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# Data Migration From Legacy POS To Acuity Logic

This case study describes how a large eyecare organization successfully migrated data from multiple legacy Point-of-Sale (POS) systems to Acuity Logic across a distributed practice network. The migration covered 500+ eyecare practices, consolidated data from 15+ legacy POS platforms, and achieved zero data loss while ensuring business continuity and reporting accuracy.

# Key Questions Answered

**1** How was data migrated from many legacy POS systems into a single modern platform?

**2** How was data integrity maintained at scale?

**3** How was operational disruption avoided during migration?

## Evaluation Criteria

- Data Completeness And Reconciliation Accuracy
- Migration Success Across All Practices And Systems
- Downtime And Post-Go-Live Stability

## Sources Used

- Legacy POS Databases And Flat Files
- Acuity Logic Data Models And Specifications
- Reconciliation And Audit Reports

# Context And Background

The organization operated 500+ eyecare practices using 15+ different legacy POS systems. These systems varied widely in structure and data quality.

The problem was the need to standardize on Acuity Logic without losing historical patient, transaction, or insurance data. Previous manual or partial migrations did not scale and introduced data issues.

Constraints included minimal downtime, large historical datasets, and strict financial accuracy requirements.

Stakeholders included operations leaders, practice managers, IT, and data engineering teams.

## Scope And Approach

In scope were patients, prescriptions, insurances, appointments and master data migration with practice-by-practice cutover.

Inputs included legacy databases, Acuity Logic templates, and historical reports.

Validation involved automated reconciliation, parallel-run comparisons, and business sign-offs.

## Findings And Insights

Data analysis revealed inconsistent identifiers, duplicate records, and varying data standards across POS systems.

Root causes included lack of centralized data governance and years of local customizations.

**Key insight:** a scalable, repeatable migration framework was essential.

## Solution

A phased, rule-driven migration framework was recommended.

Implemented components included POS-specific mappings, centralized transformation logic, and automated reconciliation ensuring zero data loss.

# Delivery

**Delivery followed a phased timeline:** framework design, pilot migrations, regional rollout, and stabilization.

Roles included data engineers, QA teams, and business stakeholders.

Dependencies included coordination with client teams and practice scheduling.

# Results

500+ Practices Migrated Successfully From 15+ Legacy POS Systems.

Zero Data Loss Confirmed Through Reconciliation.

Over 99.8% Data Accuracy Achieved.

Unified Reporting And Faster Onboarding Were Key Qualitative Outcomes.

# Reflection

✅ **What worked:** reusable framework, phased validation.

✅ **What didn't:** underestimating POS variability.

✅ **What's reusable:** Tooling, validation rules, rollout playbooks.

✅ **Limits:** legacy data quality constrained some historical analysis.

# Takeaway

Migrating 500+ eyecare practices from 15+ legacy POS systems with zero data loss required strong validation and phased execution. The result was a reliable, scalable data foundation enabling consistent operations and future growth.