# AccuRev

# AccuRev Installation and Release Notes

**Version 4.8.0a**

**September 2010**

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# Table of Contents

# Introduction

Welcome to AccuRev, the best software change and configuration management (SCCM) system available today.

## Highlights of this Release

AccuRev Version 4.8.0a provides a bug fix that applies to customers that use cross-links, and another bug fix that applies to customers that use replication servers.

AccuRev Version 4.8 provides several enhancements and bug fixes including:

- Many bugs fixes and enhancement to improve the reliability of **Update**.

- Many additional bug fixes and enhancements to other areas of functionality, including Change Packages, performance with cross-links, **promote** by transaction, **Send to Change Palette** with cross-links, **show -s**, and simplified licensing for replica servers.

- Enhancements to GUI functionality, including detailed Change Package History, clearer presentation of Issue Dependencies, and the ability to view and work with unaffiliated changes ("dark matter").

- Several customer-reported documentation issues and enhancement requests.

For details about the specific changes introduced in this release, please see *AccuRev 4.8 Release Notes* on page 13.

To install AccuRev, please see *AccuRev Installation Notes* on page 2.

# AccuRev Installation Notes

## Overview

Installation of AccuRev Configuration Management software involves downloading an installation program from the AccuRev Web site and running it on the target machine.

One machine at your site should be the AccuRev Server machine — the one that runs the AccuRev Server process and hosts the AccuRev data repository. Other machines can access the AccuRev Server after installing the AccuRev Client software.

The software must be installed on each machine separately. There is no batch install capability, but you can perform a non-interactive installation, which is driven by a simple configuration file. See *Unix/Linux: Unattended Installation* for those instructions.

These notes present an overview of the installation process. The Wizard should be self-explanatory, but a detailed, step-by-step description of the installation process can be found in the "Quick Evaluation" chapters in *AccuRev Technical Notes*.

## Compatibility with Previous Versions of AccuRev

AccuRev Version 4.8 is not compatible with any prior AccuRev releases. If you are upgrading from a pre-4.8 release of AccuRev, you must upgrade the machine that runs the AccuRev Server software, along with all the machines that run AccuRev Client software.

No explicit conversion is required to bring the AccuRev data repository from any prior level to the Version 4.8 level. When you install Version 4.8 on the machine that runs the AccuRev Server software (this machine also hosts the data repository), the repository will be upgraded automatically, if necessary.

## Downloading the AccuRev Installation Package

On the Downloads page of the AccuRev, Inc. Web site (**http://www.accurev.com/download.htm**), download the appropriate AccuRev installation package for your operating system. Make a note of the directory you saved the file to (referred to as `installer-loc` throughout this document).

| Generic Name | Actual Name |
|---|---|
| `installer-loc` | |

- If the file you downloaded is the Wizard itself (Windows:**.exe** file, Unix/Linux: **.bin** file), then you are ready to run the Wizard.

- If you downloaded a compressed package (**.zip** or **.gz** file), first extract the Wizard from the package. Many extraction tools are freely available. There are handy links to such tools on the Downloads page; and the **unzip** and **gunzip** programs are standard on many Unix/Linux systems.

For instructions on installing AccuRev, proceed to the appropriate section below:

Note: If you're installing AccuRev on a Unix or Linux machine, read section *Workaround for Unix/Linux Java Runtime Library Problems* below before proceeding to the section for your particular installation.

- *Installing or Upgrading an AccuRev Client*

- *Windows: Installing an AccuRev Server*

- *Unix/Linux: Installing an AccuRev Server*

- *Upgrading an AccuRev Server*

- *Unix/Linux: Unattended Installation*

# Workaround for Unix/Linux Java Runtime Library Problems

The AccuRev Installation Wizard and the AccuRev GUI fail on some Unix/Linux platforms because of Java library problems. Use this procedure to work around these problems:

1. Run the Installation Wizard with environment variable LIBXCB_ALLOW_SLOPPY_LOCK set to the value 1.

2. Fix the runtime library file in the new AccuRev installation area:

```
> cd <AccuRev-installation-dir>/jre/lib/i386/xawt
> sed -i 's/XINERAMA/FAKEEXTN/g' ./libmawt.so
```

# Installing or Upgrading an AccuRev Client

If you are upgrading, you don't need to uninstall any existing software. The AccuRev Installation Wizard lets you preserve your development data and configuration files, and installs the upgrade in the same place as your existing version.

