IBM Education Assistant

IBM Rational ClearCase™ (version 7.x)
Unified Change Management™

Exercise 2: Creating UCM Projects

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Contributors: Marcus Matic, Alex Grillakis, and Will Frontiero

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What is a UCM Project:

UCM Projects are UCM objects that contain configuration information used to set default behavior and policies that govern how developers open and update the set of files and directories used by the project. You must be the project owner or privileged user to modify project properties.
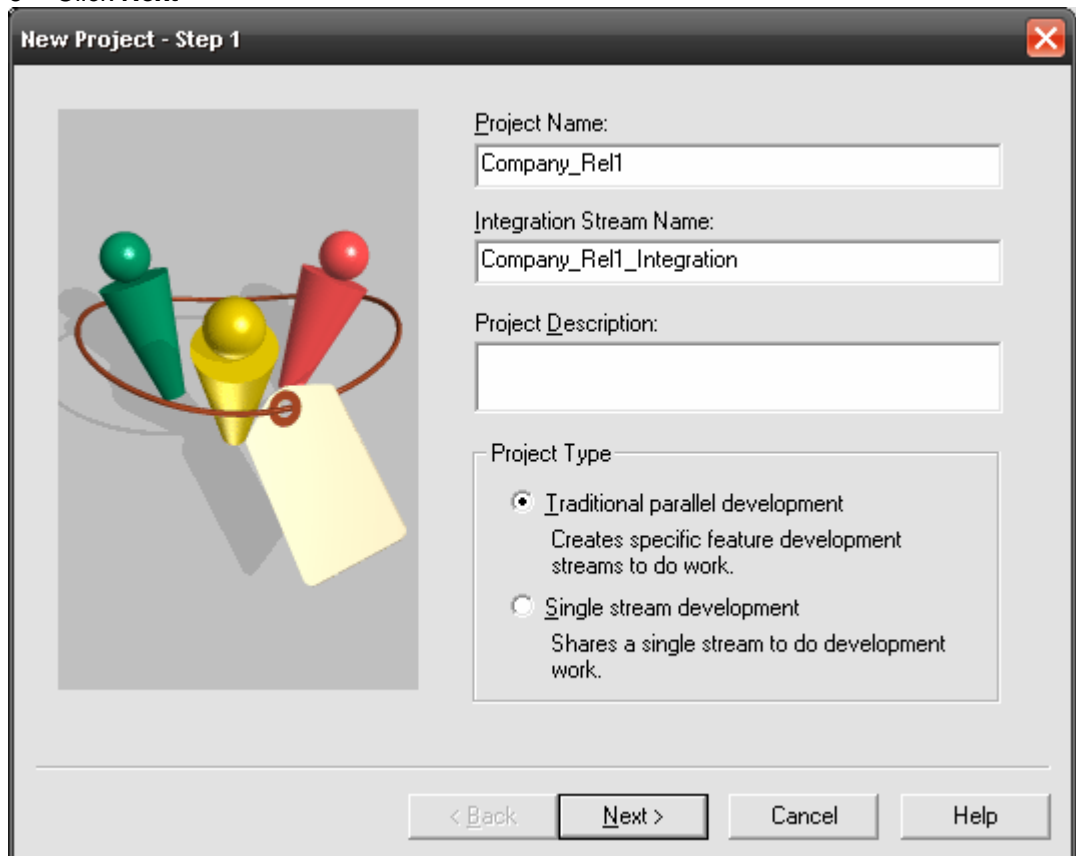
Once a project is created an Integration Stream must be created to begin development. Projects always include a single integration stream, which is the project main shared work area. In a multiple-stream project, many integration views can be attached to the project integration stream.

Creating a UCM Project from Windows GUI

1. Open the Project Explorer
   - Confirm that can see the Root Folder of the desired PVOB.
   - Right click on the Root Folder and click New > Project.
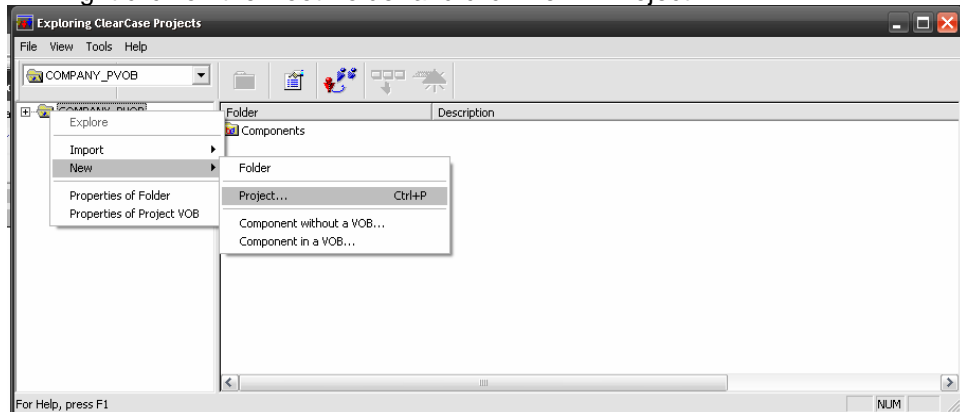
2. From the New Project wizard, enter the **Project Name**, **Integration Stream Name**, and optional **Project Description**
3. Select **Project Type**
   - o In this case, select **Traditional**
   - o Click **Next**

