

Geometry Repositioning

Challenge:

The Geometry Reposition project is to primarily correct the existing Navigational and associated cartographic geometry of the county maps with an objective to improve the accuracy based upon the updated and more accurate and high resolution satellite imagery data currently available.

Solution:

The Geometry Reposition project was done using Autodesk Map with data stored in oracle Spatial. Production team accesses the files from the Oracle Spatial server for the boundaries as individual grids. The vector data is then overlaid over Hi-Resolution geo-referenced raster backdrop with high positional accuracy. This project involves addressing vector correction of road navigable geometry and in some cases associated cartographic features

The geometry corrections of the features are in terms of adding, deleting or repositioning the features. Finally, the vector data is written in to the oracle spatial server, ensuring data integrity in terms of duplicate features undershoots, overshoots, entities without object data.

Benefits:

- Spatial Data stored and updated in a centralized Oracle Spatial server.
- Multiple users can edit the spatial data from the centralized Oracle Spatial server.
- Versioning of the spatial data was maintained in Oracle Spatial server.
- Data integrity has been maintained using Locking concept, to manage concurrent access to data by two or more users. This ensures that users cannot destroy or corrupt other user's data.
- Solution supports Long Transaction Cartridge.

