

# Lean R&D Real-Time Collaboration Platform

## ClearWorks

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### Enterprise Edition Visual Studio Subversion Plug-in

#### Install Manual

**Description:** Subversion server software - source code version control system is part of ClearWorks built-in servers, belonging to part of run-time all-in-one package. This manual provides information for the Net development environment, Microsoft Visual Studio2005, or Visual Studio2008 using Subversion plug-in AnkhSvn.

**Content:**

- \* Support for Subversion version
- \* Install Visual Studio 2005/2008 of the Subversion client-side plug-in
- \* Set up source code management plug-in
- \* Check Out the project source code
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- \* Write code to achieve functionality or fix Bug, submit the code changes
- \* See Issue-related code changes
- \* On-line Diff Issue-related code changes

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Last revision date: July 6, 2009

# 1, Supported Subversion Versions

ClearWorks built-in Subversion (SVN) version 1.5.x, support for merger and tracking (Merge tracking), a specific visit [http://subversion.tigris.org/svn\\_1.5\\_releasenotes.html](http://subversion.tigris.org/svn_1.5_releasenotes.html) , understand the Release Note for instructions.

# 2, Install Subversion Client-side Plug-in for Visual Studio 2005/2008

File AnkhSvn-2.0.5250.202.msi, click on can be installed directly. Download: <http://ankhsvn.open.collab.net/servlets/ProjectProcess?pageID=3794>

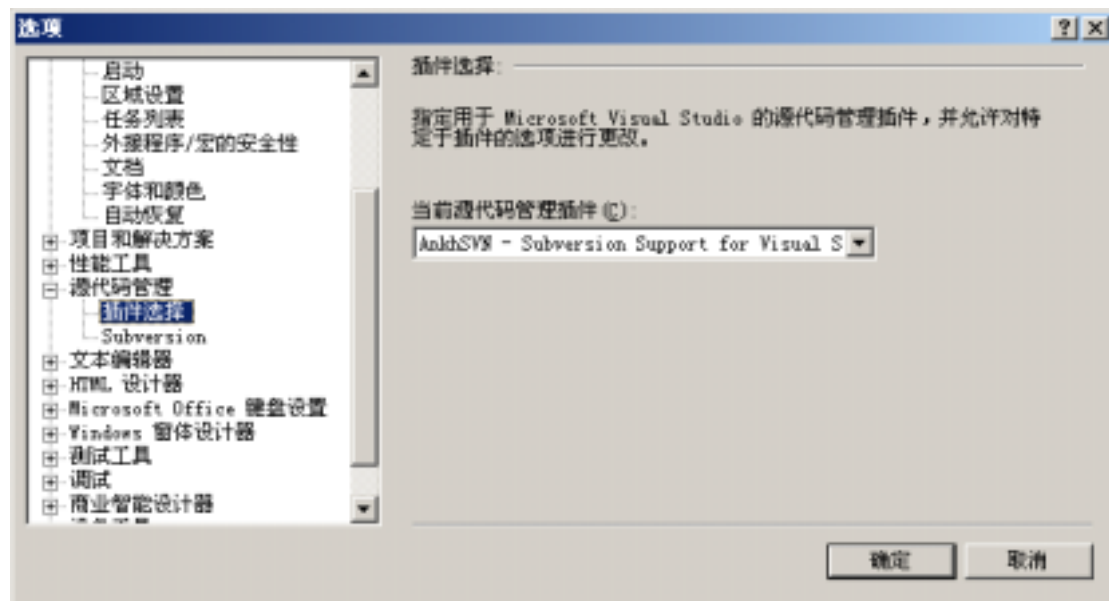
# 3, Set up Source Code Management Plug-in

Open VS2005, Tools - "Options -" source code management,

- a), The current source code management plug-in option AnkhSVN
- b), Subversion can choose an external diff and merge tools, merge tools can be used WinMerge.exe.

Can also check Manually choose between Internal and External Diff.

- c), Click "OK", save the settings, the following picture.



