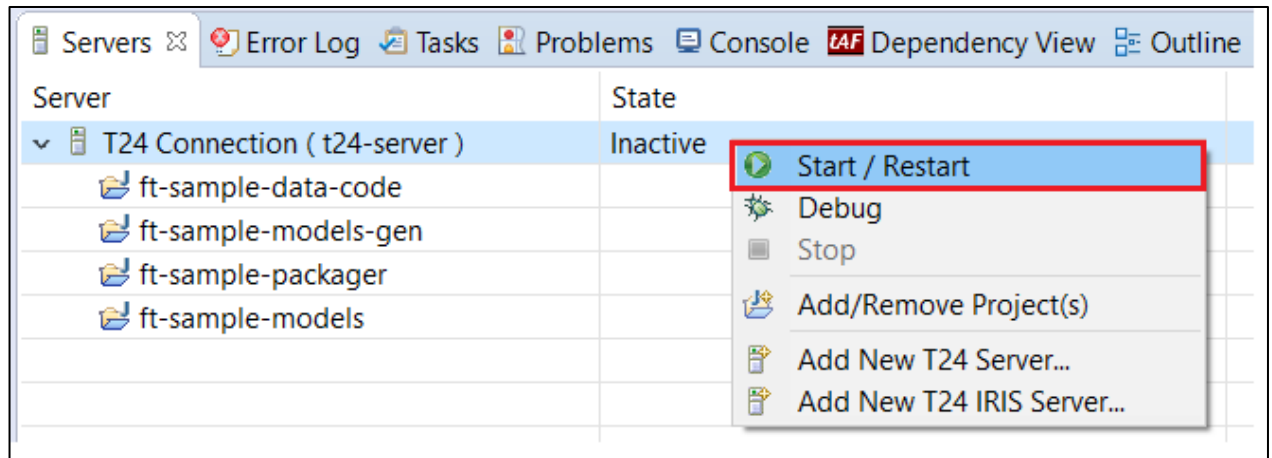


Then Import T24 Core Models or if your DS version has the Import T24 Core Models with the process after T24 update/upgrade (this tool is also available in headless mode).

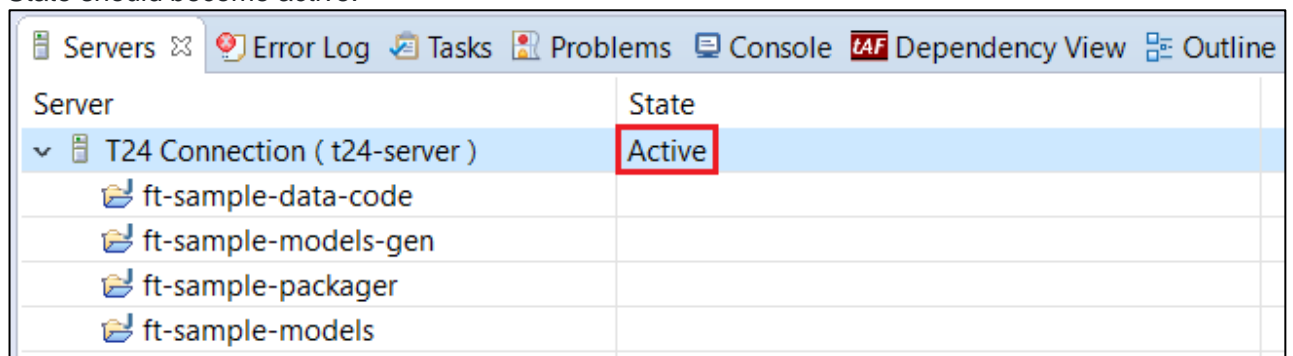




- Go to Servers tab, right click on your server state and change state to **active**.