1. Navigate to the **installer-loc** directory and locate the downloaded installer.

2. Double-click the installer's icon to launch it, or enter the installer name on the command line (substituting the appropriate digits for the *N*s):

```
AccuRev_N_N_N_Windows.exe          (Windows)
AccuRevInstall.app                 (OS X)
sh AccuRevInstall.bin              (Unix/Linux, graphical Wizard)
sh AccuRevInstall.bin -i console   (Unix/Linux, text-based Wizard)
```

3. Select **Typical** as the installation type and see the *Installation Wizard Notes* to proceed through the remainder of the Wizard.

   **Note:** Using the **Typical** option for upgrades will upgrade the current AccuRev installation to the new version using the default options. If you need to change the type of installation, or alter any installation options during the upgrade, choose the **Custom** installation type.

# Windows: Installing an AccuRev Server

1. Navigate to the `installer-loc` directory and locate the downloaded installer.

2. Double-click the installer's icon to launch it, or enter the installer name on the command line (substituting the appropriate digits for the *N*s):

   ```
   AccuRev_N_N_N_Windows.exe
   ```

3. Select **Typical** as the installation type and see the *Installation Wizard Notes* to proceed through the remainder of the Wizard.

# Unix/Linux: Installing an AccuRev Server

It is a Unix/Linux "best practice" to minimize the number of programs that run under the **root** user identity. When the procedure below has been completed, the AccuRev Server will be configured to run without **root** privileges.

1. Become the **root** user.

2. Create a new identity for the AccuRev Server to run under. For this procedure, we assume that you create this identity:

   username: **acserver**
   groupname: **acservergrp**
   home directory: **/home/acserver**

3. Create a directory in which the AccuRev client and server software will be installed, along with the AccuRev data repository. (And make sure to leave this directory empty.) For this procedure, we assume that you create this directory:

   installation directory: **/opt/accurev**

   **IMPORTANT:** You must select a directory that is local to your machine, not a networked or mounted drive. The AccuRev data repository and the AccuRev Server must be located on the same machine.

4. Change the ownership of the installation directory:

   ```
   chown acserver:acservergrp /opt/accurev
   ```

5. Switch to the new user identity, **acserver**.

6. Navigate to the **installer-loc** directory and locate the downloaded installer.

7. Double-click the installer's icon to launch it, or enter the installer name on the command line:

```
sh AccuRevInstall.bin                (graphical Wizard)
sh AccuRevInstall.bin -i console     (text-based Wizard)
```

For a non-interactive alternative to the Wizard, see *Unix/Linux: Unattended Installation* on page 7.

8. Select **Typical** as the installation type and see the *Installation Wizard Notes* to proceed through the remainder of the Wizard.

## Starting the AccuRev Server Automatically

When the Wizard completes, AccuRev is fully installed on your machine, and is ready to use. By default, the AccuRev Server process can be started and stopped manually by user **acserver**, with these commands:

```
/opt/accurev/bin/acserverctl start
/opt/accurev/bin/acserverctl stop
```

If you would like the AccuRev Server to be started automatically at system boot-time, follow these additional steps:

1. Edit the server configuration file (**/opt/accurev/bin/acserver.cnf**) as follows:

```
#USER = nobody                 change to        USER = acserver
#GROUP = nobody                                 GROUP = acservergrp
```

This will configure the boot-time script that starts the AccuRev Server (see Step 4) to set the Server's user identity, using **setuid**.