## 4, Check Out Project Source Code

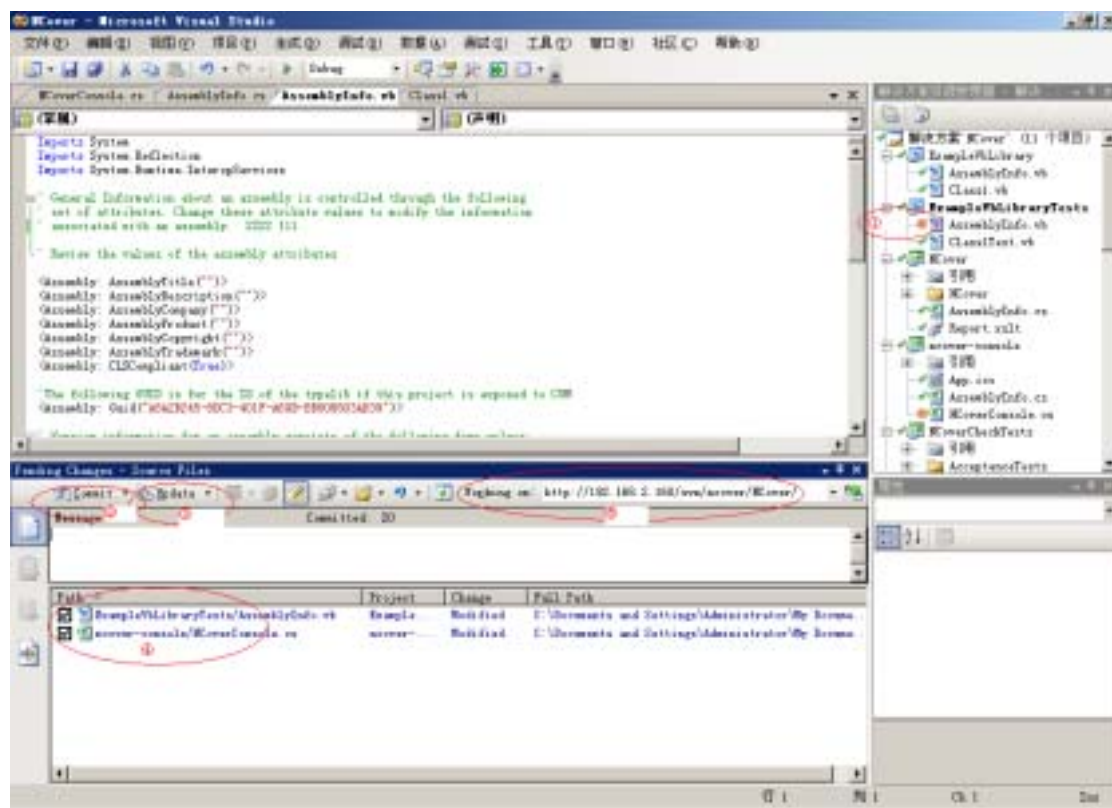
Project initialization, start VS2005, File -> Subversion-> Open from Subversion,  
Select the items you want to check out, select the .Sln can Check out the selected project.

Such as the URL can be:

