Configuration Management and Refactorings in Eclipse

Refactoring Scenario: Rename operation

User A Renames Pull to Pop

User B Adds an operation "sub"

Merge can't sort it out

Result: Refactoring not applied to added code.

Other refactorings with similar merge problems:
• rename of class
• move
• extract method
• ...

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Architecture

Use COOP/Orm as the repository provider

COOP/Orm (Server)

• Hierarchical storage structure
• Store full projects and deltas created by client
• Retrieves all deltas needed to recreate the required version
• Version aware server

Eclipse (client)

• Create deltas as editor operations (e.g. a refactoring op.)
• Restore old versions from deltas
• Create merge from full version and deltas

How this solves the problem:
• Eclipse constructs a delta with one refactoring (rename pull to pop)
• At merge the refactoring is applied also to the added code

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