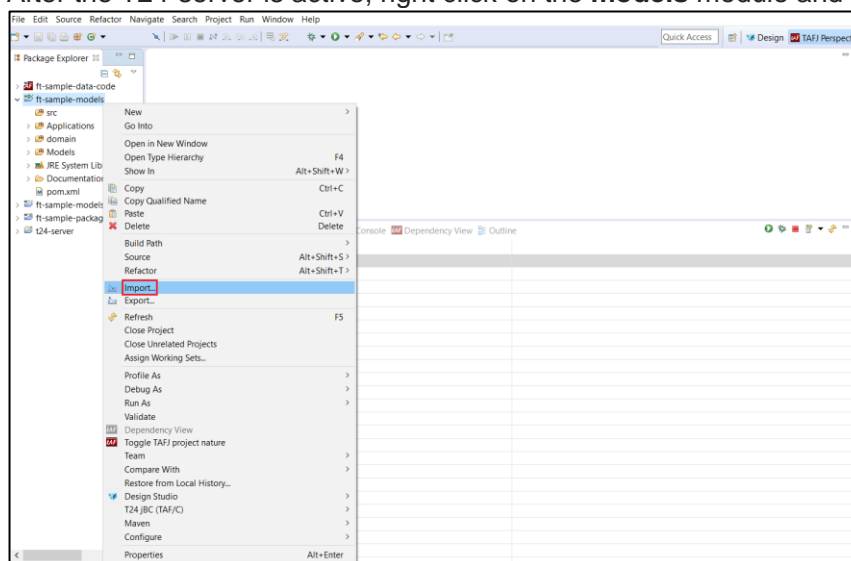
- State should become active:



NOTE

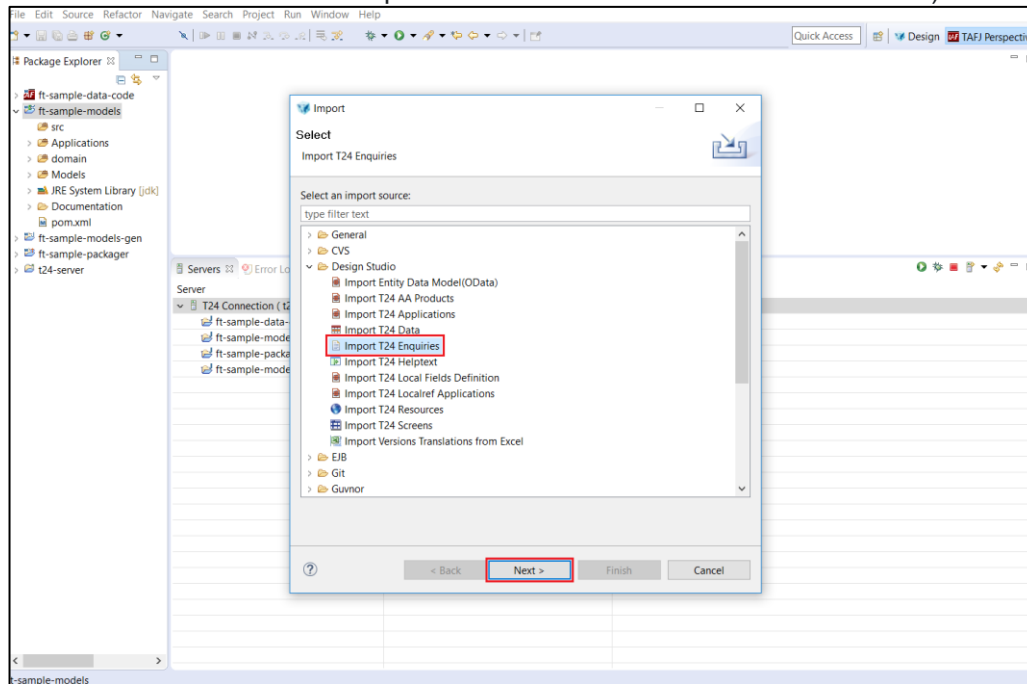
The following example is about importing Enquiries from your sandbox to your local machine. The same steps can be applied for Applications and Versions.

- After the T24-server is active, right click on the **models** module and choose **Import**:

