

Fuel Station Management System (FSMS) replacement

Client Gas station retail network
Role Solution Architect
Period 2015-01 — 2019-12

CONTEXT

The legacy setup limited efficiency and made integration with accounting, loyalty, payments, and reporting harder than it should be, while operationally relevant historical data had to be carried forward. In fuel retail, disruption translates directly into lost revenue, so the migration approach mattered as much as the target state.

APPROACH

Defined stable station-management capabilities and explicit integration contracts first, then sequenced migration as a business-continuity plan rather than a switchover. Chose a phased path over a big-bang cutover to contain outage risk, and treated data migration as an integrity problem — definitions, mappings, validation — not a file transfer.

OUTCOME

Replaced the operational backbone of a gas station retail network with a modern fuel-station management platform, completing the required integrations and data migration while preserving business continuity throughout.

- Modern platform in production across the network, with comprehensive internal and external integrations.
- Historical and current data migrated with integrity, preserving operational continuity.
- Greater transparency and manageability of station operations; reduced manual effort from fragmented tooling.

KEY RESULT

Architected and sequenced a fuel-station management platform replacement for a gas station retail network, delivering full integration and a continuity-first migration that preserved revenue-generating operations throughout.