

# Getting Acquainted with AccuRev



(AccuRev 3.8)

This guide gets you acquainted, quickly and easily, with AccuRev — the new generation configuration management software with integrated issue management (“Dispatch”) — from AccuRev, Inc. Please note that a “Full” product installation of AccuRev should be completed prior to using this guide.

You will first learn how to populate a “depot” — a repository of files under AccuRev version control. You will then go through typical Developer and Release Engineer experiences using AccuRev configuration management, followed by setup of Dispatch, AccuRev’s integrated issue management system.

This guide does not attempt to provide exhaustive explanations of product features. For full details, see the AccuRev documentation set, which you can download from <http://www.accurev.com>. The manuals are in PDF format, and can be viewed using Acrobat Reader.

The support team at AccuRev, Inc. is available to help you at any time as you get acquainted with our software. So please don’t hesitate to contact us with any questions and/or comments via email at [support@accurev.com](mailto:support@accurev.com).


Throughout this guide, the symbol “ **Help**  **Quick Setup**” indicates that you should select the **Help** command from the main menu and then select **Quick Setup**.



## A. Initial Setup



In this section, we'll use AccuRev's "Quick Setup Wizard" for initial data setup. If you prefer the do-it-yourself approach, using individual AccuRev commands, please follow the procedure in Appendix A.

### Operation A1: Starting the AccuRev Graphical User Interface

- Step 1:** Double-click the AccuRev icon  on your desktop,  
or  
In a command shell (or "DOS") window: **acgui**

### Operation A2: Using the Quick Setup Wizard

- Step 1:** Find a directory of files that you'd like to place under version control. (It's OK if it has subdirectories.) This data won't be modified — the Wizard will make a copy of it. Note the pathname of this directory for use in the next step.

- Step 2:** Enter command:  **Help**  **Quick Setup**

AccuRev's Quick Setup Wizard walks you through the following steps:

**Step 2a:** Creating an AccuRev username

**Step 2b:** Creating a new storage repository (depot)

**Step 2c:** Creating a workspace for yourself, and copying data files to the workspace. Make these choices:

- Select **Yes** when asked "Do you have files that you would like to import into AccuRev?"
- Select **Yes** when asked "Do you want to create a workspace in a new location ...?"
- Indicate the directory you selected in Step 1 when prompted "Where are the files stored ..."
- Accept AccuRev's suggestion for the location of the new workspace

**Step 2d:** Adding the files in your workspace to the depot:

- Click **Promote** in the Promote window

After completing the initial setup, you can proceed to use any of the remaining three sections of this guide:

**Section B:** Perform the AccuRev operations that a Developer uses most frequently

**Section C:** Perform the AccuRev operations that a Release Engineer or Quality Engineer uses most frequently

**Section D:** Work with Dispatch issue management

## B. Developer Experience

The Developer experience includes accessing workspaces, creating new versions of files (edit/keep/promote), updating workspaces, and merging two versions of a file.

### Operation B1: Going to your workspace

*Comment:* Perform this step if your workspace is not already open in the AccuRev GUI

**Step 1:**  **File**  **Open**  **Workspace**

**Step 2:** Select the workspace that you created in Operation A1 above

*Note:* All of the files in your workspace have a status of “backed”. This means that you have not yet modified these files.

### Operation B2: Editing one of your source files

**Step 1:** Select a file to edit

**Step 2:**  **Right-Click**  **Edit**

**Step 3:** Make some changes to your source file

**Step 4:** Save the file, and close the editor

*Note:* You did not have to “check out” the file before editing it. The status of the file is now “modified”.

### Operation B3: Keeping your modified file

*Comment:* The “Keep” operation is a “private checkin”. It makes a copy of your modified file in secure storage maintained by the AccuRev Server process. It also records the creation of a new “version” of the file in the Server’s database. Keeping new versions in the workspace enables you to checkpoint and backup your own code, while preventing your changes from being seen by other developers.

