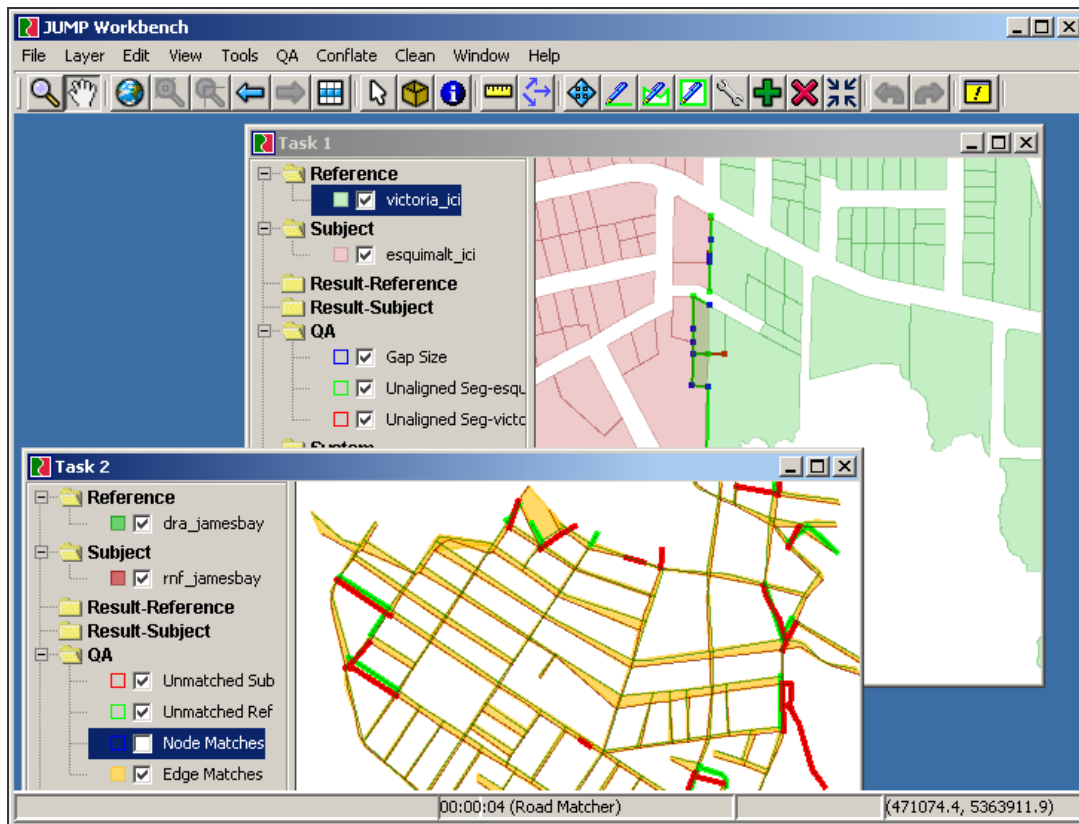# Java Conflation Suite
Data Sheet

Version 1.0

Overview

The Java Conflation Suite (JCS) includes:
- An API containing components for performing conflation tasks, and
- A set of plugins for the JUMP Workbench, which allows batch and interactive execution of conflation tasks.

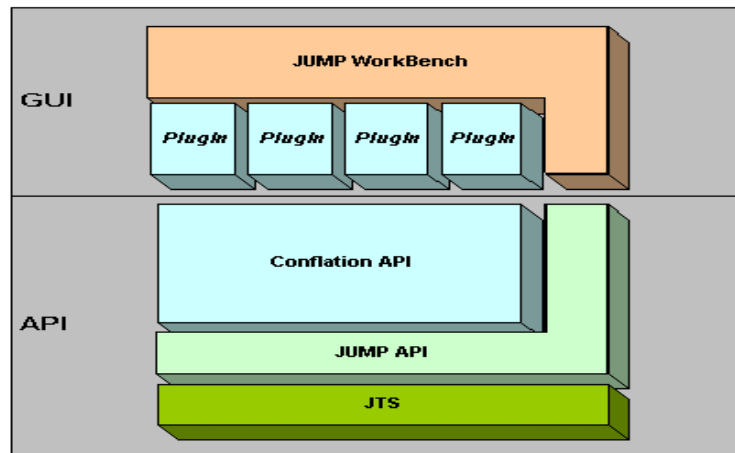JCS is built on the JUMP Unified Mapping Platform, which provides:
- The JUMP Workbench, an extensible, interactive GUI for visualizing and manipulating geometry and attributes, and
- An API for performing basic spatial data manipulation tasks, including data I/O, spatial indexing, data QA tools, and more.

JCS Tools running in the JUMP Workbench

Architecture

The JCS Architecture is modular and reusable. Core functionality is exposed as a Java API for easy development of batch processes, or for reuse in other applications. Interactive functions are provided as plugins to the JUMP Workbench.

JCS Feature List

General

APIs and Framework	• 100% Java (JDK 1.3 and above)

Quality Assurance Tools

Coverage Validation	• Find Gaps • Find Overlaps
Cross-Dataset QA	• Find Unaligned Segments
Change Detection	• Diff Segments – finds segments which are different between two datasets

Conflation Tools

Coverage Cleaning	• Coverage Cleaning: Align Segments (removes gaps / overlaps)
Coverage Conflation	• Coverage Alignment: Aligns one coverage to another to ensure no gaps or overlaps between coverages. Coverages may be adjacent or overlapping
Road Network Matching	• Match road network based on topology and geometry metrics