2. Stop the newly installed AccuRev Server:

```
/opt/accurev/bin/acserverctl stop
```

3. Become the **root** user.

4. Using the files in directory **/opt/accurev/extras/unix**, set up the boot-time scripts to start the AccuRev Server.

5. Reboot the machine.

## Upgrading an AccuRev Server

You don't need to uninstall any existing software. The AccuRev Installation Wizard lets you preserve your development data and configuration files, and installs the upgrade in the same place as your existing version. The data repository is automatically upgraded to the new release level.

1. Stop the AccuRev Server process.

   - Windows:

   ```
   net stop accurev
   ```

   - Unix/Linux:

   ```
   cd <AccuRev-bin-directory>
   ./acserverctl stop
   ```

2. Perform a full backup of the AccuRev data repository. For detailed instructions, see the section titled *Backing Up the Repository* (on page 3 of the *AccuRev Administrator's Guide*).

3. Navigate to the **installer-loc** directory and locate the downloaded installer.

4. Double-click the installer's icon to launch it, or enter the installer name on the command line:

   ```
   AccuRev_N_N_N_Windows.exe          (Windows)
   sh AccuRevInstall.bin              (Unix/Linux, graphical Wizard)
   sh AccuRevInstall.bin -i console   (Unix/Linux, text-based Wizard)
   ```

5. Select **Typical** as the installation type and see the *Installation Wizard Notes* to proceed through the remainder of the Wizard.

6. Verify that the new AccuRev Server process has been started, by running this command:

   ```
   accurev info
   ```

7. If you need to start the AccuRev Server process manually, use these commands:

   - Windows:

   ```
   net start accurev
   ```

   - Unix/Linux:

   ```
   cd <AccuRev-bin-directory>
   ./acserverctl start
   ```

# Installation Wizard Notes

Use these notes to determine which installer options to choose for your installation type.

- Under **Configure: Set Host and Port**:

  - If you wish to install the AccuRev Server on this machine, or create a test installation, select **this machine**. The wizard will install both the client and server software.

  - For all other install types, select **another host** and enter the hostname and IP port number of the AccuRev Server to connect to.

- If you are performing a console installation using the text-based Wizard, be careful to enter only numeric characters for the port number. If you enter non-numeric characters, the Wizard displays Java-level error data and proceeds to the next prompt. Enter **back** at that prompt, then reenter the port number correctly.

- Under **Choose Install Directory**:

  - *(Unix only)* Specify the directory you created.

  - *(all upgrades)* Specify your existing AccuRev installation directory.

  - *(all other installation types)* Specify a location where you have write permission.

- Under **Choose Link Location**, if you choose to create symbolic links to the AccuRev client programs, specify a location where you have write permission.

- *(Server upgrades only)* Select **No** when the Wizard asks, "Do you want to install a new license key file?"

# Unix/Linux: Unattended Installation

On a Unix or Linux system, you can run the AccuRev installation program **AccuRevInstall.bin** as a non-interactive "console program" instead of as a Wizard.

> **Note:** Non-interactive console installation is not available on Windows or Mac OS X.

Follow these steps:

1. Create an installation configuration file by copying the sample text below.

2. Revise the settings in the configuration file, as appropriate for the target machine.

3. Invoke the installation program as follows:

   ```
   sh AccuRevInstall.bin -i SILENT -f <full-pathname-of-config-file>
   ```

   You must use a full pathname to specify the installation configuration file.