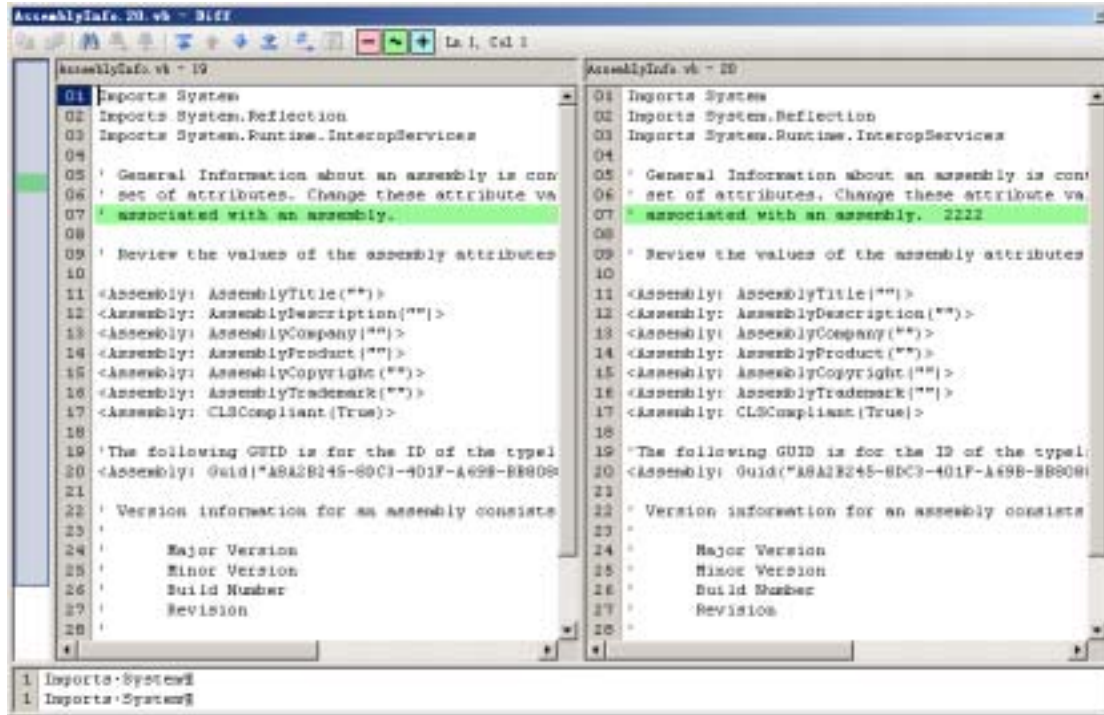
<svn://192.168.2.160/svnrepos/ncover>

<http://192.168.2.160/svnrepos/ncover>

SVN plug-in installed, the working space into a following like this:



The revised document workspace project management tree on the right inside the small red square will be shown below in the original code will promptly show you which files are modified, the project working path, provide updates on the latest server code button, modify the test to submit revised button and so on. You can also view a local or remote server, the specific changes between different versions of the content differences, the following figure:

