

Project Profile

Software Development/Systems Integration

Client: US Army TEC

Project: Commission Redistricting tool for Elections Canada

Duration: 3 Years

Project Cost: \$600,000

Software: ESRI ArcGIS

Distribution: US Army TEC, NGA, JWAC

Project Description:

Digital Engineering develops and markets an automated Conflation product based on a unique statistical analysis approach. ConflEX is a first of its kind conflation tool, which uses this approach to automatically transfer attributes from a source to a target map. This product was originally developed based on ESRI's MapObjects technology and is marketed as a commercial off the shelf product. ConflEX is designed for use by a data conversion technician. As such, it is designed to be highly automated and simple to use, incorporating a wizard approach to performing most conflation tasks.

Digital has an on going project with the US Army TEC for customization of the Conflation product for military applications. Specifically, ConflEX is to be modified to support the following functions.

1. ArcGIS migration. Under this contract, a new version of ConflEX is under development as an extension to ArcView 9.1. The ArcView version will provide users with the ability to edit conflated data directly inside the ArcView 9.1 platform.
2. Expansion of Conflation Types. At times, military data analysis requires incorporation on schematics and CAD drawings into the conflation process. Under this project, ConflEX will be enhance to allow the use of non-map type data into the conflation process.
3. Web based Interface. The current version of the ConflEX product is a desktop GIS application. With the proliferation of web based mapping services, it is anticipated that a Web based version of ConflEX which will operate as a GIS Web Service will significantly enhance the usability of the product. Work under this project will enhance ConflEX to include a web version with a common GML interface.