Use the following text as a template for the configuration file:

```
###
### AccuRev InstallAnywhere SILENT installation config file
###
#
# Unix/Linux usage:  sh AccuRevInstall.bin -i SILENT -f <config-file>

# Enables use of this config file; do not change.
INST_ROOT=true

# Location of AccuRev installation directory (OK to already exist).
# Installer creates subdirectories bin, doc, jre, etc.
USER_INSTALL_DIR=/opt/accurev

# Type of installation to perform:
# Client: Installs AccuRev Client software on this machine.
# Server: Installs AccuRev Client and Server software on this machine.
# Un-comment exactly one of the following lines.
```

```
#CHOSEN_INSTALL_SET=Client
CHOSEN_INSTALL_SET=Full

# Client install: hostname of machine to run AccuRev Server process.
# Full install: this setting ignored, hostname of local machine used.
SERVER_HOSTNAME=myhost

# The traditional port for the AccuRev Server is 5050. But you can
# change it to any number. We recommend the range 5000 - 6000.
SERVER_PORT=5050

# Full install: full pathname of a valid license key file.
# installer copies this file into site_slice dir, as "keys.txt".
LICENSE_KEY_FILE=/path/to/license-key-file
```

**Note:** For USER_INSTALL_DIR, you must select a directory that is local to your machine. The AccuRev data repository cannot be located on a disk that is accessed over the network by the AccuRev Server process.

# Platform Support Notes

The following sections contain important notes on installing AccuRev software on specific hardware/software platforms:

## Java Compatibility

AccuRev Version 4.8 is fully compatible with the Java 2 Runtime Environment (JRE), Versions 1.5.x and higher. These Java versions are also labeled "J2SE Version 5" and higher.

## Mac OS X

- AccuRev 4.8 is supported on Mac OS X 10.5 (Leopard), but is NOT supported on 10.6 (Snow Leopard).

- Be sure you have JRE 1.5 or higher installed. AccuRev does not install its own JRE on OS X, because Java is included with the OS X installation.

- An administrative user can choose either **Typical** or **Custom** in the AccuRev Installation Wizard. A non-administrative user must perform a **Custom** installation.

- Only the AccuRev client software is supported on this platform.

- The following is a recommended method for getting all required executables into the PATH for Mac OS X:

Create the following three files using "sudo":

```
sudo echo "/Applications/AccuRev/bin" > /etc/paths.d/AccuRev

sudo echo "/Applications/AccuRev/bin/acdiffgui.app/Contents/MacOS" >
    /etc/paths.d/Acdiffgui
```

```
sudo echo "/Applications/AccuRev/bin/acgui.app/Contents/MacOS" >
    /etc/paths.d/Acgui
```

- To enable the AccuRev **diff** GUI tool (`acdiffgui`) to work stand-alone as well as from an IDE integration such as Eclipse, do the following:

  1. Make a backup copy of `acdiffgui`:

     ```
     cd /Applications/AccuRev/bin/acdiffgui.app/Contents/MacOS

     mv acdiffgui acdiffgui.orig
     ```

  2. Create a new `acdiffgui` file with the following content:

     ```
     #!/usr/bin/perl

     $cmd = "java -Duser.dir=/Applications/AccuRev/bin -Xms32M -Xmx512M -
     classpath \"/Applications/AccuRev/bin/oro.jar:/Applications/AccuRev/bin/
     xercesImpl.jar:/Applications/AccuRev/bin/xml-apis.jar:/Applications/
     AccuRev/bin/fw.jar:/Applications/AccuRev/bin/werken.opt.jar:/
     Applications/AccuRev/bin/diff.jar\" diff.DiffApp ";

     foreach $arg(@ARGV){

      $cmd .= "\"$arg\" ";

     }

     system ($cmd);
     ```

  3. Close any shells.

  4. Open a new shell.

Running `acdiffgui` should now bring up the AccuRev graphical **diff** tool, and it should also work from within any integrated IDE.

## SunOS /Solaris on SPARC Hardware

- The following non-standard C/C++ language shared libraries must be accessible, both by the AccuRev Installation Wizard and by the installed AccuRev executables. The pathnames below show typical locations for these shared libraries, but they can be placed in any location that is specified in environment variable LIBPATH.

```
/lib/libgcc_s.so.1
/lib/libintl.so.8
/usr/local/lib/libiconv.so.2
/platform/SUNW,A70/lib/libc_psr.so.1
/platform/SUNW,A70/lib/libmd5_psr.so.1
```

- The machine must also have Version 3.3.x of the GNU C compiler.

