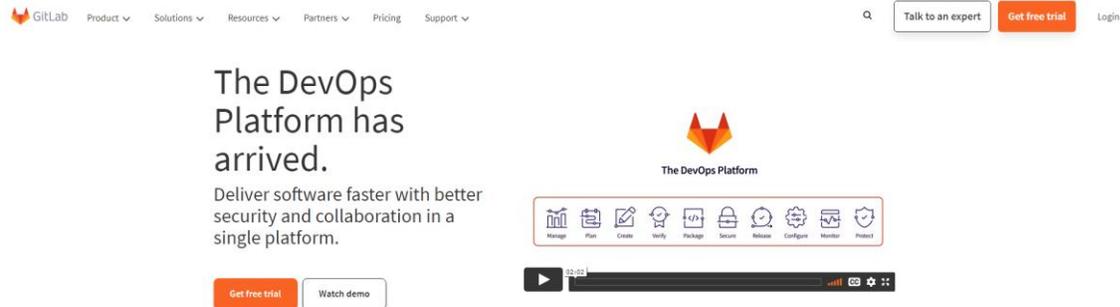


Step-by-Step guide for participants for testing the PCCT workflow in Legend

GITLAB

To begin the workflow you will need a GitLab account. Please create a Gitlab account here <https://gitlab.com>. You will reach the landing page below to create a Gitlab ID.



GitLab.com

GitLab.com offers free unlimited (private) repositories and unlimited collaborators.

- [Explore projects on GitLab.com](#) (no login needed)
- [More information about GitLab.com](#)
- [GitLab Community Forum](#)
- [GitLab Homepage](#)

By signing up for and by signing in to this service you accept our:

- [Privacy policy](#)
- [GitLab.com Terms](#).

Username or email

Password

Remember me [Forgot your password?](#)

[Sign in](#)

Don't have an account yet? [Register now](#)