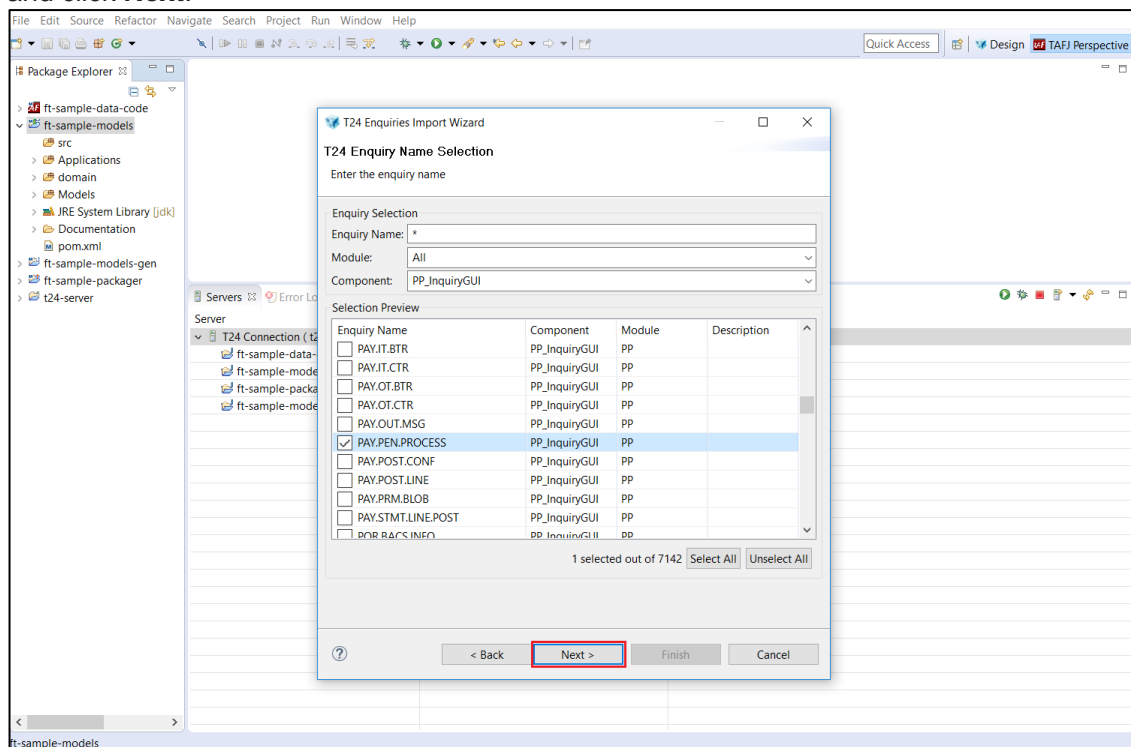




- Expand **Design Studio** item, choose **Import T24 Enquiries** and click on **Next** button. (you have to wait until the list of enquiries is fetched from the sandbox database).

