

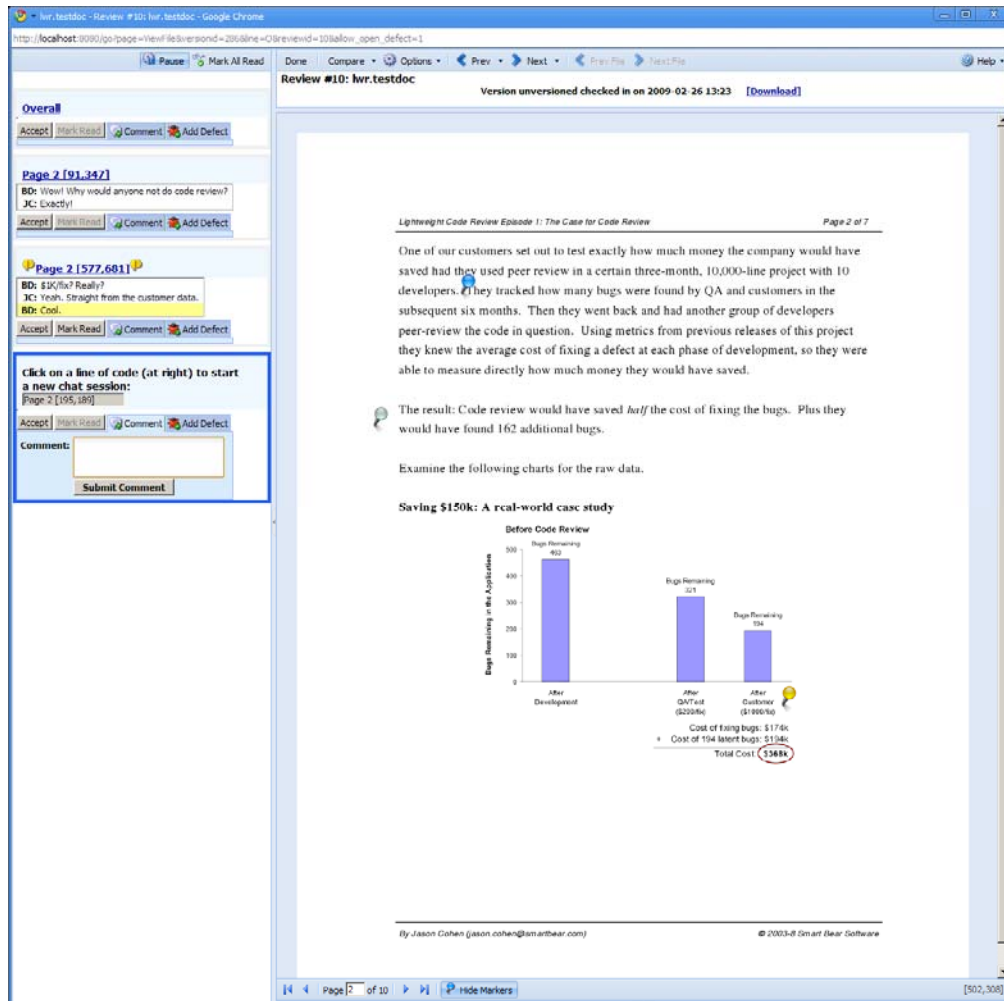
Top Twelve Reasons to Upgrade to Code Collaborator 5.0

The next major release of Code Collaborator is version 5.0. The first beta release will be in April, 2009.

The 5.0 road map has a long list of features and there are a variety of ways to slice and dice that list. Some of the features are big and some are relatively small. Most are of interest to end users while others are intended to make administration easier. Some are related to specific version control systems, others work across all version control systems, etc.

Existing Code Collaborator users will find a multitude of useful improvements in version 5.0. Twelve of our favorite features include:

- **Document Review** - Extends Code Collaborator beyond text files to document review, allowing you to more



The screenshot shows a web browser window displaying a document review session. The document title is "Review #10: hr.testdoc" and it was checked in on 2009-02-26 13:23. The document content includes a section titled "Lightweight Code Review Episode 1: The Case for Code Review" and a case study titled "Saving \$150k: A real-world case study".

The case study text states: "One of our customers set out to test exactly how much money the company would have saved had they used peer review in a certain three-month, 10,000-line project with 10 developers. They tracked how many bugs were found by QA and customers in the subsequent six months. Then they went back and had another group of developers peer-review the code in question. Using metrics from previous releases of this project they knew the average cost of fixing a defect at each phase of development, so they were able to measure directly how much money they would have saved. The result: Code review would have saved *half* the cost of fixing the bugs. Plus they would have found 162 additional bugs. Examine the following charts for the raw data."