Sign in with

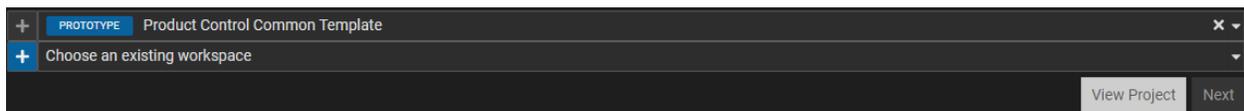
Google

GitHub

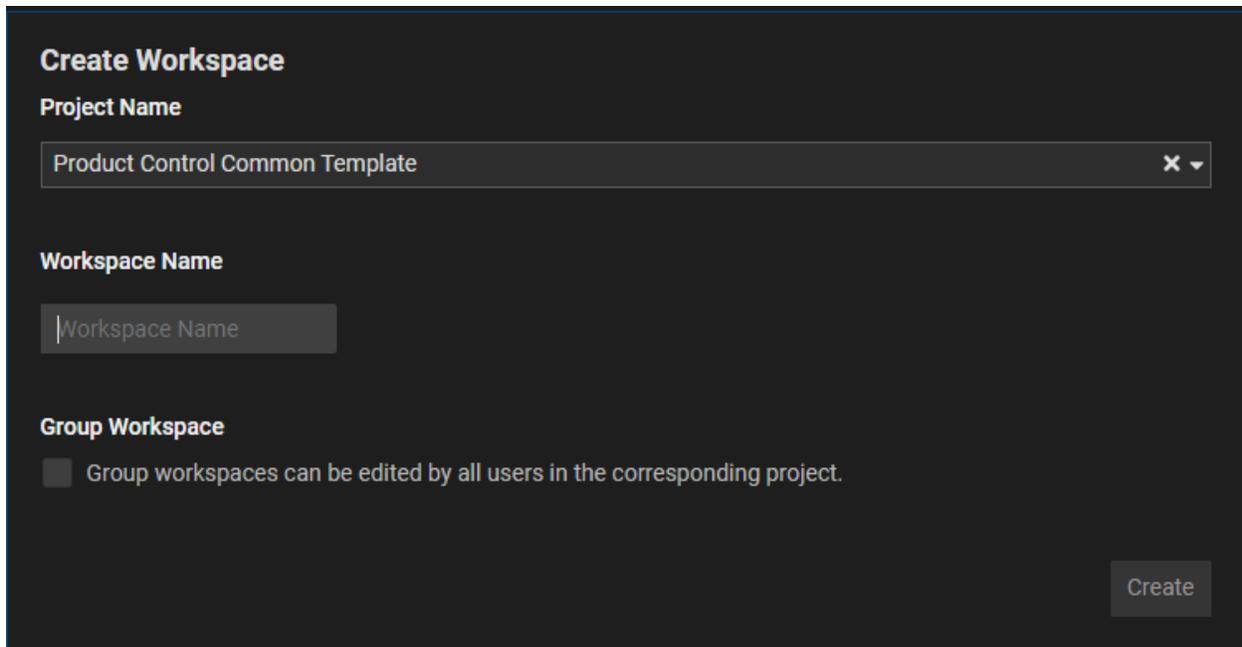
FINOS

Once Gitlab account is created, register to access FINOS Legend from <https://www.finos.org/legend>. Access the FINOS Legend in <https://legend.finos.org/studio/-/setup>

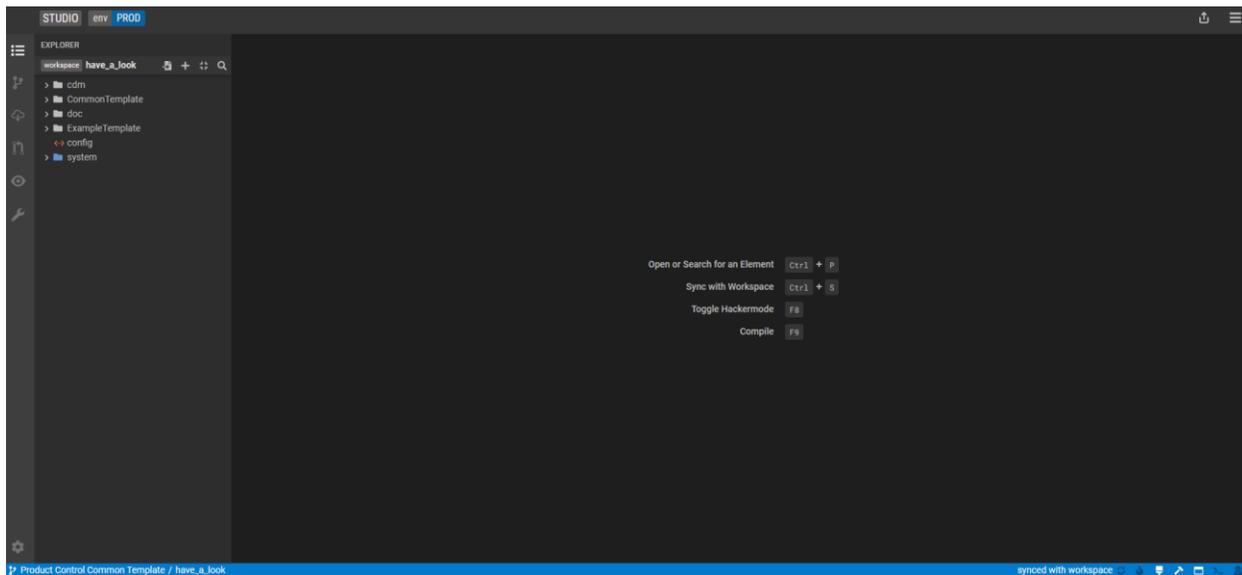
Select project “Product Control Common Template” in FINOS Legend or simply use the project link <https://legend.finos.org/studio/-/setup/UAT-28797000>



Create a workspace to access the project.



After you have created your workspace, select the workspace from the second drop down menu and hit **Next**, this will bring you to the landing page of the project



On the left side structure tree, you will be able to see

1. Example Template
 - a. ExCsvSchema – this define the CSV sample template model in Legend
 - b. ExCsv – which is the corresponding data model for the sample template
 - c. ExCsvToCommonEqOption – the model to model mapping to transform the sample template model to EqOption model
2. Common Template
 - a. EqOptionTemplate – this is the agreed standard template for vanilla equity option

- b. EqOptionToCdmMapping - the model to model mapping to transform the EqOption to CDM
- 3. CDM
 - a. It contains all the CDM attributes
- 4. Doc
 - a. ExampleTemplateData
 - b. README – this includes the guideline on how to use the JAR and also shared on the below.

