



ATCO Gas Data Integrity Assessment



Custom
Development

Spatial
Integration

Conversion
Migration
Harvesting

Overview

In the 1990s, ATCO Gas had their records converted by an outside contractor, which involved the capture of all mapping for the facilities in Edmonton (held in MicroStation) and the associated database records (Informix). Over a period of time the integrity of the converted records became suspect. ATCO Gas requested WayTo perform an audit to report any inconsistencies between the Graphics files held in MicroStation and an Informix database. Orphans were reported in each of the two sets of data. For graphic facilities that had no parent entity, a “queued edit” function was provided for user to step through the files, and correct or enter, the data again. On completion of the project, the Informix database was migrated to SQL/Server.

Solution

A successful solution required the accomplishment of locating all “orphans”, records in the database that did not correspond to graphic objects, and graphic objects that did not correspond to database records. To this end, WayTo scanned each drawing, created a table of facilities, and sorted them by type and linkage. All facilities that qualified by their graphic attributes were recorded in the database by their appropriate link. Since linear facilities were denoted by lines or line strings, the start and end co-ordinates were also loaded into the tables.

A set of queries was then created to identify the orphans in both directions. The application was also equipped with an ability to drive directly to the problem area. On completion of the project, the Informix database was migrated to SQL/Server.

Results

WayTo delivered a detailed report and a set of tables that permitted a remediation project to be established. The database provided a list of all suspect conditions, storing the co-ordinate locations for orphan graphic objects. Orphan database records were sorted in a form that enabled the establishment of a process to create the correct link with the owner graphic object.

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The report also allowed the client to review the processes that initially caused the orphans.

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