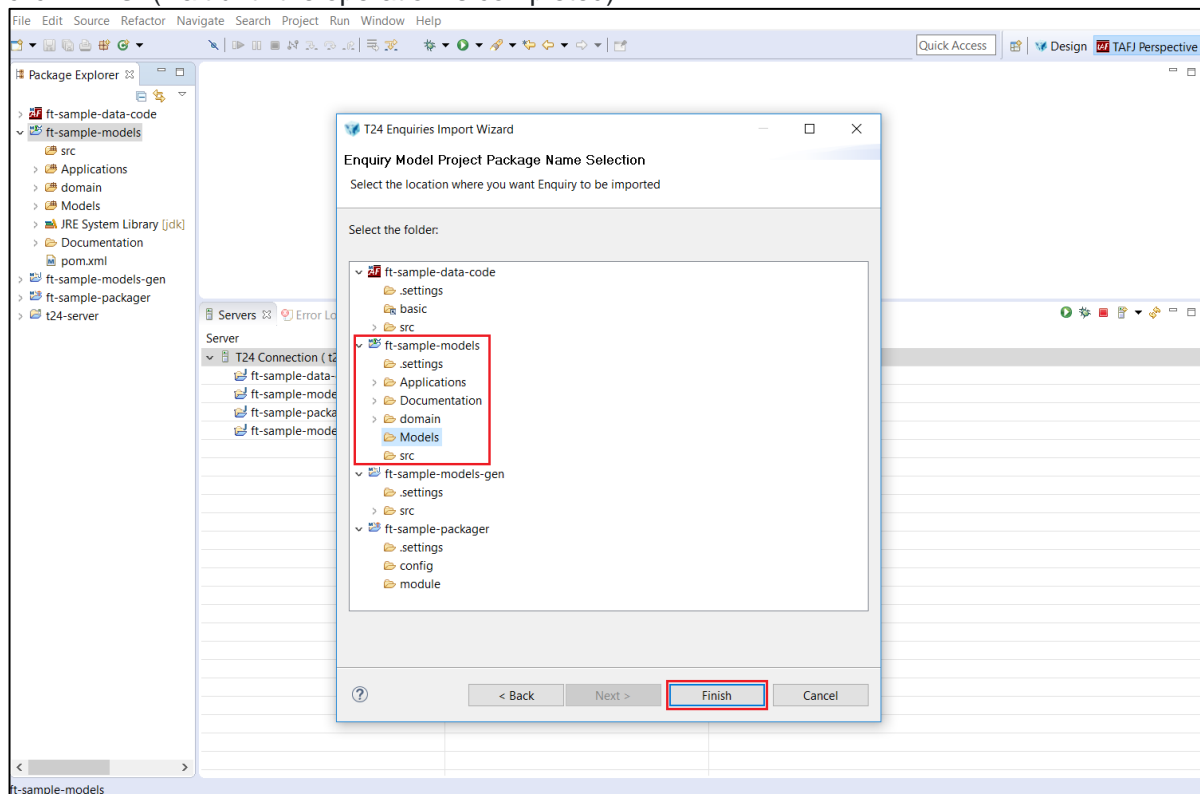


- Select from this list which enquiry you want to import from the sandbox to your local machine and click **Next**.

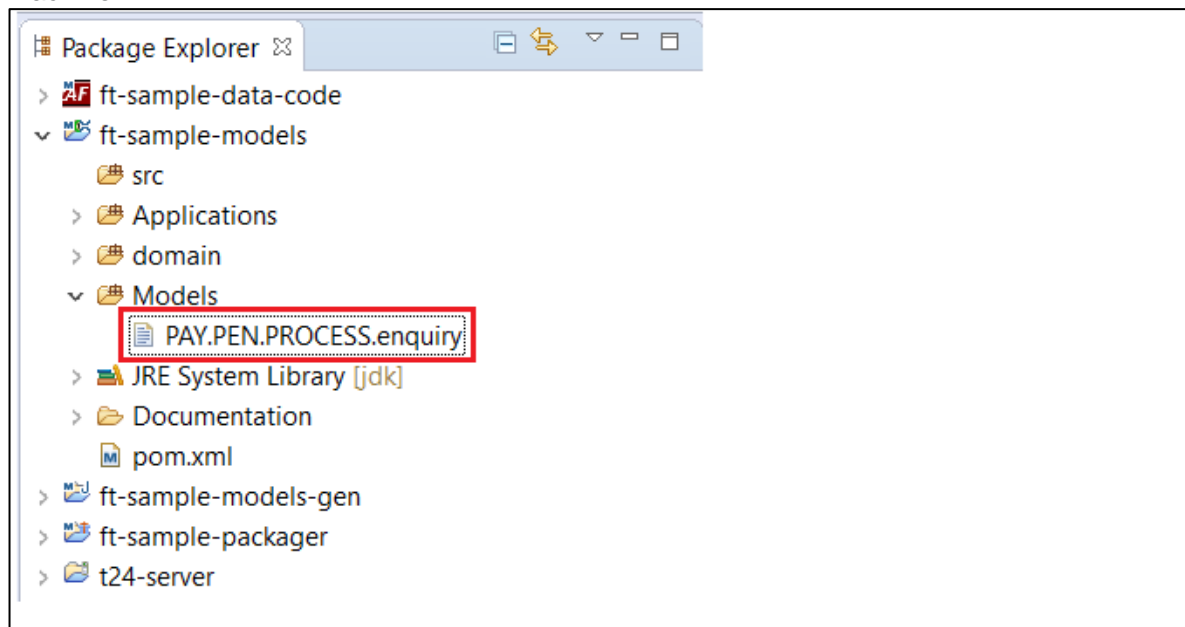




- Choose where to import the enquiry (**Models** folder from **models** module) and click **Finish** (wait until the operation is completed).



- A successful message will be displayed at the end and the enquiry will be saved in your local machine.





