

# Petrol Station Management System (PSMS) architecture audit

Client Global technology supplier for banking and retail  
Role Solution Architecture / Architecture audit  
Period 2012-04 — 2015-10

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## CONTEXT

The platform was operational in the field, but its architectural knowledge was neither current nor standardized. The gap slowed incident resolution, made integrations fragile, and put compliance with local and European documentation expectations at risk.

## APPROACH

Treated documentation as a control mechanism, not a compliance artifact. Audited the existing architecture to make implicit decisions explicit — decomposition, data flows, integration contracts, operational characteristics — and structured the record to serve both engineering change-planning and organizational standards alignment.

## OUTCOME

Delivered an independent architecture audit and a complete, standards-aligned documentation set for a global technology supplier's already-running fuel-retail management platform, reducing the support and change risk that came from undocumented dependencies.

- Independent architecture audit surfaced risks and improvement opportunities in the core platform.
- Complete, standards-aligned documentation set established the platform's current state of record.
- Easier support, safer integration, and lower risk from undocumented dependencies.

## KEY RESULT

Delivered an independent architecture audit and a complete, standards-aligned documentation set for a live fuel-retail management platform, converting undocumented dependencies into an explicit, defensible record for safe evolution.