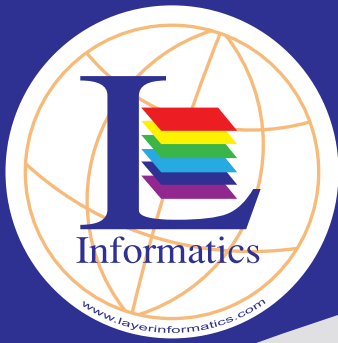
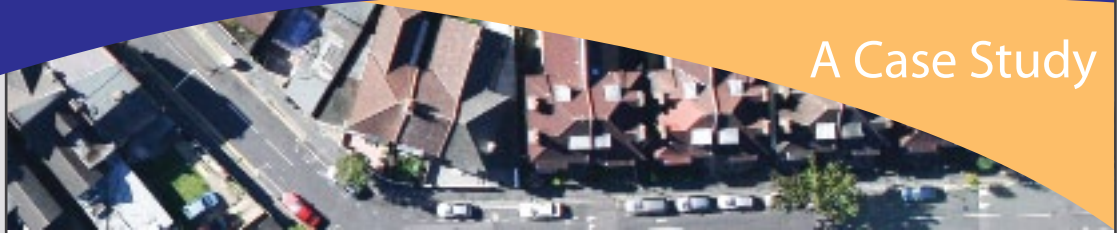




DATA MIGRATION

A Case Study



CHALLENGES:

- A critical data migration project for converting all drawing database from Autodesk .DWG to ESRI .SHP file format without losing data integrity for a major oil and gas application project. The challenge was to convert thousands of files with critical GIS information to ESRI shape file within the time lines defined by client.

INTRODUCTION:

Quantum approach to this challenge used an ESRI technology with customization done on top of ESRI ArcGIS. The major task in this project was to deal with different type of data sets and their nomenclature that was critical to an oil and Gas application. There were several Auto-CAD files and database related to these files. Each of the drawing file was then imported into ESRI Shape file format, such that data integrity still holds good without any loss of database.

KEY ASPECTS:

- Edge matching
- Drawing cleanup
- Topology
- Attribution
- QC/QA

METHODOLOGY:

- Check for the completeness of the existing drawing & perform drawing cleanup for all the layers.
- This project mainly dealt 12 types of layers such as Gas Main, Service Lines, In Line Valves, rub valve TEE or CVT, End Cap, Stopper, Tapping TEE, Transition Fitting, Coupling, Reducer, Continue main symbol.
- Turn on all Layers before drawing cleanup & perform the edge matching task pulling the adjacent drawings with reference to map inventory or GRID map prepared at the time of project initiation.
- Data will be exported into 4 different data sets such as Points, Poly-line, Polygons and Annotations
- Create the personal database & import 4 different data sets into GDB.
- All the attributes will be imported to respective feature classes with the help of in-built Arc tool 'Spatial Joining'.
- Quality checks will be carried as per the QC check list and Acceptance criteria provided / defined by Client.

TECHNOLOGY:

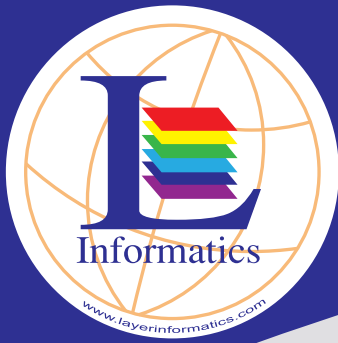
- AutoCAD Map 2004
- AutoCAD In-house customized tools.
- ArcGIS 9.2

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DATA MIGRATION

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TESTIMONIALS:

Thanks again for putting together such a very comprehensive package of what is required !

APPLICATION:

- The GIS based database of GAS Network systems shall be used in each city or municipality's GAS distribution department / system.
- The integrated GAS data model is a powerful tool for routine planning and emergency response.
- It gives emergency managers real time information for estimating the risks to public GAS supplies and population at risk.
- The GAS supply department can calculate, locate, and map the population at risk from the introduction of contaminants to the public GAS supply.

SCREEN SHOTS:



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