

Alternate Workflow: Setting Up a ClearCase UCM Environment

Rational Software White Paper

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This document replaces the following section of the Rational XDE Guide to Team Development, Version 2003.06.00:

- Setting Up the ClearCase Environment

This section is located on pages 147 and 199 of the guide. This document replaces the following ranges of steps:

- Step 1 (page 148) to Step 4 (page 155)
- Step 1 (page 200) to Step 4 (page 208)

This document describes an alternate method of setting up a ClearCase UCM environment. By creating a new UCM project instead of using the project created by the ClearCase Getting Started Wizard, you can eliminate a number of steps.

Setting Up the ClearCase Environment

To set up the ClearCase environment in this exercise, the administrative user (*ucm_admin*) follows these high-level steps. You typically perform this setup once.

- 1 Create an initial project VOB and UCM project.
- 2 Create UCM component VOBs.
- 3 Create a new UCM project.
- 4 Create ClearCase work areas by:
 - a Creating a development stream.
 - b Creating an integration stream.
 - c Creating a development view.
 - d Creating an integration view.
 - e Loading the new VOBs into your work area.

Creating the Initial Project VOB and UCM Project

ClearCase stores file elements, directory elements, derived objects, and metadata in a repository called a versioned object base (VOB). Each UCM project must have a project VOB (PVOB). A PVOB is a special kind of VOB that stores UCM objects, such as projects, activities, and change sets. A PVOB must exist before you can create a UCM project.

As the administrative user, create a PVOB called *projects* and a UCM project called *InitialProject_1* by completing the ClearCase Getting Started Wizard.

To create a PVOB and UCM project:

- 1 Log on as *ucm_admin* on the ClearCase LT server.
- 2 Click **Start > Programs > Rational Software > Rational ClearCase > Administration > Getting Started Wizard**.

The Rational ClearCase LT Getting Started Wizard page appears.

- 3 Click **Next**.
- 4 On the next page, accept the default directory for storing the ClearCase LT database and click **Next**.
- 5 On the next page, accept the default **Source VOB Name** and **Name of Initial Component** and click **Next**.
- 6 On the next page:
 - a In the **Starting UCM Project Name** box, enter **InitialProject_1**.
 - b Select **Parallel stream project** and click **Next**.
- 7 On the next page, click **Next** to configure the server with the listed settings.
- 8 On the next page, click **Close**.

Note: The **Import Source Files** option is not appropriate for IDE projects because the IDEs contain the logic that determines what file types should be placed under source control. You do not use this initial repository *sources*, which you delete later in the exercise.

Creating VOBs

ClearCase stores file elements, directory elements, derived objects, and metadata in a repository called a VOB. In ClearCase, a UCM component can be stored as the only component in a VOB or as one of several components in a VOB. In this exercise we set up the VOBs so that they can each contain one component only.

Create three VOBs, one for each major IDE project:

- 1 Start the VOB Creation Wizard: click **Start > Programs > Rational Software > Rational ClearCase > Administration > Create VOB**.

The Name and Major Parameters page appears.

- 2 In the **What would you like the new VOB to be named?** box, type **atlas_gui**.
- 3 Click **Next**.

The Components page appears.

- 4 Click **Create a VOB as a single VOB-level component**.
- 5 Click **Finish**.

The Confirmation dialog box appears.

- 6 Click **OK**.
- 7 Repeat Step 1 to Step 6 twice to create the following VOBs:
 - **atlas_services**
 - **atlas_data_layer**

Creating a New UCM Project

Create a new UCM project called *InitialProject*. After you complete this procedure, your new UCM project will contain foundation baselines and the UCM components associated with your project will be modifiable.

To create a UCM project:

- 1 While logged in as *ucm_admin*, in the ClearCase Project Explorer, right-click **projects** and click **New > Project**.
- 2 On the Step 1 page:
 - a In the **Project Name** box, enter **InitialProject**.
 - b Select **Traditional parallel development**.
- 3 On the Step 2 page, select **No**.
- 4 On the Step 3 page:
 - a Click **Add**.
 - b On the Add Baseline dialog box, click **Change** and select **All Streams**.
 - c From the **Component** list, select **atlas_data_layer**.
 - d In the bottom pane, select **atlas_data_layer_INITIAL**.
 - e Click **OK**.
 - f Repeat Step 4 twice to add the **atlas_gui** and **atlas_services** foundation baselines.
- 5 On the Step 4 page, in the top pane, select all three components.
- 6 On the Step 5 page, select **No** and click **Finish**.
- 7 Click **OK**.

Creating ClearCase Work Areas

To create a ClearCase work area:

- 1 While logged in as *ucm_admin*, in the ClearCase Project Explorer, right-click **InitialProject** and then click **Join Project**.
- 2 On the Choose a Project page, ensure that *InitialProject* is selected.
- 3 On the Create a Development Stream page, accept the default stream names.
- 4 On the Choose Location for a Snapshot View page, in the **Where would you like the root of this view?** box, specify the development view location (for example: `C:\temp\views\ucm_admin_InitialProject`).
- 5 On the Choose Location for a Snapshot View page, in the **Where would you like the root of this view?** box, specify the integration view location (for example: `C:\temp\views\ucm_admin_InitialProject_int`) and click **Next**.
- 6 On the Choose Components pages, ensure that all three components are selected and click **Finish**.
- 7 On the Confirm dialog box, click **OK**.



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