

# SPATIAL TAPESTRY



[www.SpatialTapestry.com](http://www.SpatialTapestry.com)

## Topo Snap – regain Vertical Topology any time

When digital cadastre and road centre lines are improved, users find that derived spatial data such as statistical zoning and administration areas become misaligned. Vertical Topology has been lost.

The result is a confusing mismatch that undermines user confidence:

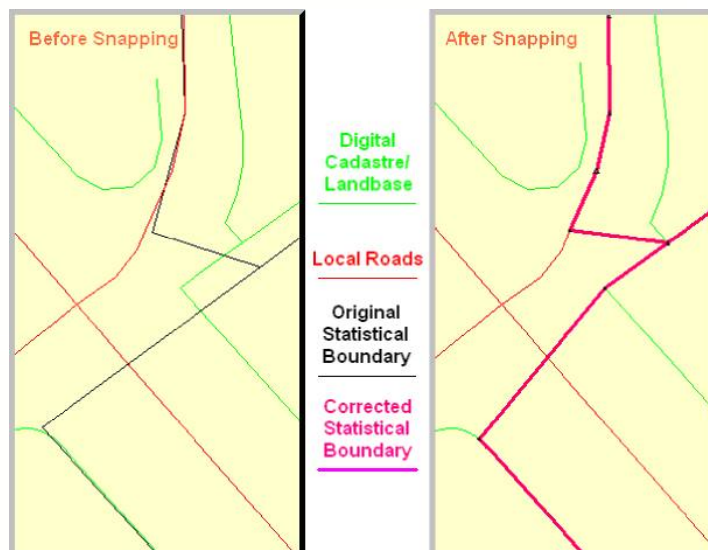
- Certain spatial selections return incorrect results
- Data cannot be as effectively shared with others
- Maps are unattractive

Repositioning the data themes to re-establish vertical topology has become one of the biggest and most expensive headaches for GIS managers and spatial data custodians. Manual rectification is cumbersome, labour intensive and error prone.

### Topo Manager – Topological Snapping Mode

Topo Snap is a set of functions in Topo Manager and is an automated solution for both large clean up projects and for locking in vertical topology at data capture time.

Topo Manager's sophisticated routines are able to realign a composite theme such as a statistical boundary that is derived from multiple primary themes of road, rail and water centrelines and digital cadastre.



### Government – Utilities – Transport – Spatial Custodians

*Topo Snap cleans and realigns topology across multiple themes with performance gains of up to 50 times over manual editing and checking.*

98% accuracy in achieving Vertical

Topology GIS platform independent

Powerful reporting and QA tools

Integrated with spatial adjustment solutions for field assets and annotation layers

Handles 100+ metre shifts over multiple themes and large variations in scale and detail



A user analyses parcels in a zoning category (**yellow**) but unintentionally selects parcels outside the zoning polygon, because its edge overhangs the extra parcels. The implications for accurate spatial analysis and decision making are clear.

# SOFTWARE FEATURES

## Multi-platform

Topo Manager works with file-based GIS systems (Shape and Tab) as well as those based on spatially enabled relational databases such as Microsoft SQL Server and Oracle Spatial.

## Flexible

- Handles polyline themes (road, rail and river) and polygon themes (administration, statistical and zoning layers)
- Over 20 spatial functions clean and snap topology with variable parameters and snapping tolerances
- Handles shifts of 100+ metres with support from SAM
- Processing sequences are designed interactively to suit the characteristics of different datasets
- Sequences can be edited and re-run as batch jobs to process different geographic areas

## Efficient

Topo Manager cleverly exploits the unused processing power of today's powerful desktop PCs by distributing topology processing to run on many clients. Its two-tier architecture minimises the impact on production servers.

## Integrated

Topo Manager can be integrated with the Spatial Adjustment Manager from Spatial Tapestry for repositioning of assets relative to themes that have moved. (e.g. a pipe that may have been placed at an offset of 3 metres from a front boundary). Users report that automated repositioning of their assets has saved them between \$50,000 and \$250,000 per annum.

## Robust

Rigorous testing with urban and rural datasets across the states and territories of Australia has achieved 98% accuracy in vertical topology.

## Supported & Enhanced

Spatial Tapestry software is used by some of Australia's largest utilities and local councils. Our software is installed in complex IT environments and at remote sites where there is limited technical expertise.

- Painless installation and operation
- On-site training and implementation available
- Prompt telephone and internet support
- Annual subscription provides support, patches and functional improvements

## Operating Systems

Windows XP and Windows 2000

## Geospatial

Microsoft SQL Server 2008  
ESRI  
FME  
Intergraph  
MapInfo  
MicroStation – via FME  
Oracle Locator and Spatial  
Postgres/PostGIS  
Smallworld – via FME

## Topo Test

Spatial Tapestry now supports "Vertical Topological Testing", allowing lines found in one theme and not others to be exported to Shape Files.

This may be run on the original themes or the snapped themes to help detect erroneous line-work still without vertical topology:

## USERS

Users of Spatial Tapestry adjustment solutions include:

- Bowen Council Qld
- Energex Qld
- Energy Australia NSW
- Integral Energy NSW
- Johnstone Council Qld
- NT Lands Department



## **Spatial Tapestry**

Unit 16/429 The Boulevarde,  
Kareela NSW 2232 Australia

Phone: (+61 2) 8323 8730

Fax: (+61 2) 8323 8731

[info@spatialtapestry.com](mailto:info@spatialtapestry.com)