4. In Step 2, the wizard prompts you with the following question: **Would like to seed this project with the recommended baselines from a stream in an existing project**? This function will be useful when creating a new release of the same project type.
   o In this case, when creating your first project select the default, **No**.
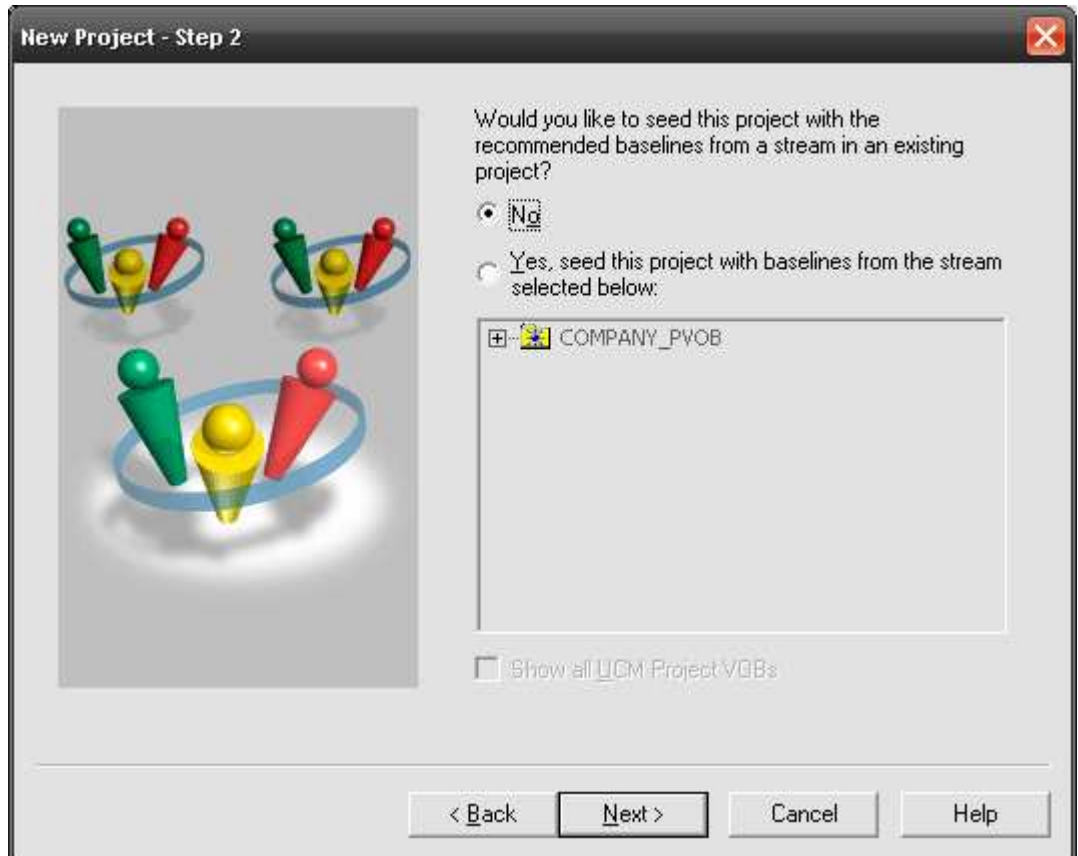
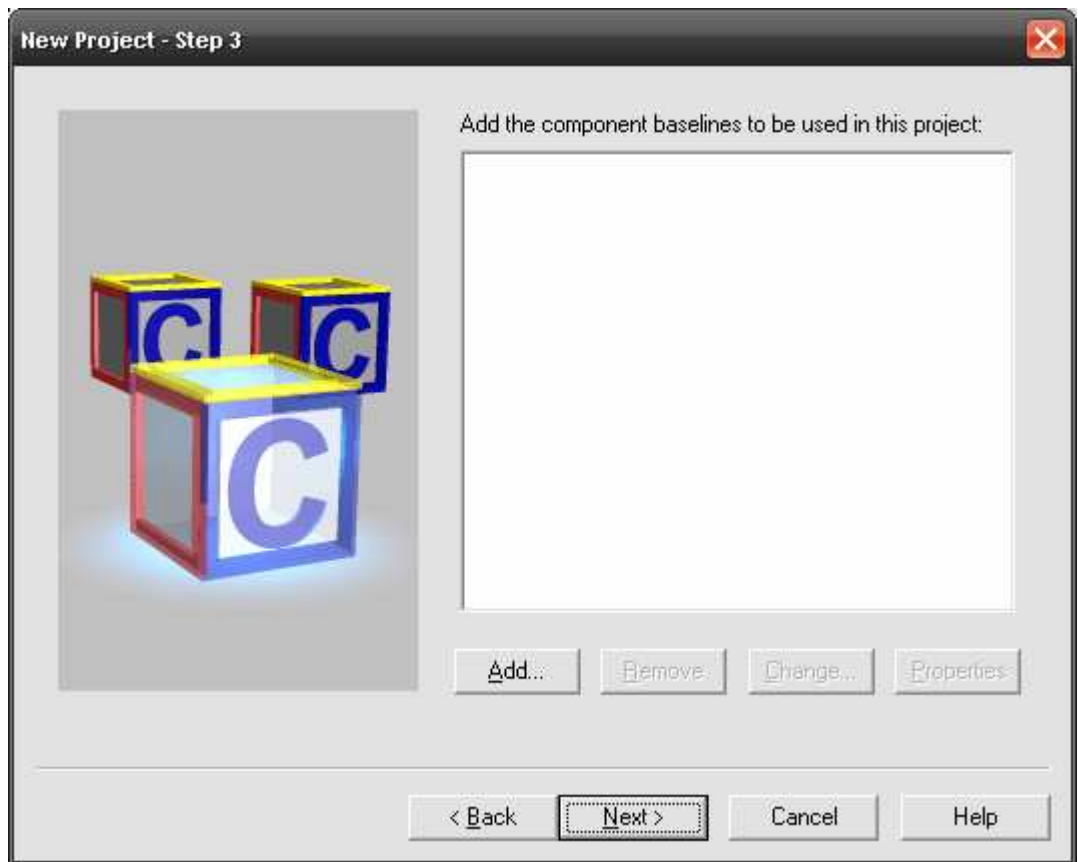5. Next, you need to decide which components will be used in your new project. This is the point which the projects configuration is created. The configuration will be available when viewing the Projects Integration stream after creation.
   - Select **Add** to choose any available component baselines to configure the project with.