- Solaris requires operating system patches, as described on the Sun Java Patch Page (**http:// sunsolve.sun.com**).

## AIX

- The following non-standard C/C++ language shared libraries must be accessible, both by the AccuRev Installation Wizard and by the installed AccuRev executables. The pathnames below show typical locations for these shared libraries, but they can be placed in any location that is specified in environment variable LIBPATH.

```
libstdc++.a
/usr/lib/libcrypt.a
/usr/lib/libgcc_s.a
/usr/lib/libpthread.a
```

**Note:** The AccuRev server requires the 4.2.4 version of libstdc++.a. You may need to adjust you LD_LIBRARY PATH environment variable to point to the correct version, or create a symbolic link from this version of libstdc++.a to the /usr/lib or /usr/local/lib folder.

- The maximum file size on AIX is 2GB; therefore the Accurev Server has a file size limit of 2GB for database and index files.

- If you choose to use the bundled Java Runtime Environment (JRE), the installer mistakenly warns you that you have not chosen the bundled JRE. Complete the installation, then change this setting in **/opt/accurev/bin/acgui.lax**:

```
lax.nl.current.vm=../jre/bin/java
```

## HP-UX

- The value of the tunable system parameter **maxssiz** (maximum stack size) for the HP-UX kernel must be at least 0x2000000, rather than the default of 0x800000.

Use this command to determine the current setting:

```
grep maxssiz /stand/system
```

If you must increase the value, use the SAM utility, as described on the "Reconfiguring the Kernel" page at:

http://docs.hp.com/en/5185-6559/ch01s01.html#cihehjcc

- The following non-standard C/C++ language shared libraries must be accessible, both by the AccuRev Installation Wizard and by the installed AccuRev executables. The pathnames below show typical locations for these shared libraries, but they can be placed in any location that is specified in environment variable LIBPATH.

/opt/hp-gcc-4.0.3/lib/libgcc_s.sl
/usr/lib/libpthread.1

## Linux

- Linux systems require glibc version 2.3 or higher. To determine your glibc version, run **rpm -qi glibc** in a command shell.

## Linux on PowerPC (64-bit) Hardware

To ensure that the AccuRev Installation Wizard and the AccuRev GUI client program pick up the correct Java runtime libraries:

- Set environment variable JAVA_HOME to the full pathname of the machine's Java installation directory. This must be the Java implementation provided by IBM for the PowerPC 64-bit Linux environment.

- Start the AccuRev Installation Wizard with this command line:

sh ./AccuRevInstall.bin LAX_VM <path-to-java-interpreter>

<path-to-java-interpreter> is the full pathname of the Java interpreter under JAVA_HOME.

- Start the AccuRev GUI in a similar manner:

cd <AccuRev-bin-directory>
sh ./acgui LAX_VM <path-to-java-interpreter>

- For important information on AccuRev and 64-bit Linux configurations, please contact *support@accurev.com*.

# AccuRev 4.8.0a Release Notes

Please read these notes to familiarize yourself with the changes in AccuRev 4.8.0a.

## Issues Fixed

**22329**

A bug has been fixed which could cause replication servers to hang if used with AccuRev clients older than Release 4.8.

**22330**

A bug has been fixed where **diff** and **update** were not seeing changes from a stream with a cross-link to a stream hierarchy with a time basis.

## Known Issues

See 4.8 *Known Issues* on page 16.

## Deprecated Features

See 4.8 *Deprecated Features* on page 17

# AccuRev 4.8 Release Notes

Please read these notes to familiarize yourself with the changes in AccuRev 4.8.

## Issues Fixed

### 3670

When **update** detects that it has run out of disk space, it now stops cleanly with an "incomplete update"status and reports the "out of disk space" error to the user.