=====

How to use the JAR

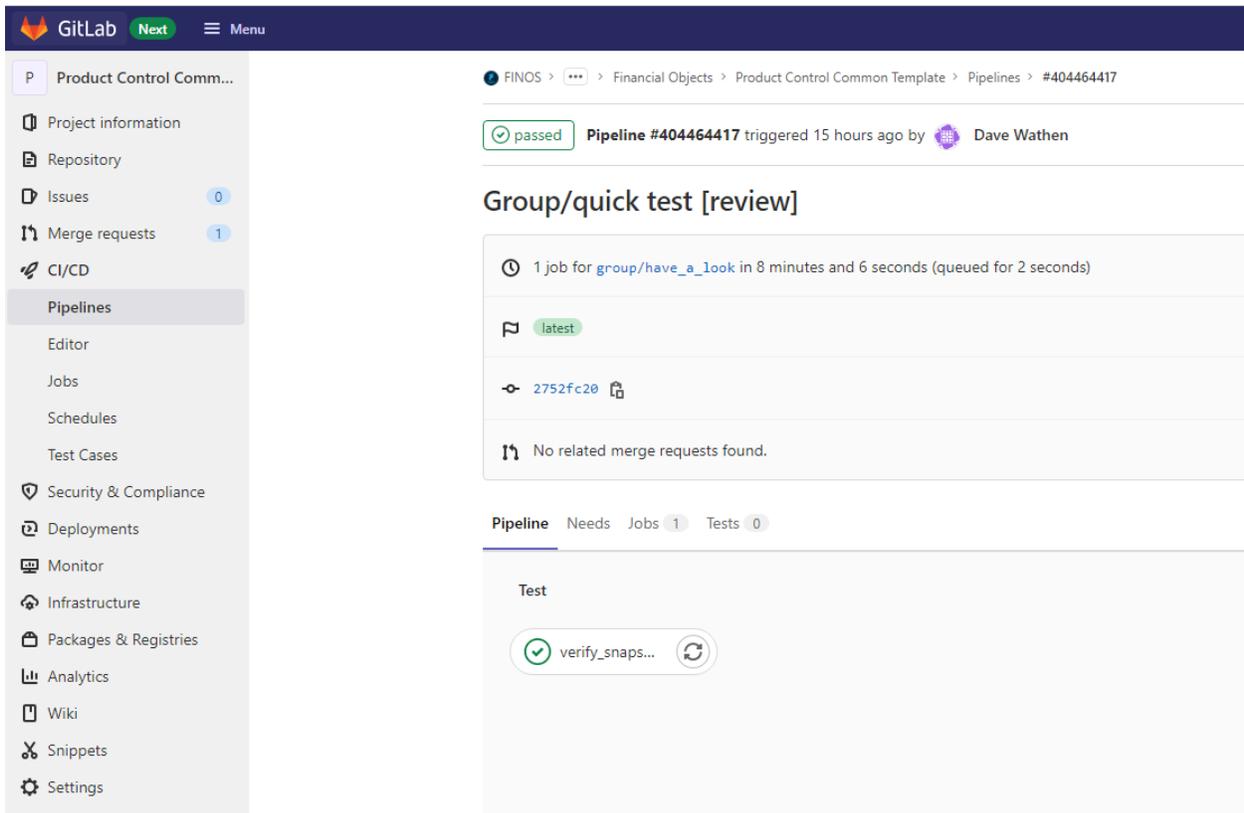
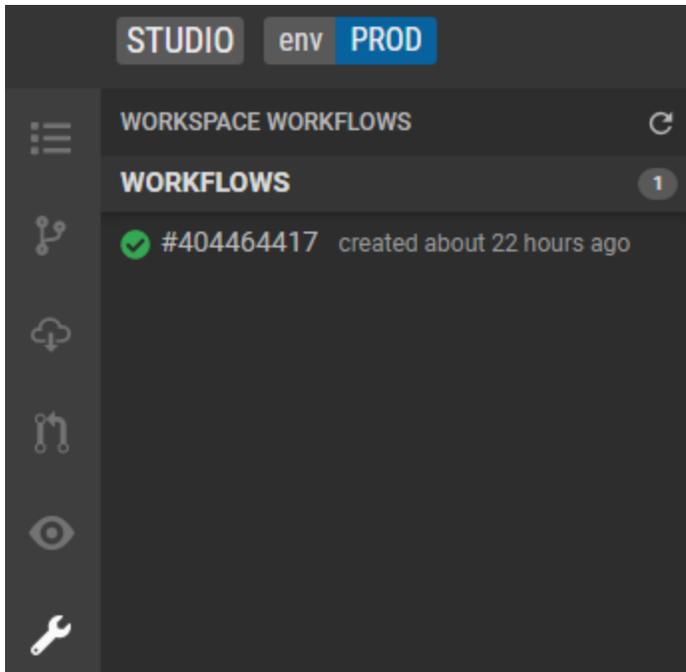
This document assumes knowledge of Java and Maven.