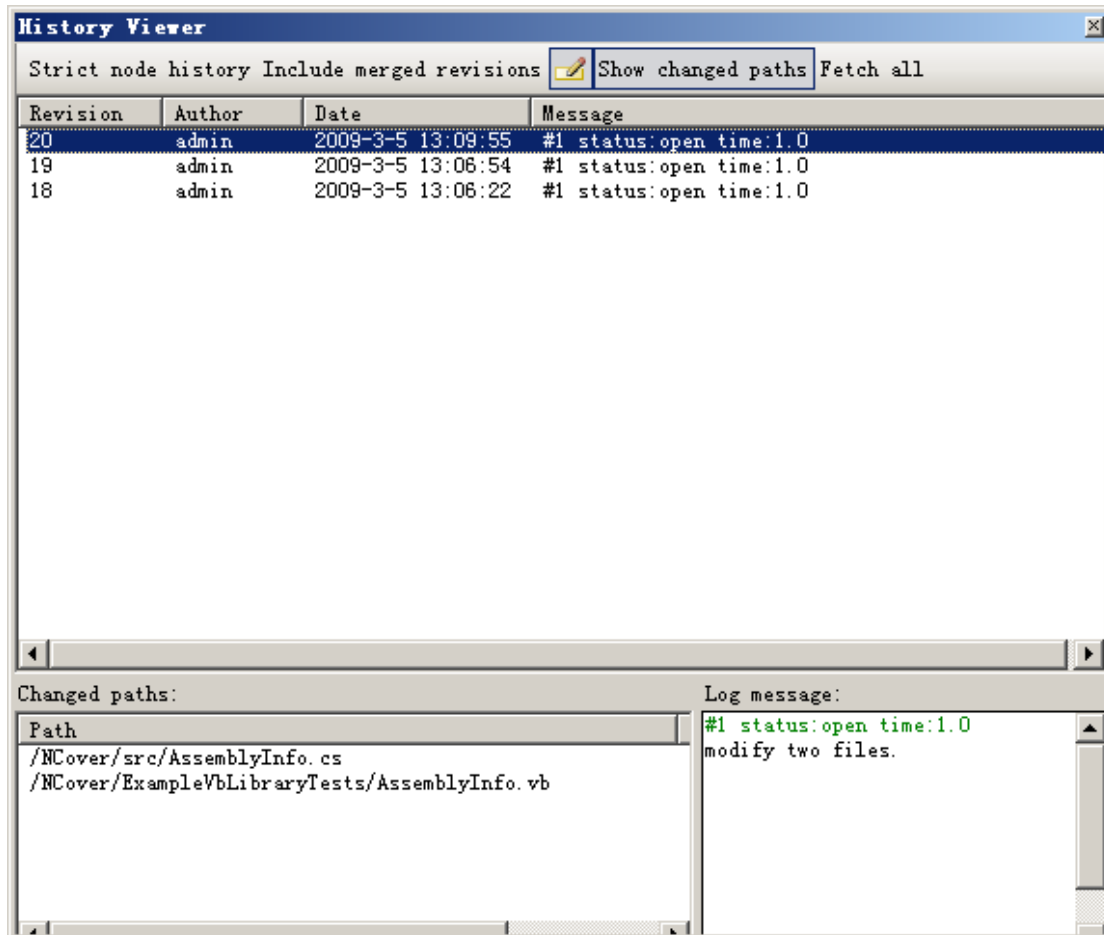


## 5, Subversion Daily Operations

Check out the project in the future, that is, the code can be routine check in, check out, diff and other operations, and

Mouse Solution Explorer, right-click on the relevant items, related to operations occurs Subversion menu,

The specific meaning of each menu and operating methods can refer to TortoiseSVN\_cn.chm files. You can also view submitted the project history, the following diagram, the specific operation and TortoiseSVN comparable.



## 6, Write Code to Achieve functionality or fix Bug, Submit the Code Changes

The original code changes and Issue (feature or bug) is associated, Check in when you note the following format:

```
# 3 status: fixed time: 2.0:6
some comment example text.
```

Description:

Note from the four components:

- 1), # 3 indicates that the code changes and the number is associated with three of the Issue.
- 2), status: fixed, said the state of the Issue has been fixed,

According to the notes ClearWorks update the status of the relevant Issue, if the state has been fixed, then corresponding keyword can be: close / closed / fix / fixed

If the status remains open, then the corresponding keyword can be open / ready.