Export T24 Applications, Enquiries and Versions

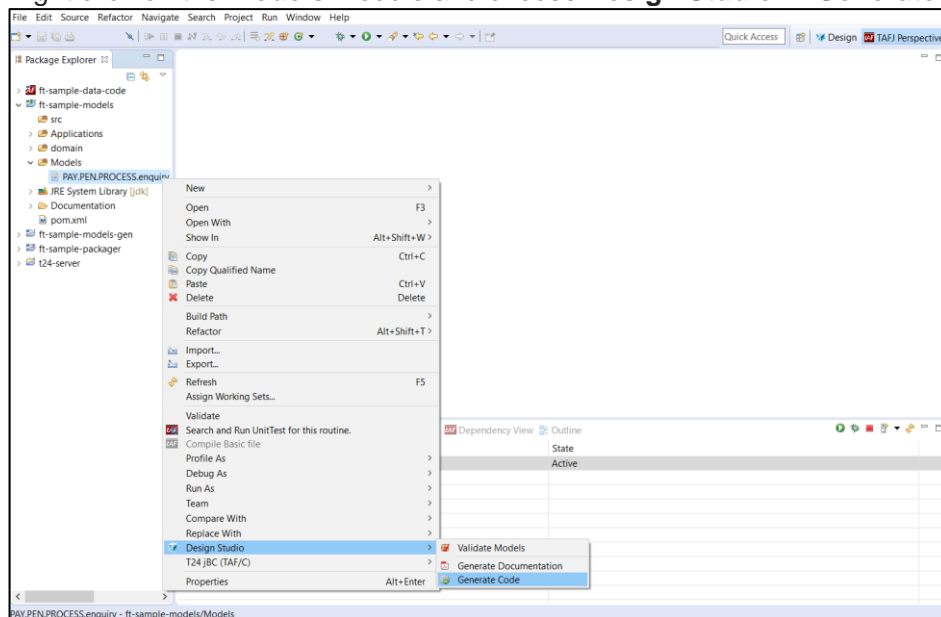
NOTE

The following example is about exporting Enquiries from your local machine to your sandbox. The same steps can be applied for Applications and Versions.

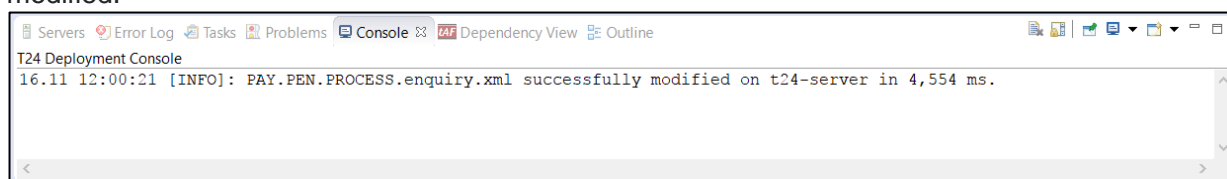
NOTE

Make sure your T24 server is set to **active**.

- Right click on the **models** module and choose **Design Studio -> Generate Code**:



- A message should be displayed saying that the enquiry was successfully modified.

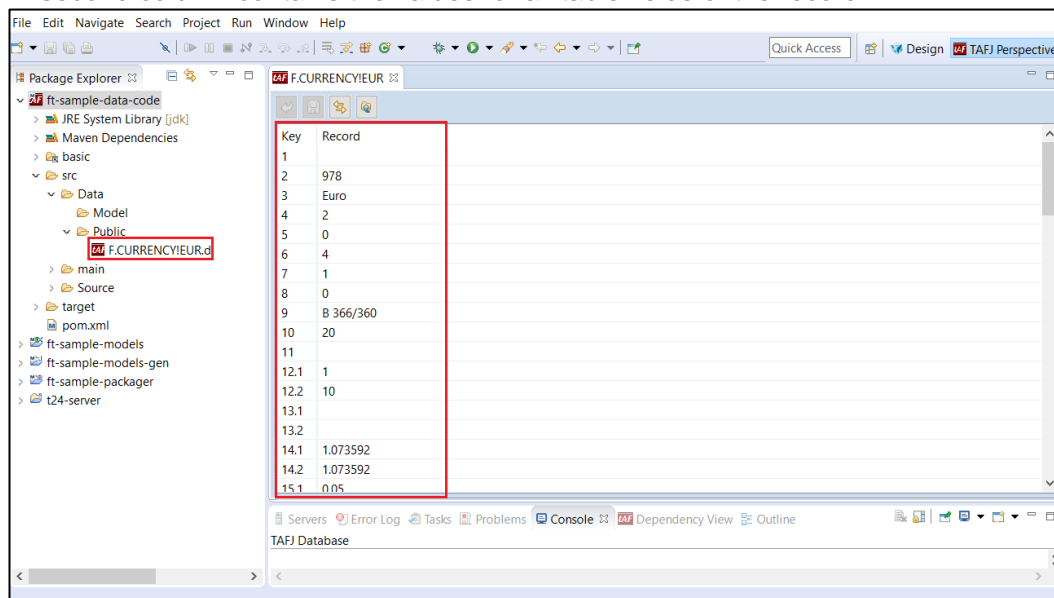




Data (.d) files

A data(.d) file represents a details viewer of a record from the database. A data file has 2 columns:

- > first column contains the unique number of all table fields of the record;
- > second column contains the values for all table fields of the record.