### 5127, 8329, 18792, 20625, 21212, 21321

**Update** has been enhanced to better handle situations that used to result in "File Busy" failures. Fewer scenarios result in failures, and those that do now return descriptive error messages to help you troubleshoot and correct the problem.

### 5832, 21639

More change package history has been made available to the **cpkhist** xml command,. The expanded history now specifies whether the action was related to a **cpkadd** or **cpkremove** operation, and the **cpkremove** information now supplies the name of the element, not just its eid. This Change Package history is now available in the Java GUI from a new icon on the Issue Edit Form toolbar.

### 7117

In the GUI, lock status now gets updated when you refresh the Stream Browser.

### 12645

Change packages no longer incorrectly appear as "missing" after reverting by change package.

### 14299

**Update** progress bar: In certain situations, particularly on Linux, the progress bar would incorrectly display the percentage complete and not disappear at the end of the update.  This problem has been fixed.

### 14616

**Update** no longer gets confused after two directories have been inverted (for example, directories "a/b" get moved and renamed so that the contents of "b" end up in "a", while the contents of "a" end up in "b").

### 14621

**Update** no longer incorrectly leaves external files when executed after a rename operation.

### 14829

A bug has been fixed which caused change packages on a replica server to not display an issue number.

**14928**

A Help button has been added to the dialog that displays the promote warning "Promote failed due to coalescing problem". Clicking on the Help button displays a Help browser describing the problem and how to resolve it.

**16491, 21720**

Promoted elements that are not associated with an issue ("dark matter") now are visible in the stream. The xml **issuelist** and **issuediff** commands now support a new `show_unaffiliatechanges=true` attribute and generate extra output with a list of all the unaffiliated file changes. In the GUI, a row for the unaffiliated changes (displayed as "NONE" with a black background) has been added in the Show Active Issues table. See the 4.8 on-line help for details.

**17373, 19155**

**Update** no longer fails with an incorrect 'Element has moved:' error, which sometimes occured when dealing with case-sensitive operating systems and case-insensitive depots.

**17879**

**Send to Change Palette** now correctly handles target directories that cross-link back to source.

**18287**

AccuRev replica servers no longer need their own license files. All license checks are now done on the master.

**19410**

**Update** now correectly handles the following case:

1.  A workspace contains an active file under some directory.

2.  One transaction moves the directory to a new location

3.  A subsequent transaction excludes a directory that is an ancestor of the old path before the move.

Prior to this fix, AccuRev would complain that the active element would become stranded, because it was looking at the old name rather than the new name of the active element.

**20045**

**Update** has been corrected so that updating xlinks no longer results in missing files,.

**20182**

An issue has been corrected which caused malformed XML (redundant closing tags) to be generated from the command **accurev hist -p *<stream>* -fx -t*<trans>***

**20341**

Change package behavior has changed so that when you add a merged version to a change package, the basis version of the change package is modified to be the common ancestor of the merged version.

**20516**

When updating a workspace which included files that had been archived, the GUI would report "Update failed" when it actually succeeded. The GUI now reports that update has succeeded

**20733**

It is now possible to promote all active elements up to and including a given transaction, using the syntax **promote** -t <transaction> -d.

**21039**

**Issue Diff** now correctly shows an issue that only has a defunct file attached to it.

**21048**

**Promote** by transaction and by change package now ignore element versions that are already in the destination stream

**21050**

**Promote** by transaction and by issue now purges elements from the default group if those elements are the same version as the backing stream. By ignoring all elements that are the same version as in the backing stream, redundant virtual versions are not created in the backing stream.

**21058**

The "Dependent Issue" column in the Issue Dependency Details panel has been enhanced. The bottom pane of the "Issue Dependencies" tab now provides a combo box with two entries:

- "Show Issue(s) That The Selected Issue Depends On"— Default. New behavior.
- "Show Issue(s) That Are Dependent On The Selected Issue"— Old behavior.