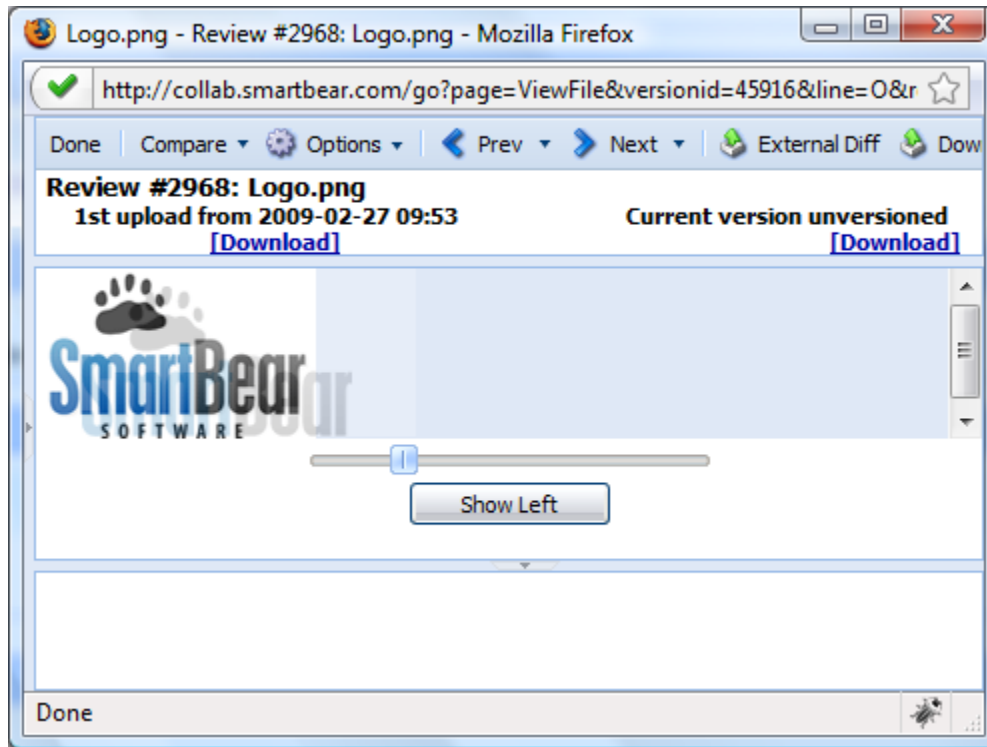
The bar chart, titled "Before Code Review", shows the number of bugs remaining in the application at three stages: "After Development" (462 bugs), "After QA/Fix" (\$220k), and "After Customer" (\$180k/56). The total cost of fixing bugs is \$176k, and the cost of 114 latent bugs is \$114k, resulting in a total cost of \$290k. The chart also indicates that after code review, the total cost would be \$140k, saving \$150k.

Stage	Bugs Remaining	Cost
After Development	462	-
After QA/Fix	121	\$220k
After Customer	56	\$180k
Total	639	\$290k

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easily do things like design reviews. Includes native support for .pdf files and in the future native support for additional document types.

- **Image Review** - Similar to Document Review, but with a cool diff viewer specifically for image files (.png, .jpg, etc.) that can show one version of the image overlaid on another. The transparency of the top image can be



controlled with a slider so that you can "see through" to the other version of the image.

- **URL Review** - Yet another type of "thing" that can now be reviewed: web pages, wikis, and files from document management systems.
- **User Groups** - Adds the ability to assign Code Collaborator users to groups. A group can represent anything you want; common uses will be for modeling organizational hierarchy and/or project assignments. Groups are used to filter the participant drop-down list, filter reports, and optionally to control access to a review.
- **Notification Control** - Gives you control over exactly which events during a review (comments from others, new file versions, etc.) cause you to receive a notification.