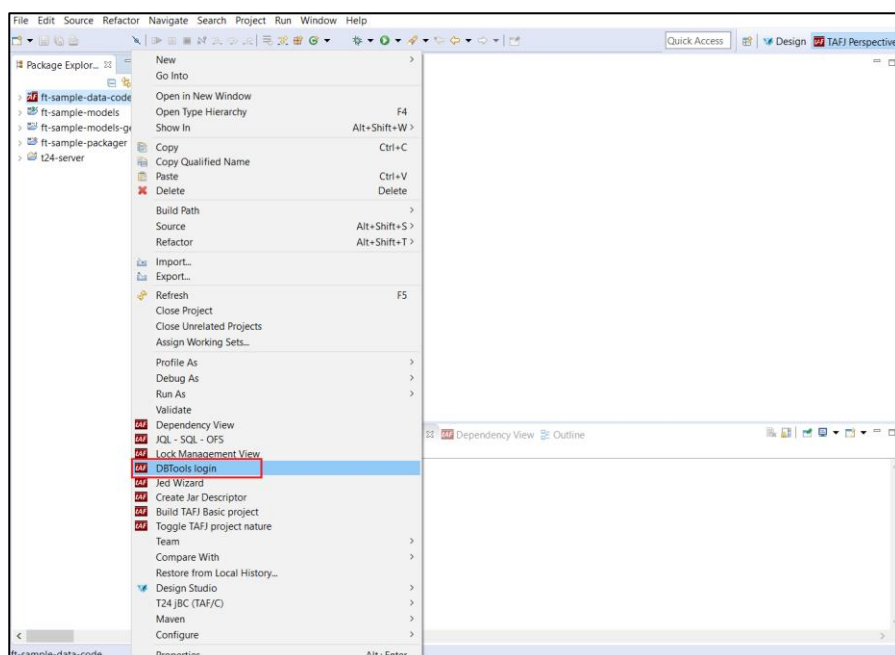
Key	Record
1	
2	978
3	Euro
4	2
5	0
6	4
7	1
8	0
9	B 366/360
10	20
11	
12.1	1
12.2	10
13.1	
13.2	
14.1	1.073592
14.2	1.073592
15.1	0.05

NOTE

Assuming that your **date-code** module is toggled to TAFJ project nature, make sure you update the .properties file related to your project from Your_DEV_Path/TAFJ/conf folder with the private database IP of your sandbox.

Before starting to extract/load data files from/to your sandbox database, you must login to TAFJ-DBTools.

-> Right click on your **data-code** module and select **DBTools login**.





-> A wizard will appear in which you must type the DBTools credentials(which can be found in Add_DBTools_User.bat file from Your_DEV_Path) and click **Finish**.

DBTools authentication

Authenticate user

Authenticated user : None

☐ Switch user You have to relaunch JQL/SQL editor and JED editor when switching user

