

## The Challenge

The customer had four years to deliver this high-tech highway, using SAP for the back-end of their high-speed, free-flowing, multi-lane toll road's electronic toll-collection system.

The 1,800 business requirements for the project included:

- ★ Toll charges not manually collected. Drivers keep a wireless device on their windshield to electronically signal – at highway speed – that tolls should be deducted automatically from an online account.
- ★ Toll charges vary based on type of vehicle and distance travelled. The solution needed to detect and classify vehicles using the highway – either by customer "tag" and / or taking images of the vehicle's LPN passing through the gantries.
- ★ Integrated systems with web-based account management, billing, collections, enforcement, and customer relations provided by third-party vendors

## The Solution

Over the course of three years, the Tescom team of consultants teamed with the third-party software vendors to help the customer create a comprehensive testing strategy and implement an ongoing test methodology to support their system changes and updates.

- ★ Tescom helped with the SAP integration with the third-party systems for customer management and online billing and collections.
- ★ Detailed review of requirements documentation, recommendations and improvements of development plans
- ★ Functional Acceptance Tests using Mercury Quality Centre and the Toll Operating System, as well as Interface Test Cases for the CSS system
- ★ Load and Volume Testing using Automation for the SAP CRM interface, Test Automation scripts
- ★ System design tests, including re-usable test cases for future use

## The Result

From test automation and back office support to road testing the toll collection systems, Tescom was a key player on the team that allowed the project to be delivered 5 months ahead of schedule.

Our review of the customer's project documentation during the earliest phases of the SDLC allowed Tescom to make project recommendations that increased systems interoperability and facilitated ongoing testing projects.

- ★ 100% Automation of Regression Tests
- ★ 50% Automation of Test Cases
- ★ Automated Test Management, Defect Management, Requirements Management, and Test Cases Management
- ★ Full conformance between the system requirement, software design

## The Customer

The customer is a single-purpose entity dedicated to the successful delivery of the longest toll road in Australia. It is responsible for the financing, design, construction, maintenance and operation of the landmark project.

The customer began working with Tescom in 2005 for a three-year project for their automated tolling system, web-based billing and SAP interfaces

This project is also regarded as the biggest and most successful transportation project in Australia, delivered 5 months ahead of schedule.