

CASE STUDY

CUSTOMER:
Victoria State
Government, Australia

SOLUTION:
Web Editing Solution

“Increasing the efficiency and accuracy of our mapping data is a core requirement. By trialling this map based editing system we are able to empower the data originators to make modifications to components of the State database that they know better than anyone – allowing us to focus on delivering an improved service to our customers. This approach results in higher quality & more accurate data, reduces resource requirements & increases efficiencies for all parties involved in the process”.

Bruce Thompson,
Director, Spatial Information
Infrastructure Department of
Sustainability and Environment (DSE)

New web application delivers increased efficiency & accuracy of mapping data by connecting data users to data custodians

Introduction:

eSpatial, in partnership with Geomatic Technologies (GT), one of Australia's leading providers of location-based business intelligence solutions, information products and services introduced an advanced web editing solution to the Department of Sustainability and Environment (DSE) in Victoria, Australia. The principle behind the system is very simple – allow data originators who are responsible for key record creation throughout the State to correct or update the authoritative mapping data directly. With strict quality control processes built into the application, updates can be incorporated into the State dataset in a fraction of the time taken by current practices.

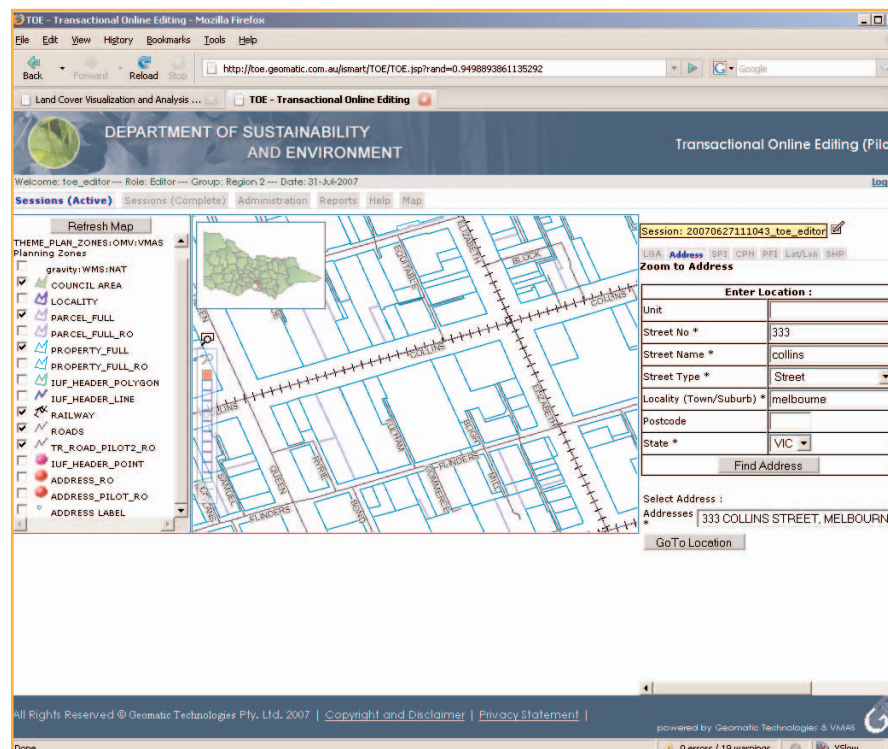
Background:

GT has recently delivered an Online Notification and Editing System 'ONE' to the DSE including services that provide spatial data editing capabilities (mark-up), user notification and application workflow management for the Victorian Mapping and Address Service (VMAS). The purpose of the ONE solution is to streamline the update of the Vicmap digital data via an online, simple to use, scalable application. In addition to providing a series of online redlining and attribute tools to report anomalies in the Vicmap framework datasets, ONE includes a workflow that communicates, tracks and notifies relevant parties throughout the life cycle of amendments.

eSpatial adds Web Editing Functionality

The TOE application (Transactional Online Editing) extends the existing ONE online notification system by adding a map editing component built using eSpatial's iSMART product. This allows end users to carry out controlled edits including name changes, split areas, create address points and move address points. Updates are carried out using a standard web browser over a secure internet connection and all changes to the system are controlled using an internal workflow which maintains proposed changes in parallel with agreed updates.

The resulting application is used to increase process efficiencies resulting in more accurate spatial data. The solution is delivered on top of Oracle 10g database and utilises Oracle Workspace Manager to support the data versioning requirements. The solution can be easily adapted to support businesses that are in need of an Internet based mapping solution with a simple workflow for communication, notification and updating.



ORACLE
SPATIAL

Geomatic Technologies

TRANSACTIONAL ONLINE EDITING

Key Benefits

- **Allows controlled editing of geospatial data directly by end user groups**
- **Connects end users to data custodians via roles based, configurable workflow**
- **Built on top of the industry standard Oracle 10 g platform, providing unparalleled enterprise capabilities including security, performance and scalability**
- **Version management using Oracle Workspace Manager**
- **Eliminates unnecessary paper shuffling within the data management process**

Why eSpatial and iSMART?

Based on Oracle® Technology Platform, iSMART is a niche software product for the development and deployment of web based geospatial applications.

iSMART extends the Oracle Technology Platform making it easier & even more cost effective to use by providing rich functionality including access control, analysis, editing, rapid development and central web based administration. iSMART addresses the need to deliver services online, either internally or to the public.

eSpatial has an established history of providing government focused geospatial solutions for its government and commercial clients. By combining the iSMART technology with open standards based IT capabilities, eSpatial clients have been able to deploy applications which increase service levels to their customers and deliver costs effective solutions to a wider (often non-GIS) audience.

ID	Session ID	Creator	Comments	Create Session	Date	Status	Edit	View	Detail	Accept / Decline
107	20070731105046_toe_editor	toe_editor	Add property footprint		31-Jul-2007 10:50:46	Accepted				
106	20070731105724_toe_editor	toe_editor	Address Editing		31-Jul-2007 10:57:24	Created				
105	20070730145310_toe_editor	toe_editor	M1 #PR notation test		30-Jul-2007 14:53:10	Accepted				
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99	20070726104952_toe_reviewer	toe_reviewer	M2 TEST CASE		26-Jul-2007 10:49:52	Accepted				
98	20070726104618_toe_reviewer	toe_reviewer	RAMP TEST II		26-Jul-2007 10:46:18	Accepted				
97	20070726104050_toe_editor	toe_editor	PTE test		26-Jul-2007 10:40:50	Accepted				
96	20070726102906_toe_editor	toe_editor	RAMP Test Case		26-Jul-2007 10:29:06	Accepted				
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83	20070718161036_toe_editor	toe_editor	Casey test		18-Jul-2007 00:00:00	Active				
82	20070718141626_toe_editor	toe_editor	M1 Edit Test III		18-Jul-2007 14:16:26	Active				
81	20070717122058_toe_editor	toe_editor	Nguyen test		17-Jul-2007 00:00:00	Active				
80	20070717122034_toe_editor	toe_editor	Terria training		17-Jul-2007 00:00:00	Active				

Pure Web Editing with iSMART

The new Web Editing technology is available as part of iSMART 5.3 – the latest version of eSpatial's iSMART software suite. iSMART supports a number of deployment models which including Pure Web and Customized Client within a scalable, role-based and secure environment. The architectural features delivered with iSMART address standard IT requirements for the deployment of enterprise business applications. iSMART provides an ideal enterprise grade hosted services delivery platform for geospatial applications. Delivered applications and services can also be provided to conform with the Open GeoSpatial Consortium (OGC) Web Services standards.

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