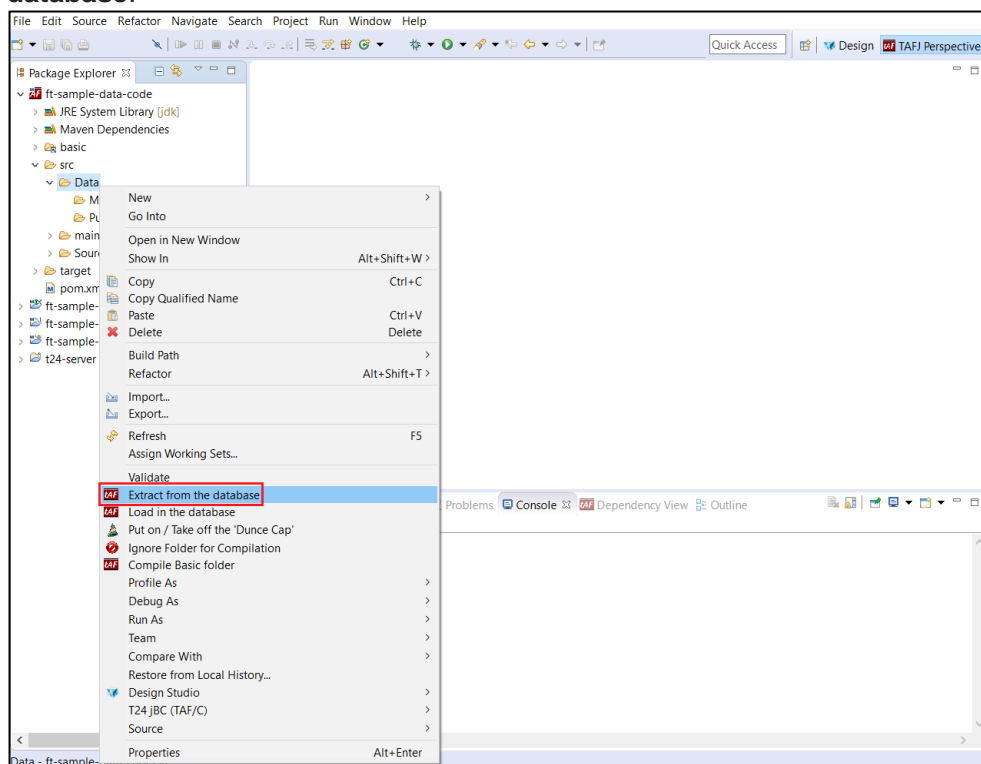
User name : admin

Password : *****

Finish Cancel

Extract data files from the database

- Expand **data-code** module, go to src, right click on **Data** and select **Extract from the database**.





- The below wizard will appear. Make sure the URL of the Database contains the correct database IP of your sandbox. Otherwise, you have update your .properties file related to your project from Your_DEV_Path/TAFJ/conf folder.

Extract Data Wizard for Project: ft-sample-data-code

The field 'Table Name' is mandatory.

Database Parameters
URL : jdbc:h2:tcp://52.142.208.37/TAFJDB

File Parameters
File Encoding : UTF-8
File on the disk : C:\TemenosDev\DesignStudio\workspace\ft-sample-data-code\src\Data
☐ Single Byte Separator (TAFC Compatible)

Table(s) and Record(s)
Table Name :
Record ID :

Finish Cancel

- Type the Table Name and Record ID and click **Finish**.

Extract Data Wizard for Project: ft-sample-data-code

Extract Data in the Database

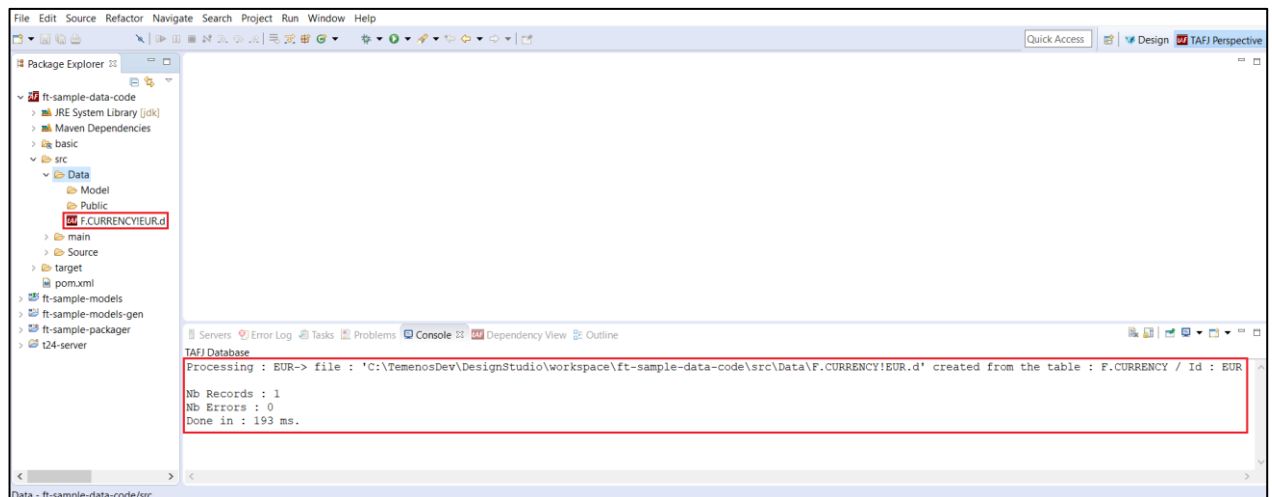
Database Parameters
URL : jdbc:h2:tcp://52.142.208.37/TAFJDB

File Parameters
File Encoding : UTF-8
File on the disk : C:\TemenosDev\DesignStudio\workspace\ft-sample-data-code\src\Data
☒ Single Byte Separator (TAFC Compatible)

