

# SPATIAL TAPESTRY



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

## Topo Clean - regain Internal Topology any time

When polygon themes for zoning, administration or statistical purposes are collected or edited, many errors find their way into these vector themes. Edge boundaries become misaligned with gaps, overlaps, bowties and dangles. The theme's Internal 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

Cleaning these data themes to re-establish internal 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 Cleaning Mode

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

Topo Manager's sophisticated routines are able to realign a theme such as a Flora or Fauna boundary theme that is significantly independent of primary themes such as road, rail and water centrelines and digital cadastre.

### Government – Utilities – Transport – Spatial Custodians

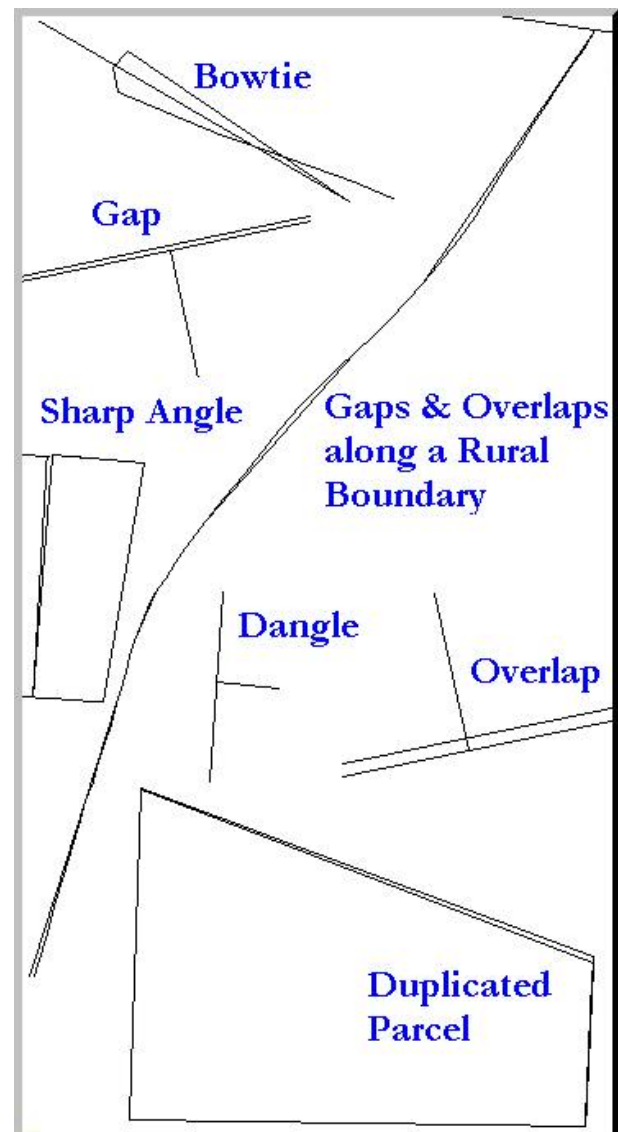
*Topo Clean cleans topology for a single theme with performance gains of up to 50 times over manual editing and checking.*

98% accuracy in achieving Internal Topology

GIS platform independent

Powerful reporting and QA tools

Can target unexpectedly large Gaps and Overlaps and unusually sharp angles with greater snapping tolerances



When Cadastres are maintained in a non-topological environment many errors creep in over time. The above diagram shows typical that Topo Clean addresses in a highly automated/accurate and easy to use processing environment.

# 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
- 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.

## Robust

Rigorous testing with urban and rural datasets across the states and territories of Australia has achieved 98% accuracy in achieving Internal 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 "Internal Topological Testing", allowing gaps, overlaps, duplicated parcels, and sharp angles 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 internal 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 Boulevard,  
Kareela NSW 2232 Australia

Phone: (+61 2) 8323 8730

Fax: (+61 2) 8323 8731

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