Moving On

I am Until

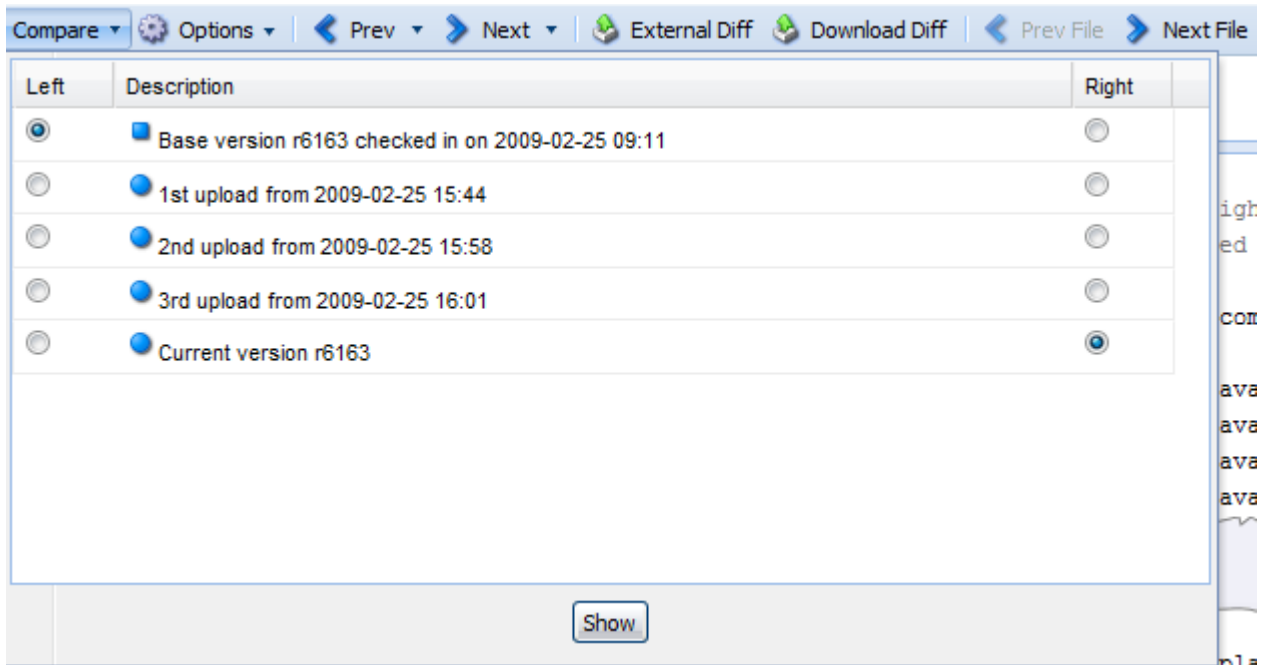
- Any Activity
- Activity by Author
- File Activity
- Someone Pokes me

Finishing the Review

All defects have been fixed.

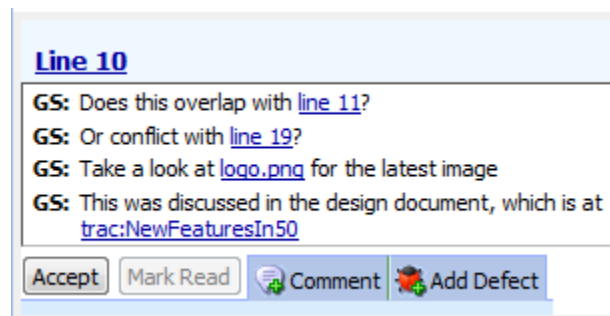
If you finish the review now, you are accepting these changes as-is. If another participant makes a significant additional comment, you will be re-invited to the review.

- **Compare Any Two Versions** - An enhancement to the diff viewer that is useful when a file has been re-worked multiple times during a review.



With this new feature you can compare any two versions of the file, not just the most recent upload with any other version.

- **Prev/Next File Diff** - Another enhancement to the diff viewer; buttons take you to the next or previous file in the review, so that you don't have to go back to the review summary screen.
- **Enforce Version Control System Access Control** - Prevents users from seeing file content in a review unless the appropriate access is allowed in the version control system. (In version 5.0, this works with Perforce only.)
- **Add Committed Changelist from the Browser UI** - Allows you to add a changelist to a review directly from the browser UI - no client-side application needed! Especially useful for post-commit reviews. (In version 5.0, this works with Perforce and Subversion only.)
- **Improved Review Summary Refresh** - The code has been rewritten to do updates in the background and to no longer scroll when there is a long list of files in a review.
- **Additional Automatic Links** - Provides an easy way to click a link and go to the review of a specific file, or line of code within a file, or to an external system.
- **Action Item for Commit** - Will commit reviewed files to your version control system for you. (In version 5.0, this works with CVS, ClearCase, Perforce, Subversion, and Team Foundation Server only.)



- **Chat Comment Added on File Upload** - Comments are automatically added to the General Chat in the review summary screen that describe the upload of re-worked files; each comment includes a link to the file.

```
General Chat  
PJ: ** New versions uploaded: Paul Jimenez uploaded 1 file: AbstractCollaboratorStoredProcedures.java **  
PJ: ** New versions uploaded: Paul Jimenez uploaded 1 file: ICollaboratorStoredProcedures.java **  
PJ: ** New versions uploaded: Paul Jimenez uploaded 1 file: Role.java **  
PJ: ** New versions uploaded: Paul Jimenez uploaded 1 file: ReviewMovingOn.java **  
PJ: ** New versions uploaded: Paul Jimenez uploaded 1 file: Role.java **  
PJ: ** New versions uploaded: Paul Jimenez uploaded 1 file: AdminCustomizeRoles.java **
```

If you look closely, you'll see that there are actually thirteen entries in the list above. As mentioned, version 5.0 has *many* new features. :-) The list above is just a sampling.