



The Client

The Department for Planning and Infrastructure is responsible for vehicle and driver licensing, maritime, safety and metropolitan transport services.

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| Project | Transport Executive and Licensing Information System (TRELIS) |
| Project Duration | Jan 2000 - Current |
| Outcome | Development complete and undergoing User Acceptance Testing |
| Key Points | <ul style="list-style-type: none">- Analysis- UML design- Internet technologies- J2EE development- Oracle Database |

The Need

The Department for Planning and Infrastructure is the result of several mergers and amalgamations, bringing the State's different transport providers together under the same banner. From an information services and technology viewpoint the amalgamations resulted in a disparate range of systems and platforms.

These ranged from Unix systems, Apple Macs to Windows based personal computers, to large transaction processing, mission critical systems running on distributed AS400 processors connected to a mainframe system running IBM products on the Police Service computing environment. There was limited connectivity across platforms and systems resulting in a large redundancy of information and poor integration.

In particular, there was limited client-centric information available and the business transactions that were processed were only loosely coupled to the revenue collected.

The major objectives of The Department for Planning and Infrastructure were to:

- Replace all the existing Registration and Licensing systems with a single, integrated information and revenue collection system.
- Design an integrated client-centric data model that satisfies the requirements of all divisions of The Department for Planning and Infrastructure.
- Enhance the efficiency of The Department for Planning and Infrastructure's revenue collection processes.

The Solution

The TRELIS project was established to meet The Department for Planning and Infrastructure's objectives with Australian Defence Industries (ADI) as the prime contractor. Based on its revenue collection expertise, Ross Logic was sub-contracted by ADI to develop the revenue collection components of TRELIS.

A client-centric revenue collection sub-system was designed using UML and the Rational suite of tools. The revenue collection sub-system is fully integrated with the TRELIS application 3-tier architecture designed by ADI, and is being developed using J2EE, Java and an Oracle database. TRELIS can be deployed as a stand-alone application or, for selected components, accessed via a web interface.

The screenshot shows the TRELIS Client application window. The title bar reads 'TRELIS Client'. The menu bar includes 'File', 'Client', 'Licence', 'Vehicle', 'Plate', 'Financial', 'Assessments', 'Fitness to Hold', 'System', and 'Help'. The main window displays a client record for 'ADDPERSON, TEST' with the following details:

- Client Information:** EAST PDE, EAST PERTH WA 6004; 19/12/1989; Demerit Points: N/A; Net Adj: N/A
- Person Details (F5 - Person):**
 - 1 - Details: Surname: ADDPERSON, First Name: TEST, Other Names: (empty), Date of Birth: 19/12/1989, Organ Donor: (dropdown)
 - 2 - Aliases: (empty)
 - 3 - Address History: (empty)
 - 4 - Account: (empty)
 - 5 - Contact History: (empty)
 - 6 - Fitness to Hold: (empty)
- Client Addresses:**
 - Residential: Address: EAST PDE, Suburb: EAST PERTH, Postcode: 6004, State: WA. Includes 'Apply to All Dealings' checkbox.
 - Postal: Overseas: (checkbox), Delete Address: (checkbox), Address: (empty), Suburb: (empty), Postcode: (empty), State: WA.
- Personal Details:** Gender: M, Hair Colour: (dropdown), Height (cm): (empty), Eye Colour: (dropdown), Country of Origin: (dropdown), Build: (dropdown).
- Other:** Status: Active
- Concessions:** Table with columns 'Type' and 'Applied To'.
- Proof of Identity:** POI Provided: (checkbox), POI Type: No POI Provided

At the bottom of the window, there is a status bar showing 'Ready', 'Operator: jodwyer', 'Role: Many Roles(...)', 'Processing for: MDH 15/01/2007', and '15 January 2007 10:59'.

The revenue collection components of TRELIS are integral to the business transactions that process client dealings with The Department for Planning and Infrastructure. These include: driver's license renewals; motor vehicle registration and renewals; penalties; and a range of other transactions. Other revenue collection components have been designed to ensure stringent control of the revenue received; manage client accounts; distribute portions of the revenue collected to other bodies such as the Insurance Commission of WA (ICWA); interface with The Department for Planning and Infrastructure's General Ledger system; and to provide financial reporting facilities.

Payments into TRELIS can be received online from The Department for Planning and Infrastructure licensing centres, agents such as Shires, a network of motor vehicle dealers, managers of vehicle fleets, the The Department for Planning and Infrastructure Contact Centre, the Internet and IVR. Batch payments are also received from Australia Post and other receiving agents. Payment methods include cash, cheque, credit card, EFTPOS and direct debit with the design being expandable to include other methods of payment.

The Result

The system has been successfully implemented throughout WA and additional enhancements to the system are currently underway.