

# Cartology GeoFix™

## Positional Accuracy Improvement

With the completion of Ordnance Survey's program of Positional Accuracy Improvement (PIA), addressing the positional accuracy issues in your own data will be of increasing importance for your organisation.

Using sophisticated transformation techniques, proven in independent research to be the best suited to PAI correction, Cartology GeoFix™ is the ideal tool for automating PAI transformations, thereby minimising the need for time consuming manual corrections.

### What is Cartology GeoFIX™?

Cartology GeoFix™ is a PAI transformation solution, designed to maximise the automated correction of your data. It combines a sophisticated mathematical transformation technique, with post transformation feature snapping, delivering 'before & after' views to the end user for subsequent QA. Cartology GeoFix™ also works on your own GI data without translating, making it an ideal tool, irrespective of your chosen GIS platform.



User data prior to transformation (dashed), and post transformation (solid)

### What makes Cartology GeoFIX™ different?

Unlike other PAI tools which use other rubber sheeting transformation methods, Cartology GeoFix™ uses a technique known as Natural Neighbour Interpolation. Using the link files supplied by Ordnance Survey, mathematical structures known as 'Voronoi diagrams' are automatically built based on points in the link files and real world features moved according to these structures. Transformations are therefore not dependant on arbitrarily selected parameters, thus providing a consistent data quality improvement technique, particularly suited to areas with irregularly distributed link points.

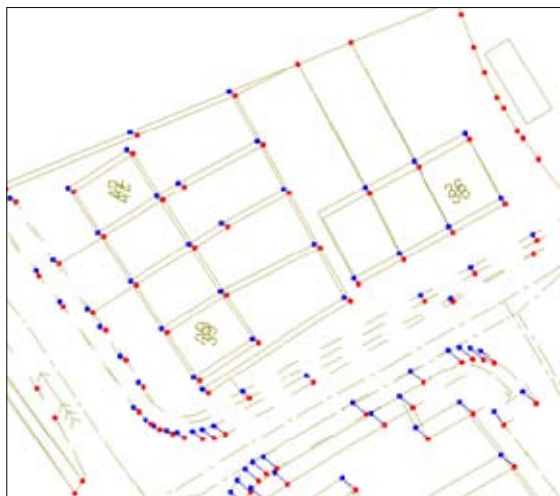
### Key Benefits

- Automate the majority of your PAI transformation
- Minimise the manual corrections required
- Before and after view comparisons
- Feature snapping options
- Post processing QA markup screen
- Use alongside your existing GIS



# Cartology GeoFix™

## Key Features



Transformations in OS base mapping

### Sophisticated transformation process

- Natural Neighbour Interpolation, based on Voronoi structures
- Better results than other rubber sheeting techniques
- No arbitrary parameter setting
- Ideally suited to areas with irregularly distributed link points
- Simple to configure

### Rule based snapping

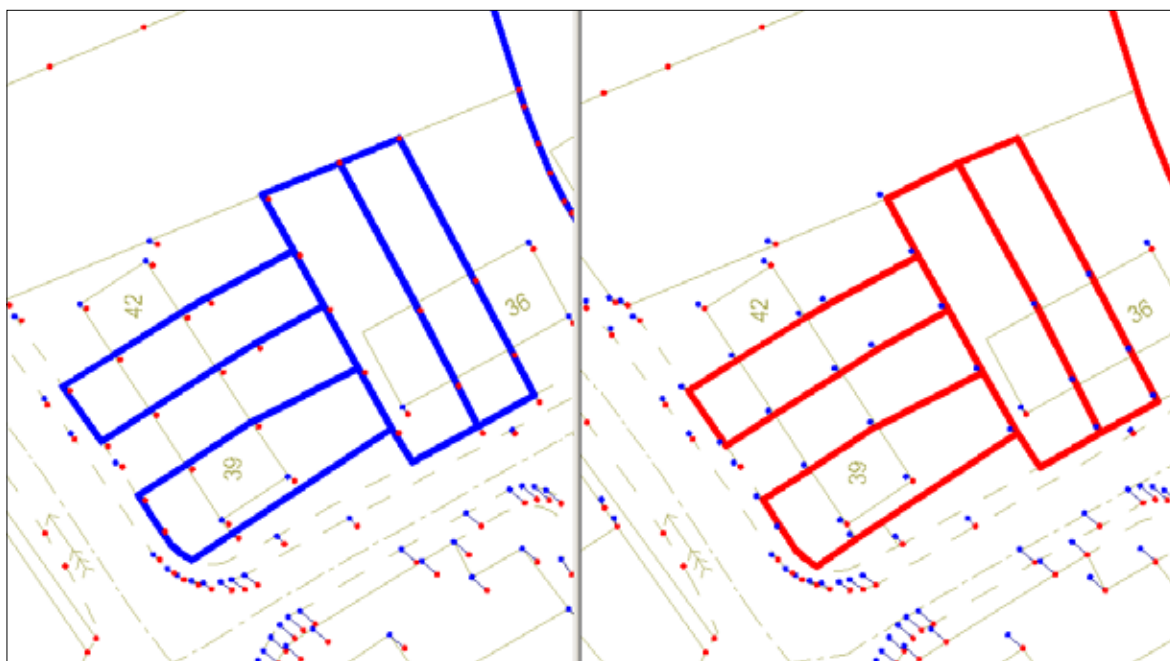
- Post transformation feature snapping
- Snap to user defined tolerances
- Snap to OS LandLine™ or OS MasterMap™ features

### Quality assurance

- Before and after views for result analysis
- QA markup facility to flag for manual correction
- Use existing GIS for manual corrections

### Format support

- Transform without translation
- Native support for common GIS and database formats



Split screen view of user data transformation and link files. Pre-PAI is represented in blue, post-PAI in red