**Step 1:** Select the file you modified

**Step 2:**  **Right-Click**  **Keep**

**Step 3:** Enter a comment, and click **Ok**

*Note:* The status of the file is now “kept”

### Operation B4: Promoting your kept file to share your changes with the rest of the group

*Comment:* The “Promote” operation allows you to share your changed file with other users.

**Step 1:** Select the file you just modified and kept

**Step 2:**  **Right-Click**  **Promote**

**Step 3:** Enter a comment, and click **Ok**.

*Note: Promote makes the version that you created with “Keep” available to be copied into other users’ workspaces. The status of the file is once again “backed”.*

**Operation B5: Creating a second workspace**

**Step 1:**  **File**  **New**  **Workspace**

**Step 2:** From the List of Depots, select your depot

**Step 3:** As the Basis Stream, select the stream with the same name as the depot

**Step 4:** Click **Next**

**Step 5:** As the Name of Workspace to Create, enter a new name (Example: **acme2**)

**Step 6:** Click **Next**

**Step 7:** Click **Next** again (to accept various defaults)

**Step 8:** As the Physical Location for the new workspace, choose an existing directory (Example: **C:\Documents and Settings\Derek** or **/usr/home/derek**)

**Step 9:** Click **Next**

**Step 10:** Select the second pathname, to create a new directory with the name you chose for the workspace

**Step 11:** Click **Finish**

**Operation B6: Working on additional files in the second workspace**

*Comment: The Searches View can list all the files that you are currently working on.*

**Step 1:** Select a text file to edit in your second workspace

**Step 2:**  **Right-Click**  **Edit**

**Step 3:** Make some changes to your text file

**Step 4:** Save the file, and close the editor

**Step 5:** Repeat steps 1-4 on one or more additional files

**Step 6:** Click the **Searches View**  toolbar button

**Step 7:** Select the **Pending** search

**Step 8:** Select the file(s) you modified

**Step 9:**  **Right-Click**  **Keep**


**Step 10:** Select the same file(s)

**Step 11:**  **Right-Click**  **Promote**

**Step 12:** Click the **Directory View**  toolbar button (just to prepare for further work)

**Operation B7: Switching back to your first workspace**

- Step 1:** Click the tab in the GUI window that contains your first workspace  
*Comment:* If you have closed that tab, re-open the workspace using:  
 ↵ File ↵ Open ↵ Workspace.

- Step 2:** Click the **Update**  toolbar button  
*Note:* This brings the changes you promoted while working in your second workspace into your first workspace.

**Operation B8: Merging two versions of a file**

- Step 1:** In your first workspace select a file to edit  
**Step 2:** ↵ Right-Click ↵ Edit  
**Step 3:** Make some changes to your text file, save the file, and close the editor  
**Step 4:** Select the file  
**Step 5:** ↵ Right-Click ↵ Keep  
**Step 6:** Select the file  
**Step 7:** ↵ Right-Click ↵ Promote  
**Step 8:** Switch to your second workspace. Don't perform an Update  
**Step 9:** Edit the SAME file  
*Note:* The file's status is now "overlap". (The yellow highlight emphasizes this.) This means that someone else has promoted a version before you did. The "someone else" is you, working in your first workspace. The file in your second workspace requires a merge before you can promote it.
- Step 10:** Select the file  
**Step 11:** ↵ Right-Click ↵ Merge  
**Step 11a:** Proceed to merge the file, using the graphical Merge tool. The only toolbar buttons you need are ↓ and ↑ (to navigate from conflict to conflict), along with ← and → (to resolve the current conflict, by selecting text from one of the versions). You finish the Merge by preserving the merged file with a Keep.  
*Note:* For more guidance, see chapter "The AccuRev Diff and Merge Tools" in the AccuRev User's Guide (GUI).
- Step 12:** Select the file  
**Step 13:** ↵ Right-Click ↵ Promote

## C. Release Engineer / Quality Engineer Experience:

The AccuRev experience for a Release Engineer or Quality Engineer includes working with the StreamBrowser™, creating new streams and snapshots, comparing streams, and rearranging the stream hierarchy.