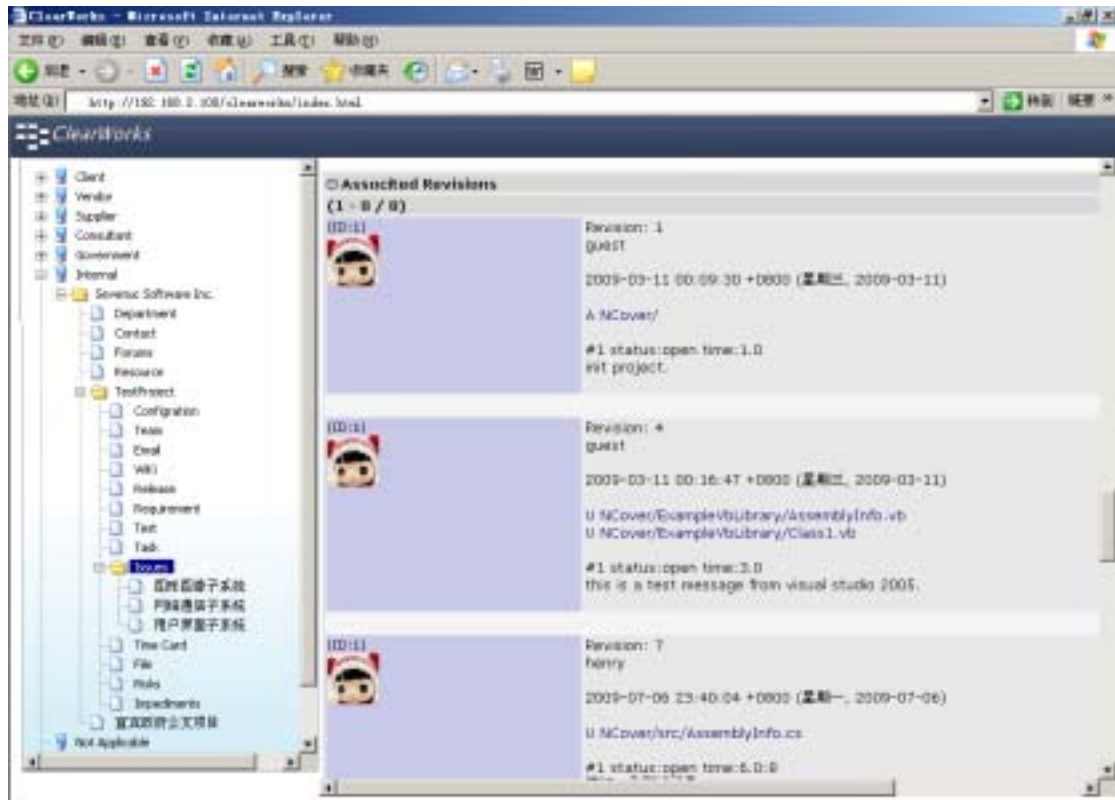
- 3), time: 2.0 to fix the bug that took 2 hours 0 minutes,

Time format can be 2.0:6, the last an estimated 6 to fix the bug that is left for 6 hours.

4), some comment example text. To add text annotations.

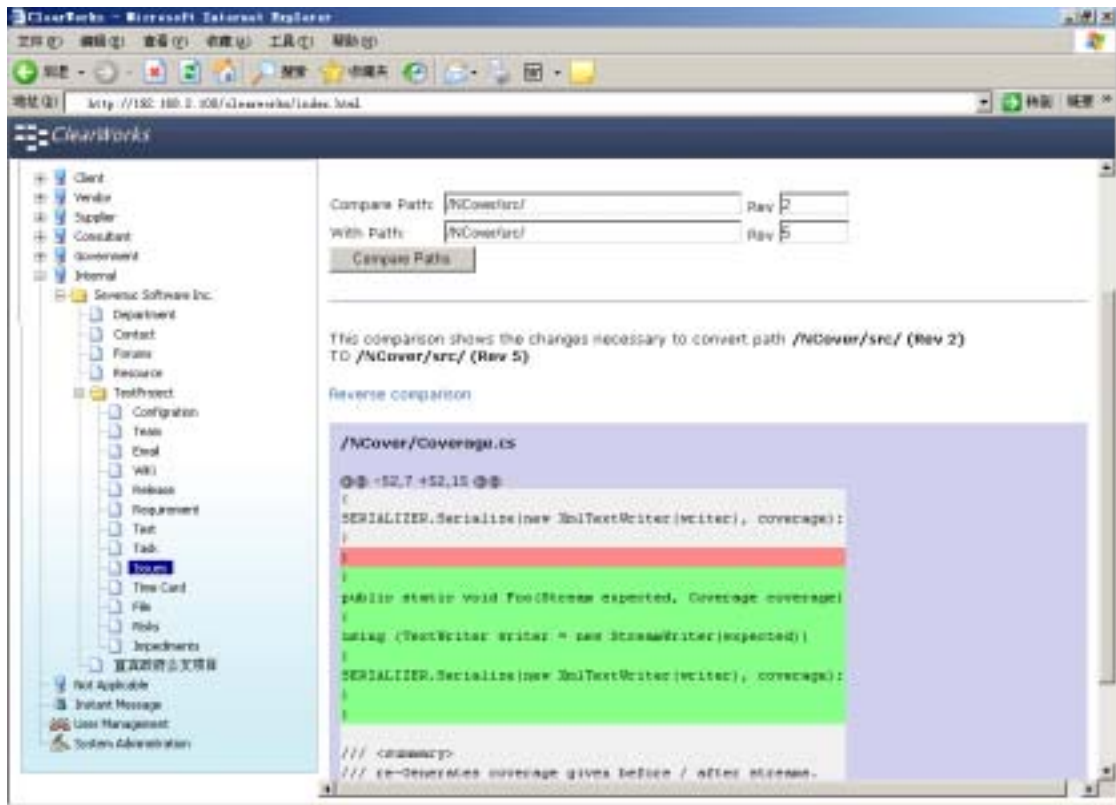
## 7, View the Issue-related Code Changes

