



## BC Ministry of Advanced Education Government Communications & Public Engagement

### – Data Warehouse Distribution Service (DWDS)

The Data Warehouse Distribution Service (DWDS) was originally developed in 2001 to provide a self-serve interface for data products from the BC government spatial data warehouse. The solution was initially a combined J2EE user interface with FME-Objects based Java application.

The DWDS project provided the necessary upgrades to existing applications and the development of new applications to facilitate the use of new Safe Software products. Order management and queuing were significantly improved by the upgrades. Additionally, the upgrades were designed such that Data Download services could be integrated with other DataBC applications in the future as desired. The module Forte developed for iMapBC is an example of how DataBC applications can be integrated with the DWDS. The module for iMapBC allows users to place data download orders in the DWDS from iMapBC by selecting layers from their iMapBC session. Users can choose to work with selected features in a layer, or filters that are applied to a layer. Area of interest for the data download request can also be defined based on the map extent in their iMapBC session. Forte has been continuously involved in supporting the ILRR application and database and have been the prime contractor responsible for ILRR system maintenance since 2008.

### BUSINESS SOLUTION HIGHLIGHTS

Key project activities to date have included the replacement of the Java application with FME Server workspaces for processing data, the development and deployment of a related REST Web service, a javascript library to share data orders between applications, and a Geocortex Essential plug-in to add layers from a Web map to a data order.

### TECHNOLOGY SOLUTION HIGHLIGHTS

The Distribution Service Integration project is comprised of new technology components as well as the modification of existing DataBC applications. This project will meet the DataBC business needs of providing improved data distribution using existing DataBC applications, as well as streamlining data product security and distribution configuration.

Technology utilized on this project includes:

- Esri ArcSDE
- Esri ArcIMS
- WebADE
- Tomcat
- Geocortex Essentials (IMF2)
- Safe Software FME® Server / FME Workbench
- Java / J2EE / JSON
- Oracle 10g / Designer

