

Leumit Health Services Accelerates by 3 times Mission-Critical IBM i Modernization with ARCAD

Leumit Health Services is one of Israel's four nationwide, non-profit HMOs. It combines the responsibility of delivering accessible, high-quality healthcare services with the agility to innovate and implement change quickly.

As part of its long-term technology strategy, Leumit used ARCAD solutions and services to modernize mission-critical systems in a controlled and sustainable manner, while protecting service continuity, reliability and organizational knowledge.

The Organization

As a nationwide HMO, Leumit is responsible for both organizing healthcare coverage and providing a broad range of healthcare services to its members. Its technology environment supports critical medical, service and operational processes. This makes reliability, availability, information integrity and continuity essential considerations in every modernization initiative.

The challenge

Leumit's mission-critical IBM i systems contain extensive business knowledge developed over many years. Modernizing these systems therefore required more than a technical conversion. The modernization program needed to preserve proven business logic, minimize operational risk, support continuity of healthcare services and create a stronger foundation for future development.

A key part of the modernization program involved expanding the item code field, a change that had to be propagated throughout the entire application and database.

Manual transformation at scale could increase effort, prolong delivery and introduce inconsistencies. Leumit sought a structured, automated approach that would improve control, repeatability and transparency, while enabling its internal teams to retain ownership of the modernization process.

The Approach

ARCAD's consulting team began with a proof-of-concept and a pilot phase to validate the approach before full-scale execution. This included attention to a detail often overlooked in field-expansion projects: correctly handling Hebrew, one of only two major world languages written right-to-left. The team validated this early, before the main project began.

After the pilot, the team moved to repository preparation. Of a repository containing tens of thousands of source objects, ARCAD and

Leumit worked together to define and clean a working scope of approximately 14,000 program sources. This code spanned a mix of RPG variants - both fixed-format RPG IV and free-format RPG - reflecting years of work by different teams.

Automation

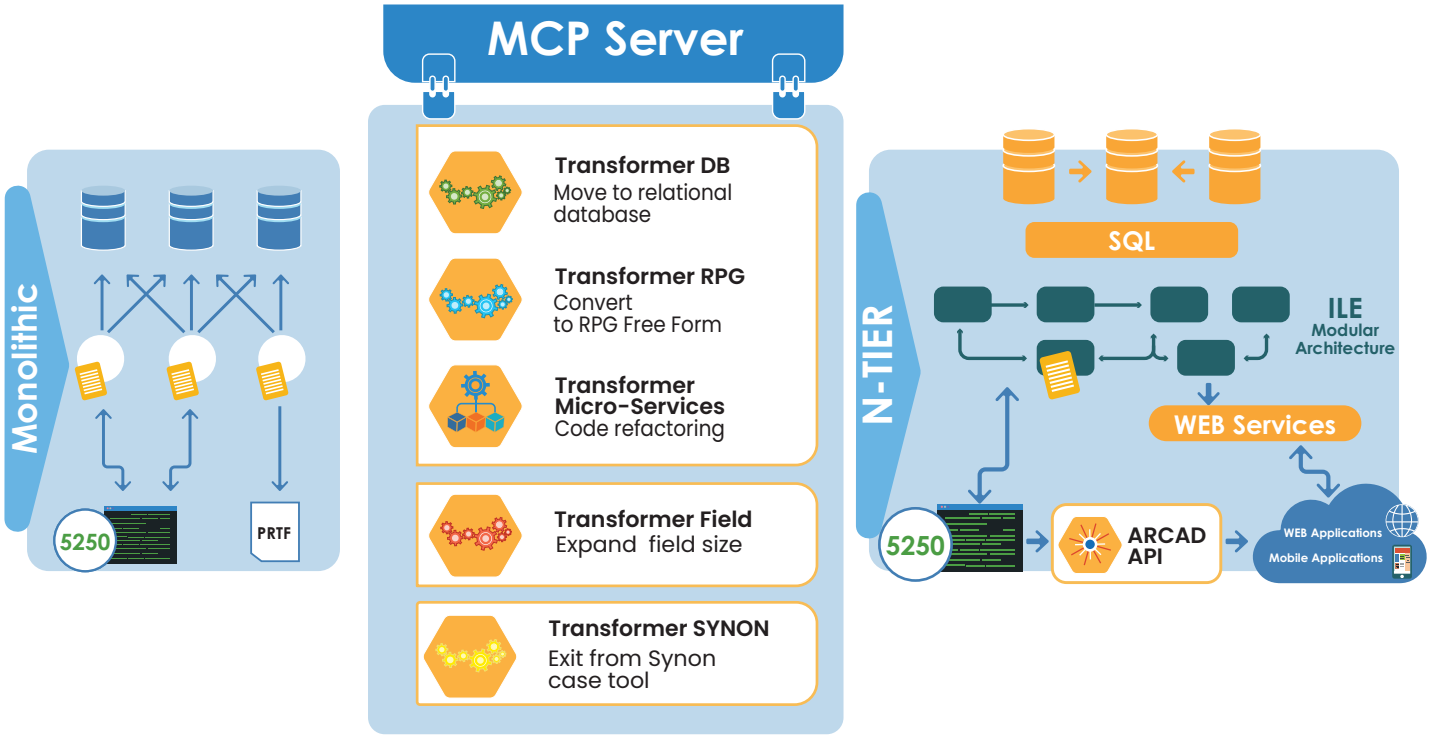
Leumit led the transformation program, supported by ARCAD's technology and expertise. The selected approach combined automation with professional review and organizational knowledge, enabling the teams to modernize critical components while maintaining control over quality, risk and business continuity.