Issue associated with the code changes and later, in ClearWorks which you can view that its state has changed, and monitor the Issue of testing staff will receive the corresponding e-mail notification system for the code changes have also been recorded, the following figure:

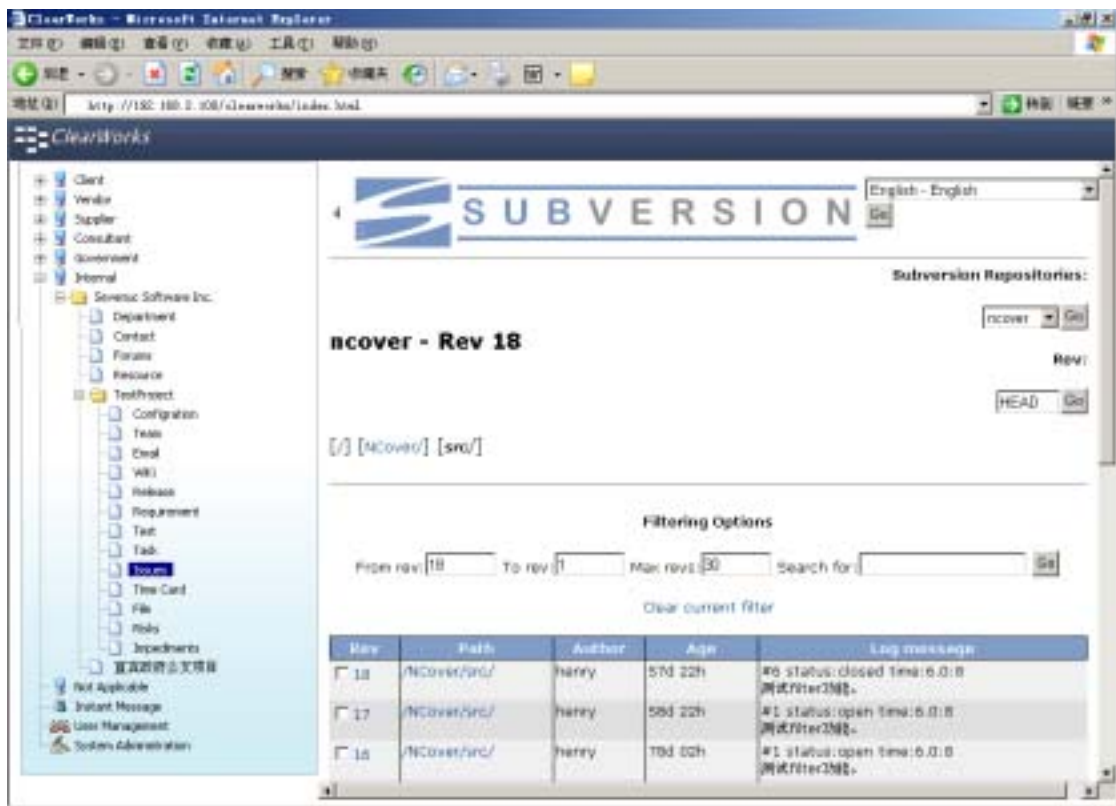


## 8, On-line Diff Issue-related Code Changes

Click ClearWorks in Issues in the development of a specific log file, you can also compare the code-line version of the differences in the following figure:



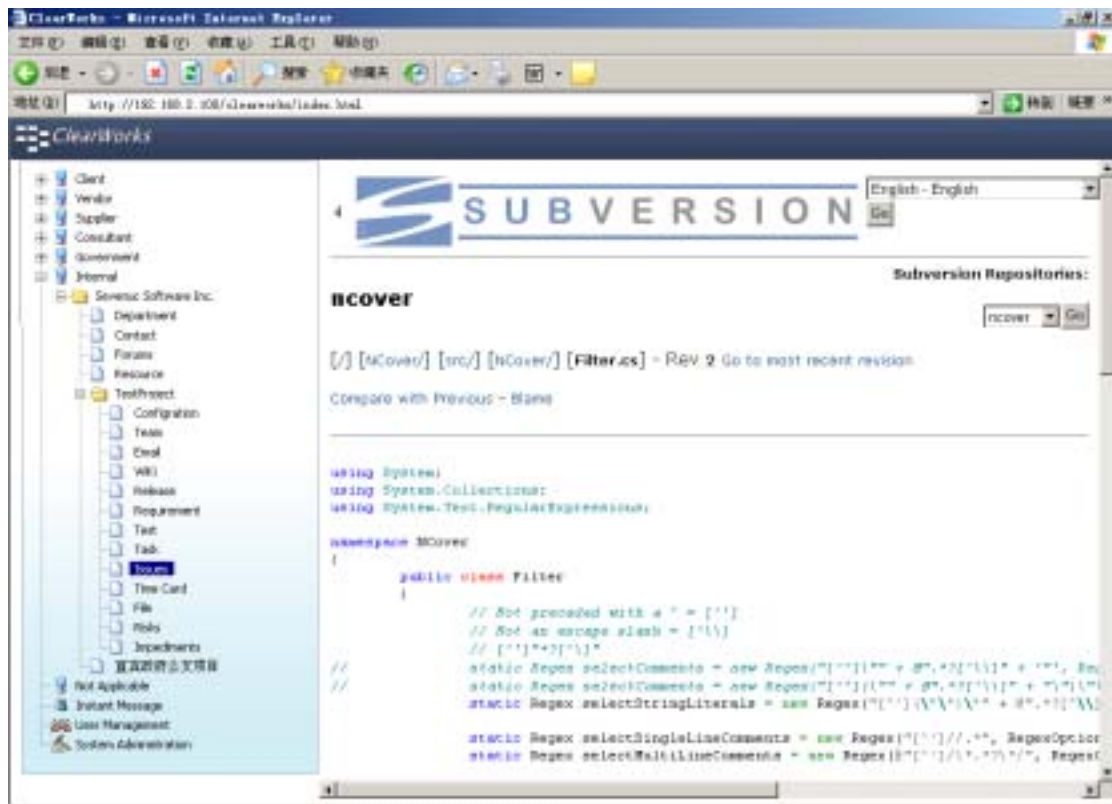
You can also view all the branches, the version submitted to the history, notes and so on.



The figure shows the version of the submission history.

ClearWorks offers 139 kinds of program development language code syntax highlighting, line

numbers automatically generated functions, the basic relation to the world, including most of the existing language, in addition to commonly used languages such as: vhd, verilog, tcl, bash, make, lua, matlab , perl, c, c + +, java, csharp, vb, python, php, ruby, javascript, actionscript, asm, applescript, asp, cobol, css, eiffel, erlang, groovy, haskell, idl, ini, lisp, lotusscript, sql , ocaml, pascal, plsql, rails, scala, scheme, smalltalk, tsql, vbnet, visualfoxpro, xml, etc., but also include a variety of great language, including, depending on your needs, we can also customize for specific language syntax highlighting. Whether you're engaged in chip design, equipment research and development, software development, high-performance computing, systems integrators are able to meet your requirements.



Code syntax highlighting, code-line revision history shows, as well as Blame manipulation.

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