Once a JAR is available from the pipeline it can be demonstrated to read the template and translate to CDM as follows:

1) Create a Maven project of the following structure:

```
template-demo
|-src
| |-main
| | |-java
| | |-org
| | |-finos
| | |-demo
| |   |-Demo.Java (copy content from doc::DemoJava)
| |-resources
|   |-Sample.csv (copy content from doc::ExampleTemplateData)
|-pom.xml (copy content from doc::DemoPom)
```

2) Go to the **Workspace Builds** on the left panel and select latest flow, it will redirect you to the Gitlab Project. If there is no existing workflows, you can also go to the Gitlab project and find the workflows under the **Pipelines** section (<https://gitlab.com/finosfoundation/legend/financial-objects/product-control-common-template/-/pipelines>).



Go to **Jobs** hit the **verify_snapshot** link

Status	Name	Job ID	Coverage
Test			
passed	verify_snapshot	#176008871	00:08:06 15 hours ago

The screenshot shows the GitLab CI/CD interface. On the left is a sidebar with navigation options like Project information, Repository, Issues, Merge requests, CI/CD, Pipelines, Editor, Jobs, Schedules, Test Cases, Security & Compliance, Deployments, Monitor, Infrastructure, Packages & Registries, Analytics, Wiki, Snippets, and Settings. The main area displays the logs for the 'verify_snapshot' job, which includes Maven commands and build output. On the right, there is a 'Jobs artifacts' section for the 'verify_snapshot' job, showing a 'Browse' button and a 'Download artifacts archive' button.

On the right hand side under **Jobs artifacts**, click the **Browse** button.

The screenshot shows the 'Artifacts' page in GitLab. At the top, it indicates the pipeline is 'passed' and shows the job ID '#176008871' in pipeline '#404464417'. Below this, there is a 'Download artifacts archive' button. A table lists the artifacts:

Name	Size
artifacts	
test-reports	

Expand the artifacts folder and download the following files from the artifacts of the pipeline in GitLab.com.

- * the parent pom file
- * the service-execution jar file
- * the service-execution pom file

FINOS > Financial Objects > Product Control Common Template > Jobs > #176008871 > Artifacts

passed Job #176008871 in pipeline #404464417 for 2752fc20 from group/have_a_look by Dave Wathen 15 hours ago

Artifacts / artifacts Download artifacts archive

Name	Size
..	
common-template-entities-group_have_a_look-20211108.160242-1.jar	1.47 MB
common-template-entities-group_have_a_look-20211108.160242-1.pom	3.29 KB
common-template-file-generation-group_have_a_look-20211108.160414-1.jar	1.89 KB
common-template-file-generation-group_have_a_look-20211108.160414-1.pom	1.27 KB
common-template-group_have_a_look-20211108.155718-1.pom	6.51 KB
common-template-service-execution-group_have_a_look-20211108.160355-1-sources.jar	308 KB
common-template-service-execution-group_have_a_look-20211108.160355-1.jar	727 KB
common-template-service-execution-group_have_a_look-20211108.160355-1.pom	2.09 KB
common-template-versioned-entities-group_have_a_look-20211108.160247-1.jar	1.63 MB
common-template-versioned-entities-group_have_a_look-20211108.160247-1.pom	1.25 KB

3) Install the downloaded files into your local repository using the following command. In a real project this would come from an authoritative repository; this is just for demo purposes.

```
> mvn install:install-file -Dfile=<path-to-parent-pom> -DpomFile=<path-to-parent-pom>
> mvn install:install-file -Dfile=<path-to-service-execution-jar> -DpomFile=<path-to-service-execution-pom>
```

4) Update the properties in pom.xml of the template-demo project to ensure they are as follows:

- * `template.groupId` = groupId of the Legend project (should not need to change)
- * `template.artifactId` = artifactId of the Legend project (should not need to change)
- * `template.workspace` = the workspace you created. If this is a group workspace then prefix it with 'group_'.

5) If it is a personal workspace prefix it with 'workspace_<owner>_' where <owner> is your GitLab account id.

If the `template.groupId` and/or `template.artifactId` did need adjusting in step 4, the imports in `Demo.java` will need to be adjusted in line with those changes.

6) Build and run:

```
> mvn compile exec:java -Dexec.mainClass="org.finos.demo.Demo"
```

This should print a message showing the file containing the output in CDM JSON form