6. The following window appears. As you can see below, since we have not yet created any components, there are none available to the project.
    o   Click **OK** to close this window
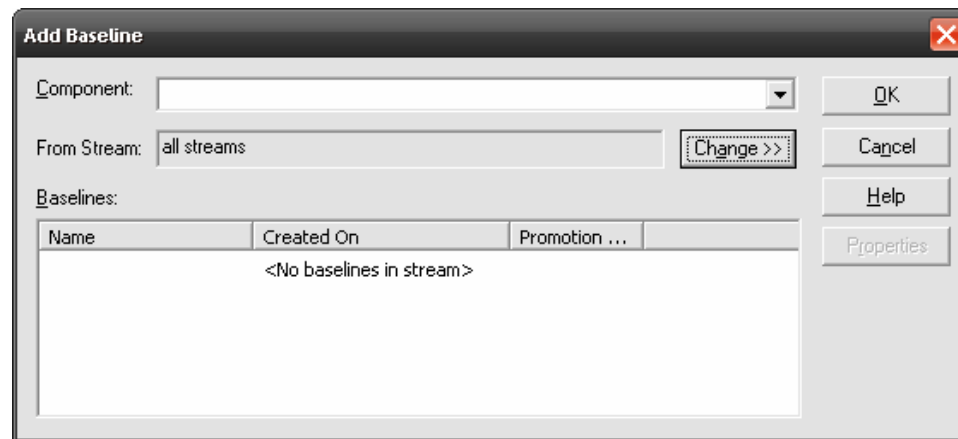
7. Step 4 of the **New Project** wizard is where you decide which components will be made modifiable in the project. Once the component is made modifiable it is irreversible. **Note:** You can make a component modifiable after the project creation. If you have multiple Projects you can select a stream from an alternate project to be the default deliver target for this project.
   o Since we don't have any components yet, click **Next**
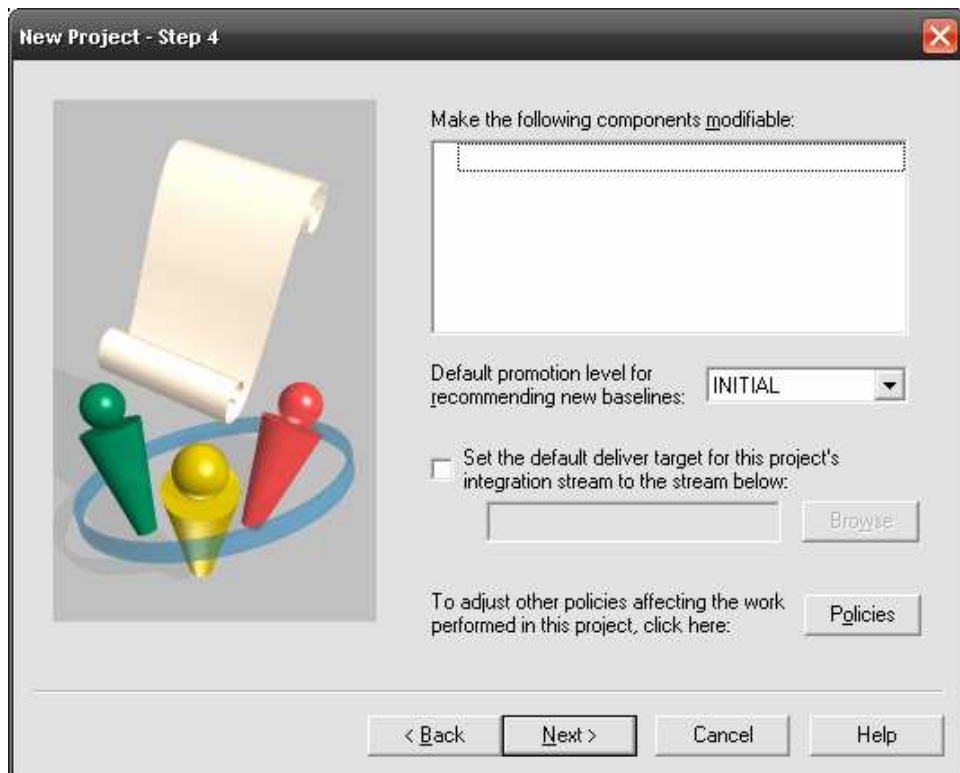
8. In the last step of the New Project wizard, you have the option of ClearQuest-enabling the project. This is not a mandatory step; however, you can also ClearQuest-enable a UCM project after creation.
   - Click **Finish** to review the decisions made during the project creation wizard