The old "Dependent Issue" column has been renamed to either "Selected Issue Depends On Issue(s)" or "Issue(s) Dependent On Selected Issue" depending on what is selected in the combobox.

**21585**

The **Issuelist** command now only considers eids in the default group, which improves performance.

**21685**

A problem has been fixed with **show -s** where a time basis could return incorrect results or, in certain cases, cause an infinite loop.

**21733**

The **Update** "file busy" error now causes the GUI to display a descriptive error message.

**21738**

A new **View Log File** button has been added to the "Update Failed" warning dialog, helping you to identify and correct problems that prevent **Update** operations from completing.

**8753, 16562, 20805, 20813, 21492, 21560 - 21566, 21568, 21570, 21571**

Several customer-reported documentation issues and enhancement requests have been addressed, including typos, missing or incorrect details, and expanded explanations. Also, the *Command Reference* PDF now provides running headers across multiple pages of command descriptions, identifying which command is being discussed .

**21492**

Configuration information for **Mac OS X** platforms has been enhanced in the **AccuRev Installation Notes**.

# Known Issues

**N/A**

On Windows Vista and Windows 7 the **update** command may fail with a "Move aside directory unusable" error.  If this happens, delete the `ac_tmp_map.txt` file in your `HOME/ .accurev directory` and try again.

**21829**

Recent Chrome browsers do not work with on-line Help systems (see `http:// code.google.com/p/chromium/issues/detail?id=47416`). A security enhancement to Chrome browsers in June 2010 has caused problems in several on-line Help systems. In AccuRev's case, the left-hand navigation pane is blank, and it is impossible to display the Table of Contents, Search, and Glossary tabs. Possible workarounds include:

- rolling back to an older version of Chrome

- using a different browser

- disabling the security feature in the AccuRev preferences

- disabling the security feature system-wide

Google has provided a command line switch to disable this new security feature. You can try disabling this feature just for AccuRev Help, by using the following procedure:

1. In the AccuRev GUI, go to **Tools**, **Preferences**

2. In the On-line Help Browser field, specify the start-up command line for Chrome with the "--allow-file-access-from-files" argument (Windows example shown):

```
"C:\Documents and Settings\<user>\Local Settings\Application
Data\Google\Chrome\Application\chrome.exe" --allow-file-access-from-
files "%1"
```

If this does not work for your installation, another option is to try using this switch as the default for all instance of Chrome on your system. The following example shows how to use this fix in Windows. Adjust appropriately for other operating systems. The following procedure assumes that you have Chrome set as your default .htm/.html browser:

1. Open Windows Explorer.

2. Navigate to **Tools** => **Folder Options** => **File Types**

3. Select "HTM" or "HTML", then click Advanced.

4. Select **Open**, then click **Edit...**

5. In the "Application used to perform action:" field, you should see a line similar to:

   ```
   "C:\Documents and Settings\<user>\Local Settings\Application
   Data\Google\Chrome\Application\chrome.exe" -- "%1"
   ```

6. Replace the empty "--" with "--allow-file-access-from-files":

   ```
   "C:\Documents and Settings\<user>\Local Settings\Application
   Data\Google\Chrome\Application\chrome.exe" --allow-file-access-from-
   files "%1"
   ```

7. Click **OK**, **OK**, and **Close** to save your changes and exit out of the dialogs.

Of course, if this line has already been customized at your site, you will will need to adjust the above instructions as needed.

Also, note that implementing this fix will disable a security change introduced with Chrome, so the security policies of some organizations may prohibit them from doing this.

## Deprecated Features

Support for the "traditional" authentication method will be discontinued in a future release of AccuRev. If you still use tradtional authentication, please switch to "accurev_login" or "custom" authentication. Please see the "AccuRev Security Overiew" chapter of the *AccuRev Administrator's Guide* for information about authentication methods.