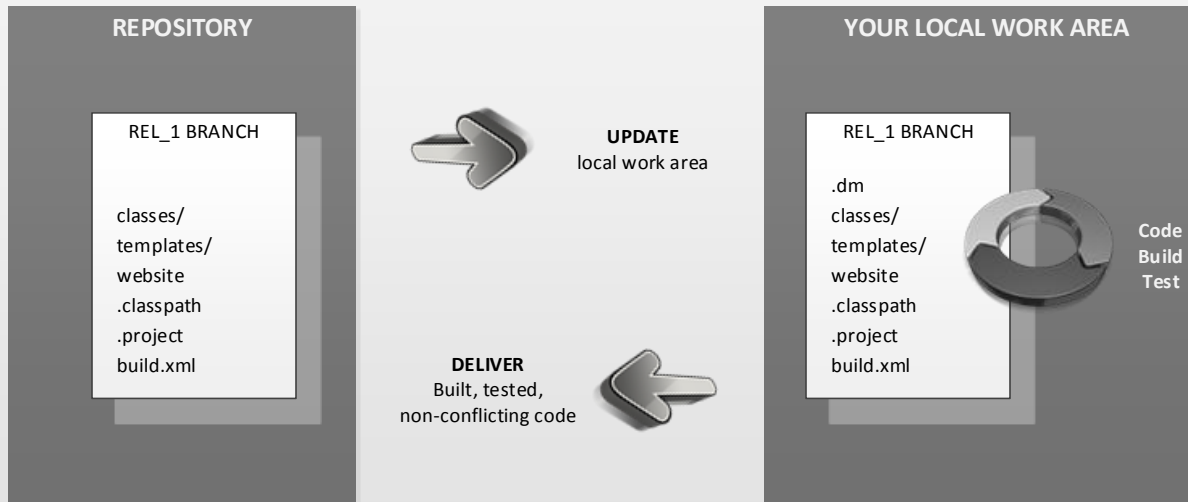


Copy-Modify-Merge Development Approach



Dimensions CM User Interfaces

Streams are supported in the following user interfaces:

- Windows Explorer Plug-In
- Synchronize Wizard
- Web Client
- Desktop Client
- IDE Rich Integrations
 - VS Studio
 - Eclipse
- DM Command Line (see back page)

Terminology

Items (aka files)

Typical items are source code files, executables, program resources such as graphics, and specification documents. Entire directories of files can also be items.

Requests

When a problem, bug, or enhancement arises, you can create a request within Dimensions CM to represent that change or request.

Local Work Area

A work area identifies a location outside the Dimensions CM repository by functions such as update and deliver. Users associate work areas to streams. The association is a user specific setting.

About Streams

Streams enable major strands of development to occur in parallel without conflict. For example, customization changes can be carried out in parallel with the mainstream changes in different branches.

Dimensions CM provides facilities for:

- Merging the contents of streams together
- Identifying and resolving the conflicting files in the resulting, merged work area

Developers implement their code by updating their work areas and delivering file revisions to the stream. This means that any new version of an file will appear only in the streams in which it is created.

Streams are very simple, just two main operations:

- **Update** to copy files from the stream to your work area
- **Deliver** to copy files from your work area to the stream

Streams are particularly suited to development because:

- Streams enforce a single line of descent, preventing conflicts existing in the repository, enhancing the reliability of continuous builds
- Developers resolve conflicts, build and test in their development environment, improving reliability and removing the need for complex merges later on
- Changes are committed atomically to the repository, meaning that developers always get a consistent set of files
- Branching and merging of streams is simple and intuitive, allowing developers to quickly create private streams when needed.

Contact Serena

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Repository Changes

dm add

dm commit (checkin,ci)

dm deliver (de)

dm import

Resolve Conflicts

dm diff (di)

dm status(stat, st)

Locks and Unlocks

dm lockfile (lock)

dm unlockfile (unlock)

dm lockstream (locks)

dm unlockstream (unlocks)

Stream Commands

dm createstream (create, cs)

dm deletestream (ds)

dm exportstream (export)

dm importstream (import)

dm liststreams (lss)

dm switchstream (switch,sw)

Local Area Changes

dm annotate (ann)

dm delete (del,rm,erase)

dm export

dm get (checkout, co)

dm move (mv,ren)

dm revert

dm update (up)

Display Info

dm cat

dm getinfo

dm list (ls)

dm listbaselines (lsb)

dm liststreams (lss)

dm log

HELP

The format for any given command is generally:

dm command parameter_1 parameter_2 ...

[--option_1 --option_2 ...]

For specific help on a command:

dm help <command>

Serena Online Documents and Videos

<http://help.serena.com>

Repository Connections and Global Options

When you invoke the **dm** command the utility will connect to Dimensions repository and server you specify using the global options. If you do not specify global options a login dialog box will appear for the session.

-user <user_name>

-password <password>

-database <database or SID>

-server <server_name:port>

-card

Example:

dm liststreams --user user1 --password alpha --database qlarius_cm@ALM --server winxbox1:8080

dm logout

command to clear your Dimensions login credentials from the session

Changes in File Status

dm status reports on changes that have taken place in a local work area.

It can be run in two different modes:

- Offline

Only report on local changes that have been made in the work area.

- Online

This will report the differences between the local work area and a repository stream.

The status of a file is represented by the following keys:

'?' - A local file not under version control.

'!' - A local file has been renamed/moved.

'A' - A file is in the stream that would be added to your local work area.

'C' - A local file is in conflict with the file in the stream.

Exact reason for the conflict will be provided as additional information.

'D' - A file that has been deleted either from your local work area, or from the repository.

'M' - A file that has been locally modified.