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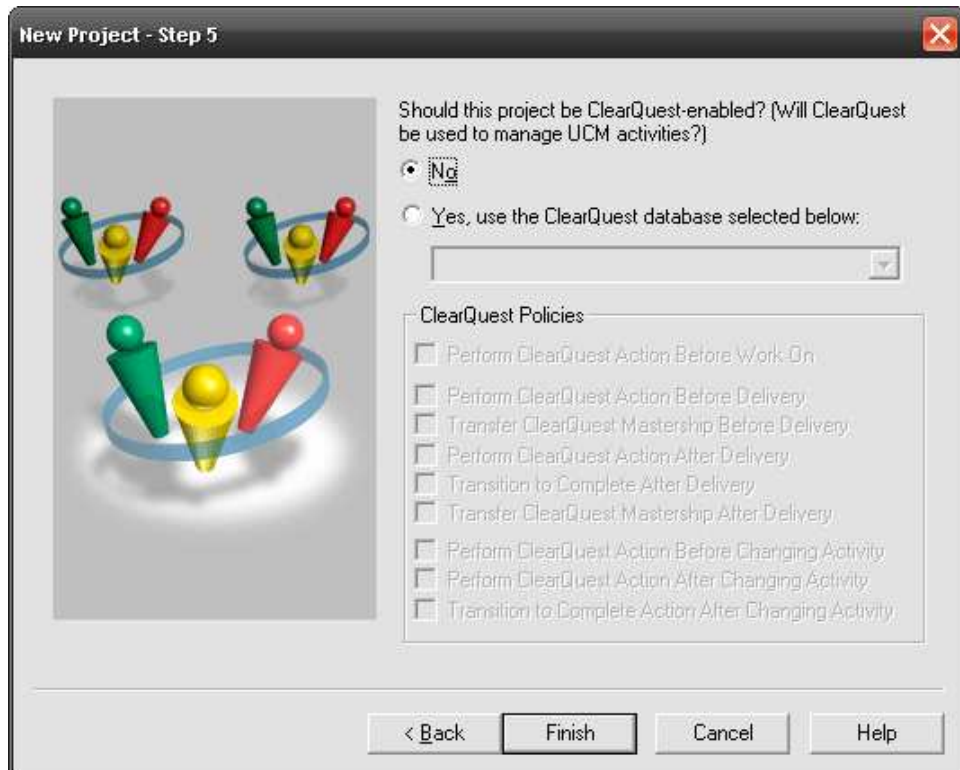
Creating a UCM Project from the Command Line Interface

You can also create a UCM project from the command line interface. The following are a few commands you should familiarize yourself with.

