**Manual for How to use Conan with OpenTwin**

**Prerequisites**: Make sure to install python (version >= 3.10) and conan (version >= 1.50).

For using Conan with OpenTwin, make sure to have an account for the Artifactory. If you do not have an account yet, contact the administrator. After you have an account open your shell and perform the following command

to add the Artifactory to your local machine.

Now you need to create two profiles: one for the release mode and one for debug mode. For that perform the following command in your shell:

Now go into the directory in which the profile has been created and open it, copy what is in this file, open a new tab in Notepad++, paste it in and safe it as debug\_profile. Now change “build\_type=release” to “build\_type=debug” and safe it again.

**How to publish a package to the Artifactory, if the Dependency is available in the Conan Center Index (CCI)?**

Perform the following command in your shell

to login with your account and

to upload the package to the Artifactory. As a last step, update the requirements section in the conanfile.txt in the root folder with <name\_of\_dependency>/<version>.

**How to publish a package to the Artifactory, if the Dependency is not available in the Conan Center Index (CCI)?**

If you have a dependency which is not available on the CCI ([JFrog ConanCenter - The Central Repository for C / C++ packages](https://conan.io/center/)) do the following: create a directory which has the needed dependency and a conanfile.py, build it and if it was successful, you are ready to push that package to the Artifactory. In the shell, change into your directory in which you have the dependency. Now, perform following commands in your shell

Now perform the following command to push it to the Artifactory

Now your dependency should be on the Artifactory. As a last step, update the requirements section in the conanfile.txt in the root folder with <name\_of\_dependency>/<version>@opentwin/thirdparty.

The conanfile.py should look something like the following:

****

.

**How to update a dependency in the Artifactory?**

If the dependency which you want to update exists on the CCI, pull it with



and upload it with



If it does not exist in the CCI, then compare the old version with the new version. Adapt the changes in the old one (put code from the new version into the old one), update the conanfile.py (version and url) and create a new package according to the section “How to publish a package to the Artifactory, if the Dependency is not available in the Conan Center Index (CCI)?”.