Using the SCC Interface
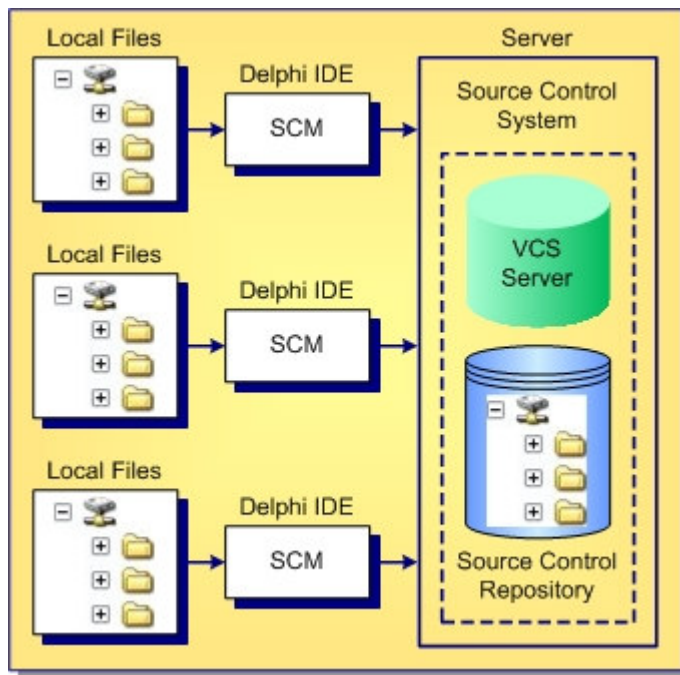
Delphi 2005 supports the following source code control systems through the Microsoft SCC API:

- Borland StarTeam and the StarTeam Microsoft SCC Integration
- Concurrent Versions System (CVS) GUI implementations that support SCC API
- Rational ClearCase
- Microsoft Visual SourceSafe (VSS)

Additionally, you can write your own interfaces to unsupported source control systems, using the Microsoft SCC API.

How Delphi 2005 Interacts with Source Control Systems using the SCC API

Your source code control system typically consists of server and client components. On the server side, the system maintains a database repository that captures a complete snapshot of your project files and incremental changes (deltas or differences) to those files. On your local client, you use the source control client software to manage access to projects and files stored in the server repository, to maintain an audit trail of changes you make to the projects and files, and to provide you with conflict management capabilities. In Delphi 2005, the Source Control Manager (SCM) is an integrated feature that allows you to connect to your source control system on a remote server. You can place projects into and pull projects out of your source control repository, and check in, check out, merge, and compare files.

If your source control system implements the Microsoft SCC API, Delphi 2005 can interact with the source control systems to perform basic source control tasks. Some products, such as StarTeam, provide an SCC integration application that can be installed separately. Other products, like CVS, do not directly support the SCC API, but a variety of third-party clients built as front-end applications to CVS do provide the integration.

You must use a system that includes an integration to the SCC API, and the integration must support MSSCCI 1.1.

Configuring the Source Control System

Configuring Delphi 2005 to work with your source control system is a simple task. First, make sure your source control system is properly installed and configured, and that you know how it operates before you attempt to use the source control capabilities in Delphi 2005. Delphi 2005 automatically detects supported source control systems that you have installed and configured.

You can install and use multiple source control systems from within Delphi 2005. When you perform certain tasks you are required to log into the source control system repository of your choice.

Synchronizing Files

One of the most powerful features of any source control system is its ability to synchronize multiple instances of the same file, to compare lines of text and mark those that overlap, then to merge the file instances without destroying conflicting lines of code or text. Most systems also provide the capability to update your local instance of a file, or even an entire project's files, with the latest source of those files stored in the source control system repository, without destroying any new lines of code you've added to the local instance of the file. You can perform these synchronization operations using the **Commit Browser** from within Delphi 2005.

Related Information

Connecting to the Repository
Placing a Project into the Source Control System
Pulling a Project from Source Control
Checking In Files
Using the Commit Browser
Undoing Check Out Operations