1. Determine which pvob the Project will exist in
2. Use the cleartool mkproj –nc –in RootFolder project:COMPANY_REL1@\PVOB_TAG command

Example: C:\ customers>cleartool mkproj -nc -in RootFolder project:COMPANY_REL1@\COMPANY_PVOB

Result: Created project "COMPANY_REL1".

```
C:\customers>cleartool describe –l project:COMPANY_REL1@\COMPANY_PVOB project
"COMPANY_REL1"
created 22-Jan-07.18:59:51 by William Frontiero (wfrontiero.clearcase@willpc)
owner: ASYLUM\wfrontiero
group: ASYLUM\clearcase
folder: RootFolder@\COMPANY_PVOB
integration stream:
modifiable components:
default rebase promotion level: INITIAL
recommended baselines:
model: DEFAULT policies:
POLICY_UNIX_INT_SNAP disabled
POLICY_UNIX_DEV_SNAP disabled
POLICY_WIN_INT_SNAP disabled
POLICY_WIN_DEV_SNAP enabled
POLICY_DELIVER_REQUIRE_REBASE disabled
POLICY_DELIVER_NCO_DEVSTR disabled
POLICY_INTRAPROJECT_DELIVER_FOUNDATION_CHANGES disabled
POLICY_INTRAPROJECT_DELIVER_ALLOW_MISSING_TGTCOMPS disabled
POLICY_INTERPROJECT_DELIVER disabled
POLICY_INTERPROJECT_DELIVER_FOUNDATION_CHANGES disabled
POLICY_INTERPROJECT_DELIVER_REQUIRE_TGTCOMP_VISIBILITY disabled
POLICY_INTERPROJECT_DELIVER_ALLOW_NONMOD_TGTCOMPS disabled
POLICY_CHPROJECT_UNRESTRICTED disabled
POLICY_CHSTREAM_UNRESTRICTED disabled
baseline naming template: basename
```

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3. You must now create an integration stream for the Project
    a. Use the command: Cleartool mkstream –integration –in project:Project_name@\pvob_tag –nc stream:Integration_stream_name@\pvob_tag

Example: C:\customers>ct mkstream -integration -in project:COMPANY_REL1@\COMPANY_PVOB –nc stream:COMPANY_INTEGRATION@\COMPANY_PVOB Created stream "COMPANY_INTEGRATION".

NOTE: The new *describe* displaying the integration stream name

```
project "COMPANY_REL1"
created 22-Jan-07.18:59:51 by William Frontiero (wfrontiero.clearcase@willpc)
owner: ASYLUM\wfrontiero
group: ASYLUM\clearcase
folder: RootFolder@\COMPANY_PVOB
integration stream: COMPANY_INTEGRATION@\COMPANY_PVOB
modifiable components:
default rebase promotion level: INITIAL
recommended baselines:
model: DEFAULT
policies:
POLICY_UNIX_INT_SNAP disabled
POLICY_UNIX_DEV_SNAP disabled
POLICY_WIN_INT_SNAP disabled
POLICY_WIN_DEV_SNAP enabled
POLICY_DELIVER_REQUIRE_REBASE disabled
POLICY_DELIVER_NCO_DEVSTR disabled
POLICY_INTRAPROJECT_DELIVER_FOUNDATION_CHANGES disabled
POLICY_INTRAPROJECT_DELIVER_ALLOW_MISSING_TGTCOMPS disabled
POLICY_INTERPROJECT_DELIVER disabled
POLICY_INTERPROJECT_DELIVER_FOUNDATION_CHANGES disabled
POLICY_INTERPROJECT_DELIVER_REQUIRE_TGTCOMP_VISIBILITY disabled
POLICY_INTERPROJECT_DELIVER_ALLOW_NONMOD_TGTCOMPS disabled
            POLICY_CHPROJECT_UNRESTRICTED disabled
            POLICY_CHSTREAM_UNRESTRICTED disabled
        baseline naming template: basename
```

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