

Lean R&D Real-Time Collaboration Platform

ClearWorks

Enterprise Edition Subversion Built-in

Concise Configuration Manual

Description: ClearWorks Subversion Built-in software is the “Lean R&D Real-Time Collaboration Platform ClearWorks” embedded software source code version control system, belonging to part of the All-in-one run-time package, please refer to other documents, such as the t Eclipse, .Net development environment, Visual Studio and other IDE about manage and configure software source code.

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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 , understand the Release Note for instructions.

2, Add SVN New Project, Create a New Repository

On the system command line, execute the following command:

```
CD D:\sevensoft\svnserver
```

```
D:\sevensoft\svnserver>svnadmin create d:\sevensoft \svnrepos\project2
```

Enter **project2** as the project name you will create, here is an example.

Implementation of the command will be held at D:\sevensoft\svnrepos directory create a new folder project2, has the following structure:

```
|+- project2
||+- conf
||+- dav
||+- db
||+- hooks
||+- locks
```

3, Set User Access Rights for New Project

a) Edit the file D:\svnrepos\conf\svn-authz.conf, set up new engineering user group and user access.

```
[groups] (this section set up the development teams)
```

```
team1 = jerry, henry, sally, joe (team 1 members)
```

```
team2 = frank, sally, jane (team 2 members)
```

```
team3 = steven, sally, joe, frank, mary, jane (team 3 members)
```

```
[/] (Root directory access)
```

```
@ team1 = rw
```

```
[ncover: /] (access to the ncover project)
```

```
@ team1 = rw
```

```
@ team2 = rw
```

```
[cobertura: /] (access to the cobertura project)
@ jconver-developers = rw (jconver-developers group could read and write)
jane = r (jane is only readable)
```

```
[example: /] (access to the example project)
@ example-team = rw
jerry = wr (jerry can read and write)
jane = r (jane is only readable)
```

The same can be set to a subdirectory, share read and write permissions to SVN modules.

b) Add or modify the user password, `D:\sevensoft\apache\bin\htpasswd -mc D:\pass.txt username` this command will produce the file `D:\pass.txt`, append the line to the file end `D:\svnrepos\conf\svn-password.pass`.

pass.txt Content Sample:

```
jerry: $ apr1 $ JI44CcwB $ x8W.UDN2IYbc1iPFTXjGv0
```

4, Import the Project Initial Code

Please locate to the project directory' parent directory when import the initial code into repository, such as `example_project` in the C: root directory, then:

```
c: Enter
```

```
cd \ Enter
```

```
svn import example_project file:///d:/sevensoft/svnrepos/ example -m "First Import" Enter
```

5, ClearWorks Configuration

a) Configuration `D:\sevensoft\clearworks\includes\config.php`

Refer to the following three lines:

```
$ dPconfig [ 'TestProduct' ] [ 'scmtype' ] = "Subversion"; (source storage type)
```

```
$ dPconfig [ 'TestProduct' ] [ 'repos' ] = "D:/svnrepos/project1"; (source storage location)
```

```
$ dPconfig [ 'TestProduct' ] [ 'repos_name' ] = 'project1'; (source repository name)
```

As noted, TestProduct is english name for the project, project1 is the repository name for the project. A "example" project will have a similar three lines of settings, such as:

```
$ dPconfig [ 'example' ] [ 'scmtype' ] = "Subversion";
```

```
$ dPconfig [ 'example' ] [ 'repos' ] = "D:/svnrepos /example";
```

```
$ dPconfig [ 'example' ] [ 'repos_name' ] = 'example';
```

Note: scmtype can be one of VSS (Visual SourceSafe), CVS, Subversion or Git, ClearWorks Built-in default is Subversion.

b) Configuration D:\sevensoft\clearworks\websvn\config.php

Found:

```
$ config->addRepository ( 'project1', 'file:///D:/svnrepos/project1');
```

add a line:

```
$ config-> addRepository ( 'project2', 'file:///D:/svnrepos/project2');
```

Set user permissions of SVN Repository access, when user want to view the development logs of one issue, browsing revision history, submit changes, on-line view versions, Diff code revisions, this settings will make the appropriate permissions checks.