### Operation C1: Launching the StreamBrowser

*Comment: This allows you to easily see and control your development stream hierarchy graphically using AccuRev's "Total Graphical Control" capability.*

**Step 1:**  **View**  **Streams**

**Step 2:** In the choice box at the bottom of the window, make sure that **All Workspaces** is selected. This includes your "private" workspace streams in the display.

*Note: At this point there is only one "public" development stream. It has the same name as your depot and is known as the depot's "base stream" or "root stream".*

### Operation C2: Creating a snapshot stream to capture the current state of development

**Step 1:** Select the depot's base stream

**Step 2:**  **Right-Click**  **New Snapshot**

**Step 3:** Give the new snapshot a name (Example: **acme\_1.0**)

**Step 4:** Leave the Date & Time set to **Now**

**Step 5:** Click **Ok**

*Note: The newly created snapshot stream appears in the StreamBrowser.*

### Operation C3: Creating an integration stream based on the base stream

*Comment: Now, rather than having to promote directly into the base stream you can promote to an integration stream that is based on the base stream.*

**Step 1:** Select the base stream

**Step 2:**  **Right-Click**  **New Stream**

**Step 3:** Give the new stream a name (Example: **acme\_int**)

**Step 4:** Leave the Stream Type set to **Regular stream**.

**Step 5:** Leave the Date & Time set to **None**

**Step 6:** Click **Ok**

*Note: The newly created integration stream appears in the StreamBrowser, as a direct "child" of the base stream.*

**Operation C4: Reparenting your workspaces**

*Comment: Using AccuRev's Total Graphical Control capability you can easily "reparent" your workspaces, so that they are based on the integration stream, rather than the base stream. (Example: reparent them from **acme** to **acme\_int**)*

**Step 1:** Drag and drop one of your workspace streams onto the integration stream

**Step 2:** Drag and drop the other workspace stream onto the integration stream

*Note: The StreamBrowser shows that your workspace streams are now based on the integration stream.*

**Operation C5: Updating your workspace**

*Comment: Execute the following steps for each workspace that you have just reparented.*

**Step 1:** Double-click the workspace to open it

**Step 2:** Click the **Update**  toolbar button




*Note: An Update is always required after reparenting a workspace.*

**Step 3:** Select a file in your workspace that is now based on the integration stream

**Step 4:**  **Right-Click**  **Edit**

**Step 5:**  **Right-Click**  **Keep**


**Step 6:**  **Right-Click**  **Promote**

*Note: This promotes the new version of the file to the integration stream. The development process remains the same no matter which stream the workspace is based on:  **Edit**;  **Keep**;  **Promote**.*

**Step 7:** (optional) Edit/Keep/Promote additional files

**Operation C6: Promoting your changes from the integration stream to the base stream**

**Step 1:** Switch back to the StreamBrowser tab (Example:  **acme**)

**Step 2:** Click the arrow just below  the integration stream (Example: **acme\_int**)

*Note: This opens a window showing the file(s) you just promoted to the integration stream.*

**Step 3:** Select all of the files

**Step 4:**  **Right-Click**  **Promote**

*Note: The files have now been promoted from the integration stream to the base stream.*

**Operation C7: Creating a second snapshot of the base stream**

**Step 1:** Select the base stream

**Step 2:** ↵ **Right-Click** ↵ **New Snapshot**

**Step 3:** Give the second snapshot stream a name (Example: **acme\_2.0**)

**Step 4:** Leave the Date & Time set to **Now**

**Step 5:** Click **Ok**

*Note: The newly created snapshot stream appears in the StreamBrowser.*

**Operation C8: Comparing the contents of the two snapshot streams**

**Step 1:** Select the first snapshot stream (Example: **acme\_1.0**)

**Step 2:** ↵ **Right-Click** ↵ **Show Difference** ↵ **By Files**

*Note: A “show difference” icon is added to the mouse pointer.*

**Step 3:** Click on the second snapshot stream (Example: **acme\_2.0**)

*Note: A list appears, containing the files you promoted from the first snapshot stream.*

**Operation C9: Observing the differences between snapshots at the individual-file level**



**Step 1:** Select a file from the differences list you just generated

**Step 2:** ↵ **Right Click** ↵ **Show Difference**




## D. Dispatch Example Usage

The Dispatch experience includes setting up an issues database format (“schema”), creating issue records, querying the issues database, and using the “change package” integration between configuration management and issue management.