ARCAD Transformer Field automated the transformation process and reduced repetitive manual work, completing the project 3 times faster. This allowed Leumit's professionals to focus their expertise on validation, architecture, business logic and the safe integration of the modernized components into the wider technology environment.

Why It Matters

The Leumit project was exemplary - in the level of automation applied, the collaboration between teams, and effective project management under high pressure. An outstanding achievement, tens of thousands of sources analyzed, thousands transformed, a multi-team, multi-language application modernized under real-world time pressure. It also shows what field expansion work on IBM i really involves: not a "one shot" automation task, but an iterative process. With ARCAD Transformer Field, the deep, byte-level understanding of propagation, combined with the customer's own application knowledge, produced a result that was accurate, timely, and fully compliant with Leumit's rigorous standards.

For Leumit, modernization is not an end in itself. It is a strategic enabler for organizational resilience, faster delivery and better healthcare services. By combining automation, internal expertise and disciplined governance, Leumit is creating a sustainable path from mission-critical legacy technology to a modern environment that can support future innovation.



ARCAD Transformer: Full-stack modernization of IBM i applications – incremental approach

Business and Technology Value

- IBM i Modernization project achieved 3 times faster
- Greater control over the modernization of mission-critical systems.
- Reduced reliance on repetitive manual transformation activities.
- Consistent and repeatable modernization process.
- Preserved business knowledge embedded in existing systems.
- Lower operational risk through controlled transformation and validation.
- A stronger foundation for faster development and future digital healthcare initiatives.
- Continued focus on reliability and service continuity for Leumit members and employees.

Executive Perspective

"Leumit's strength lies in combining the scale and responsibility of a nationwide HMO with the agility to adopt new technologies quickly. With ARCAD, we are modernizing our core systems in a controlled and sustainable way, enabling our teams to innovate faster while maintaining the reliability and continuity that healthcare services demand."

Rakefet Jacoby, CIO, Leumit Health Services

Leumit Health Services uses ARCAD Transformer Field to automate their IBM i "field expansion" project.

14,000 program sources scoped

2,500 sources automatically modified

End-to-end DevOps process

One overnight cutover, zero rollback



"The ARCAD metadata repository is amazing. It showed us all the connections between sources lines, and fields. We knew exactly what was impacted by each code change we made".

"ARCAD consultants were ready to help at each step. Everything we asked for, every time we needed them, at any time, they were available. We highly appreciate their work".

"Even after the project, thanks to the cleanup work performed with the ARCAD tools, our code base is now much leaner, and easier to manage".

Aviv Rosenwasser, Head of IBM i Development, Leumit Health Services