6, Copy the Server-side Hook Files

Copy the pre-commit.bat and post-commit.bat two hook files to the newly created project hooks directory, such as d:\sevensoft\svnrepos\project1\hooks.

Such as:

```
copy d:\sevensoft\svnrepos\project1\hooks\pre-commit.bat d:\sevensoft\svnrepos\project2\hooks
```

```
copy d:\sevensoft\svnrepos\project1\hooks\post-commit.bat d:\sevensoft\svnrepos\project2\hooks
```

7, Configure the Eclipse Development Environment

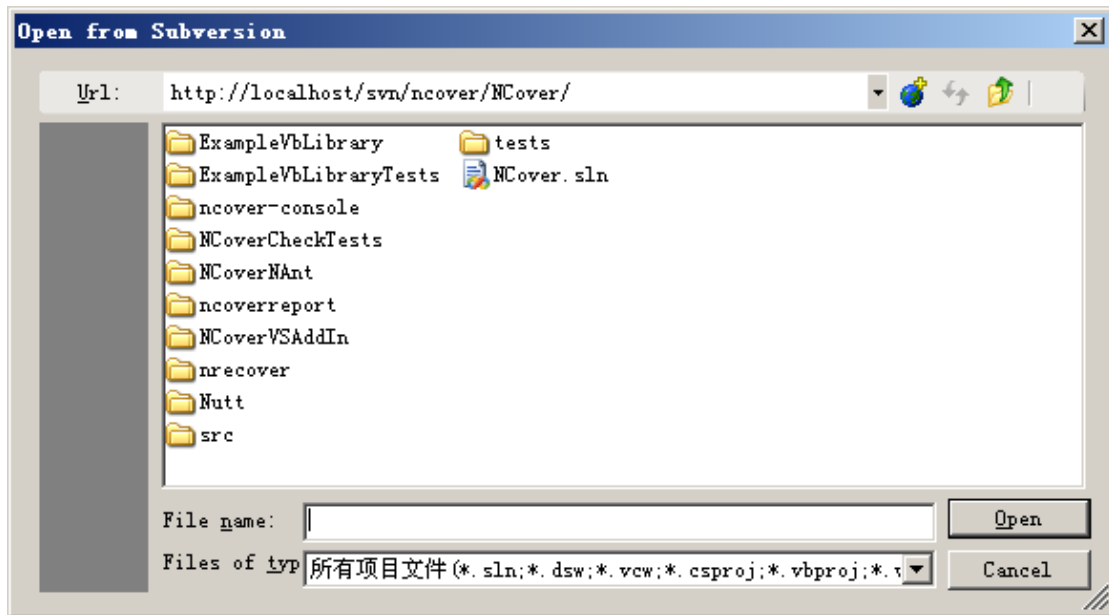
Start Eclipse, File-> Import-> select SVN-> from the SVN detection project, as shown below:



8, Configure the Visual Studio 2005 Development Environment

Check Out the project source code, start VS2005, File -> Subversion-> Open from Subversion,

<http://192.168.2.160/svnrepos/ncover>, as shown below:



9, Code Submit Test

After the original code “Check out” to local from the server, you can write the code inside the IDE, write code to achieve a feature, or do a bug fix, then you can submit the modification to the server. And you can do local Diff with different versions etc. Note: Code comments must be submitted in line with the agreed format or policies, otherwise the server will refuse your committing.

The daily use of SVN for version control, please refer to Visual Studio 2005 Subversion plug-in AnkhSvn user's manual, as well as Subclipse user's manual etc.

10, OpenSSL and SSH Configuration

ClearWorks built-in Apache server includes OpenSSL support, built-in software version control system Subversion includes support for SSH access protocol specific configuration too, about this topic, please contact our technical supporter.

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