### Operation D1: Setting up the default schema

- Step 1:  **Issues**  **Schema Editor**
- Step 2: Click **Yes** (“Do you want to use the default schema?”)
- Step 3: Click **Ok** (“Please note ...”)
- Step 4: Click **Save** (lower right-corner of Schema Editor tab)




### Operation D2: Creating a few new issues







- Step 1:  **Issues**  **New Issue**
- Step 2: Enter data in all of the required fields (red labels)
- Step 3: Experiment with how the different types of fields manage various types of data
- Step 4: Click **Save & Close**  to save the issue record and close the tab
- Step 5: Repeat this process a few times so you have a few issues to work with

### Operation D3: Creating a query and making it your default query






- Step 1: Enter command:  **Issues**  **Queries**
- Step 2: Click **New Query**  to create an empty new query
- Step 3: Give your query a name by clicking its name "New Query 1" twice (with a short pause in between) and then typing the name (e.g. **All Defects**)
- Step 4: Click **Click here to add...**
- Step 5: Set the first choice box value to **issueNum**
- Step 6: Set the second choice box value to **greater than or equal to**
- Step 7: Enter the number **1** in the third query box
- Step 8: Click **Ok**



*Note: The name of the new query appears in the left (Query List) pane, which lists all the queries that you’ve created. The right (Query Results) pane shows the results of running the query against the issues database.*

- Step 9: In the Query List pane, with the query you just created ...  
 **Right-Click**  **Set as Default**
- Step 10: Click the **Columns**  toolbar button in the Query Results pane




- Step 11:** Select additional fields to appear in the Query Results pane:  
**Step 11a:** Select a field from the **Available** list (Ex: **shortDescription**)  
**Step 11b:** Click the right-arrow button  to move the field to the **Selected** list  
**Step 11c:** Repeat the steps above for all of the fields you wish to add to the query results output  
**Step 11d:** Click **Ok**
- Step 12:** Click **Save all queries**  above the left pane to save your query
- Step 13:** Close the query tab by clicking the tab control itself ...  
 **Right Click**  **Close**
- Step 14:** Reopen a query tab:  **Issues**  **Queries**
- Note: The query you just created runs automatically, because you set it as your default query.*

**Operation D4: Enabling the built-in integration between AccuRev configuration management and Dispatch issue management**

- Step 1:**  **Issues**  **Schema Editor** (or return to the existing Schema Editor tab)
- Step 2:** Go to the **Change Packages** tab
- Step 3:** In the Change Package Results section (top part), click  **Setup Columns**
- Step 4:** Select some fields from the **Available** list (Ex: **issueNum**, **shortDescription**), and click the right-arrow button  to move the fields to the **Selected** list
- Step 5:** Click **Ok**
- Step 6:** In the Change Package Triggers section (bottom part), click **New trigger**  in the toolbar
- Note: A new window opens, in which you specify a condition, along with a query to be performed if that condition is satisfied when the integration is invoked.*
- Step 7:** In the Condition section (top part), click **Click here to add...**
- Step 8:** Use the three choice boxes to form this condition:  
**PROMOTE\_DEST\_STREAM is in hierarchy <depot>**
- Note: <depot> is the name of your depot.*
- Step 9:** In the Query section (top part), click **Click here to add...**
- Step 10:** Use the choice boxes and the text field to form this condition:  
**issueNum greater than 0**
- Note: This query selects all issue records.*
- Step 11:** Click **Ok**