Table(s) and Record(s)
Table Name : FBNK.CURRENCY
Record ID : EUR

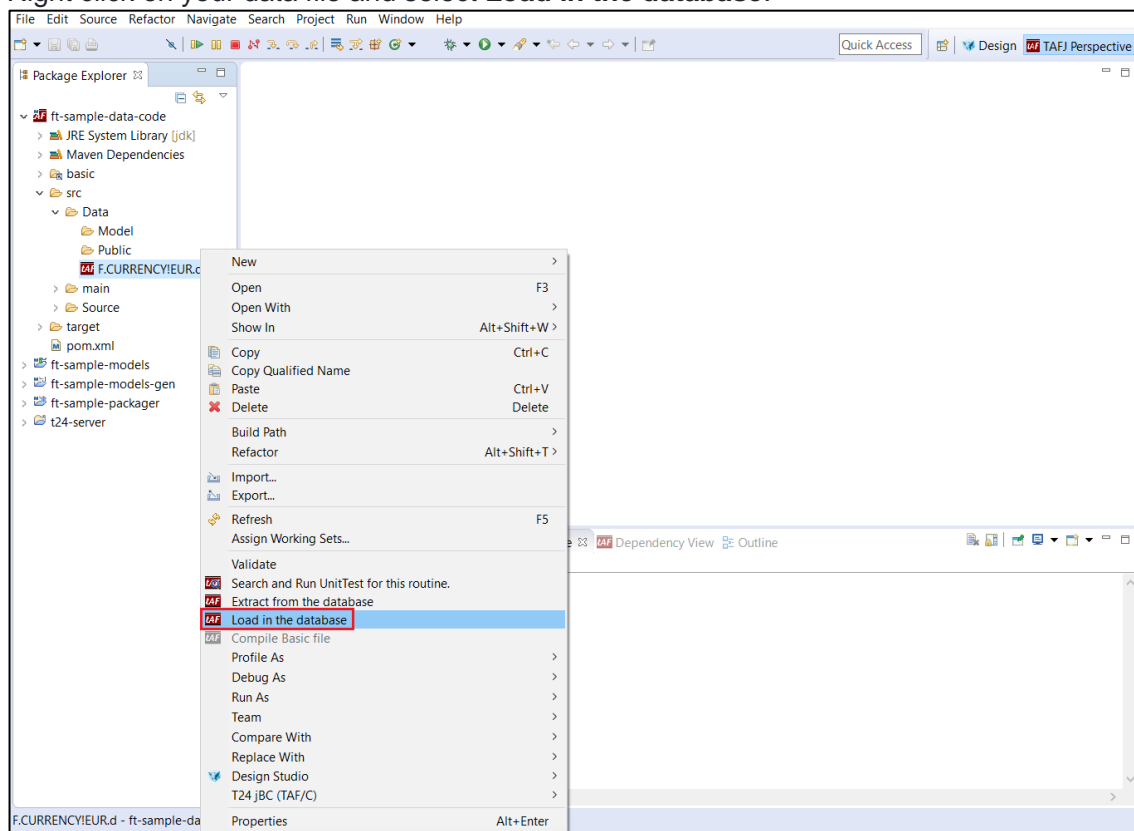
Finish Cancel

- Check the console log to see if the data files was extracted.



Load data files in the database

- Right click on your data file and select **Load in the database**.



- The bellow wizard will appear and click **Finish**. Make sure the URL of the Database contains the correct database IP of your sandbox. Otherwise, you have update your .properties file related to your project from Your_DEV_Path/TAFJ/conf folder.



Load Data Wizard for Project: ft-sample-data-code

Load Data in the Database

Database Parameters

URL : jdbcch2:tcp://52.142.208.37/TAFJDB

File Parameters

File Encoding : UTF-8

File on the disk : C:\TemenosDev\DesignStudio\workspace\ft-sample-data-code\src\Data\F.CURRENCY!EUR.d

☒ Single Byte Separator (TAFC Compatible)

Table(s) and Record(s)

Table Name : F.CURRENCY

Record ID : EUR

T24 Specific

☐ Load in \$NAU (Not Authorize record) table

Finish Cancel

- A success message should be displayed in the console.

Servers Error Log Tasks Problems Console TAF Dependency View Outline

TAFJ Database

File loaded in the table : F.CURRENCY record Id : EUR

For more tutorials on how Design Studio works, please check [here](#).