

Civic Address and Street Centerline Component - Background

The Regional District of Kitimat Stikine (RDKS) 911 addressing and street centerline project started in 2006. Most rural areas did not have civic addresses. A new distance-based addressing system was developed and applied to the rural areas and highway corridors. Address locations were gathered using GPS technology. 700 new addresses were assigned and 200 existing addresses were renumbered.

Pacific Alliance Technologies assisted the Regional District of Kitimat-Stikine with address data consolidation, updating processes and GIS work. They created a web-based solution to allow local governments to update and view their address data. Pacific Alliance Technologies reformats the updated address data and the street centerline data supplied by GIS Innovations into several standards used by Fraser Fort George Regional District's computer aided dispatch.

To consolidate the required geo-referenced address data, the existing local government's Computer-Aided Design (CAD) address data was combined with the Integrated Cadastral Fabric (ICF) database. Using the Parcel Identifier number (PID) from the ICF and the PID from the BC Assessment database, the existing address data was then combined with the BC Assessment address records. The combined address data was reformatted to meet the URISA Street Address Standard and coordinates for every address were created.

A website was set up to help the 911 participants view their address data. The address data, in spreadsheet format, was then cleaned and edited manually, with other community based information added. All local governments did additional work to bring their addresses up to the 911 standard.

The verified address data was compared to the street centerline data provided by GIS Innovations. Gazetted road names were used as the standard. The street centerline file provides street names and address ranges for 911 dispatches. GISI's information also supplies the Digital Road Atlas (DRA) which is the primary tool for RCMP and Ambulance dispatch. After comparison, both GISI and the 911 participants corrected errors and adjusted their data to match.

From the address and street centerline data, the RDKS was able to correct the street names and address ranges in TELUS' MSAG (Master Street Address Guide). This also involved working with the TELUS Service Control Address Group correcting all of TELUS' customer records that did not match street names or address ranges. The address and street centerline data was then reformatted to meet the FDM (computer-aided dispatch software) specifications provided by Fraser Fort George Regional District.

The RDKS also assisted all the First Nations communities in the 911 service area, bringing 2200 addresses up to the 911 standard. This involved complete readdressing of Gitanyow, Gitsegukla, Gitwangak, Glen Vowell and Kitsumkalum. Gitaus, Kitamaat Village, Gitanmaax, Hagwilget, Moricetown and Kispiox Village had numerous new and revised addresses.

Once the new address designs were completed, the address information was added to a CAD map base. Coordinates were generated for each address and a spreadsheet formatted to the URISA Street Address Standard was created for each First Nations community. The addresses were then corrected for errors and inconsistencies. GoogleEarth was used extensively in this process by adding kml file addresses and lot lines to the community images. The First Nations communities worked with the TELUS Service Control Address Group to correct the customer address records. The First

Nations address data was then reformatted to meet FDM specifications and submitted to Fraser Fort George Regional District.

The address data will be maintained through a website for 911 participants. Using a web-based tool, addresses will be edited online. Using the data collected through the website, weekly address and street centerline updates will be forwarded to Fraser Fort George Regional District. The website will also allow 16,700 addresses and 900 road names to be viewed and searched by emergency services. The work that has been done by the 911 participants has also delivered improved address and street name information to TELUS, BC Assessment, Canada Post, BC Hydro, Pacific Northern Gas and City West.