- Step 12:** Click **Save** (lower right-corner of Schema Editor tab)
- Step 13:** Open a workspace in the GUI (or go to one that is already open)
- Step 14:** Edit and Keep several files
- Step 15:** Promote all those files
- Note: The integration evaluates the condition you defined in Step 8 (it's TRUE), then runs the query you defined in Step 10. The selected records are presented as a list of issues to choose from.*
- Step 16:** Select the issue that you want to associate the promoted files with, and click **Ok**
- Step 17:**  **Issues**  **Look Up**
- Step 18:** Enter the number of the issue you chose when promoted by the integration (Step 16) , and click **Ok**
- Note: The issue appears in an edit form.*
- Step 19:** Go to the **Changes** tab
- Note: The files that you promoted are listed on this tab. The specific versions that you promoted are noted in the **Version** column.*

**Operation D5: Turning off the integration between configuration management and issue management**

- Step 1:**  **Issues**  **Schema Editor** (or return to the existing Schema Editor tab)
- Step 2:** In the **Change Packages** tab, click the condition/query pair to select it
- Step 3:** Click **Delete trigger** 
- Step 4:** Click **Save** (lower right-corner of Schema Editor tab)
- Note: With no query to be invoked at Promote time, the integration is effectively disabled.*

## Appendix A

### E. Initial Setup Without Using the Quick Setup Wizard

#### Operation E1: Create an AccuRev username and password

Step 1:   ↳ Tools ↳ Security

Step 2:   ↳ Add User

Step 3:   Enter a username and password

*Note: Creating a password is optional. We recommend that you do not create a password during your Getting Acquainted tour.*

Step 4:   Click **Ok**

Step 5:   ↳ Tools ↳ Change Active User

Step 6:   Select your newly created user

Step 7:   Click **Ok**

Step 8:   If you created a password for the user:

**Step 8a:** Click **Set Password** and type in the password

**Step 8b:** Check the **Update local password only** checkbox

**Step 8c:** Click **Ok**

#### Operation E2: Create a new storage depot (a repository of files under AccuRev control)

Step 1:   ↳ File ↳ New ↳ Depot

Step 2:   Give the depot a name (Example: **acme**)

Step 3:   Click **Ok** (and continue to the next operation)

#### Operation E3: Create a workspace to store your work

Step 1:   Click **Yes** (“Do you want to create a workspace for the depot?”)

Step 2:   Click **Next** to select your newly created depot, and the stream that has the same name as the depot

Step 3:   Click **Next** to accept the default name for the workspace

Step 4:   Click **Next** to accept defaults for the new workspace

Step 5:   Choose a physical location for the workspace (Example: **C:\ws\acme**)

Step 6:   Click **Next**




Step 7:   Select the pathname you prefer from the two pathnames offered

Step 8:   Click **Finish**

**Operation E4: Import files into your workspace**

**Step 1:** Use operating system commands to copy some sample files into workspace.  
(Example: `xcopy /E /Y c:\myfiles\src\* c:\ws\acme`)

**Operation E5: Add the files in your workspace to the depot**

*Comment:* If your newly created workspace is not already open in the AccuRev GUI, open it:  File  Open  Workspace

**Step 1:** Click the **Searches View**  toolbar button

**Step 2:** Select the **External** filter

*Note:* This may take a few minutes to populate if you copied a lot of files into your workspace.

**Step 3:** Select one of the files in the right-hand pane (“details pane”)

**Step 4:**  **Edit**  **Select All**

**Step 5:**  **Right-Click**  **Add to Depot**

**Step 6:** (optional) Enter a comment string

**Step 7:** Click **Ok**

**Step 8:** Select the **Pending** filter

**Step 9:** As above, select all the files listed in the details pane

**Step 10:**  **Right-Click**  **Promote**

**Step 11:** (optional) Enter a comment string

**Step 12:** Click **Ok**

**Step 13:** Click the **Directory View**  toolbar button

**Step 14:** Click the Update  button to update your workspace

*Note:* This may take a minute or so the first time you update after importing a large number of files but will greatly improve filter performance.