



Success Story

WGKK

**Increased Performance and
Simplified Platform Migration
with AMELIO Modernization Platform**

„AMELIO allowed us to build a modernization factory that reduced the effort needed for the SQL migration project in our core UNISYS OS2200 application by 70%.“

DIETER ZINK, IT DIRECTOR

WIENER GEBIETSKRANKENKASSE, AUSTRIA

Wiener Gebietskrankenkasse (WGKK – Vienna health insurance) ensures - together with its contractual partners - an efficient and profound medical care for its 1.124.000 insurants and their 400.000 non-contributory relatives. It is a public corporation and organized as self-government - just like the other Austrian social insurances. This form of organization guarantees to be as close as possible to the insurants and independent from state.

The WGKK continuously extends its services to conform to the social and rapid medical developments.

BETTER PERFORMANCE AND PORTABILITY OF APPLICATIONS

With the help of AMELIO Modernization Platform from Delta Software Technology, the WGKK replaced all database accesses previously using an Assembler call interface with Embedded SQL (ESQL). By this modernization WGKK could increase the performance of the application package "Leistungen" for insurance payments and services significantly. At the same time the modernized applications became portable and thus were prepared for a platform migration.

OLD DATABASE ACCESS USING ASSEMBLER: COMPLEX AND SLOW

The application package "Leistungen" comprises 1.500 programs processing the insurance's payments as part of the UNISYS OS 2200 based core applications of WGKK. The UNISYS UCOB programs working reliably for decades on UNISYS OS 2200 used an old and meanwhile too slow control for the accesses to the RDMS database.

An Assembler interface layer created the SQL commands for the database accesses from transferred parameters. The accesses to the database and calls of the corresponding Assembler routines were not standardized. The complex logic for the determination of the parameters and the control was distributed in the programs, and even spread across several programs.

THE PROJECT: EMBEDDED SQL FOR FASTER ACCESSES TO RDMS

To meet the current requirements, the performance of these central applications had to be increased significantly. Just like other large enterprises WGKK had to make a decision:

Improving the performance by

- a) getting a new mainframe system or
- b) modernizing the applications.

WGKK decided for the automated modernization with AMELIO Modernization Platform from Delta Software Technology, because two goals could be achieved at one go:

1. Faster applications by modernizing the data accesses.
2. Platform independency to simplify the migration to more cost-effective platforms later on.

AMELIO MODERNIZATION PLATFORM: THE PERFECT WAY TO BETTER SOFTWARE

A specialized production line was configured with AMELIO Modernization Platform. Its tasks:

- Analysis of the DB schemas and all program parts being relevant for the accesses.
- The Assembler calls for the RDMS accesses, scattered in the programs, were replaced by standardized Embedded SQL.
- The applications were made platform independent.
Portable code was generated that could be used for the existing UNISYS OS 2200 environment with UCOB and RDMS as well as for the intended new platform IBM AIX with Micro Focus COBOL and Oracle database.
- All analysis facts and results were stored in XML format, so they are available for arbitrary analyses and processing.

The migration has been realized with AMELIO Modernization Platform within 6 months. The performance of the modernized applications was increased in such a way that a new mainframe was dispensable.

The migrated programs now fulfil apart from WGKK's request for the amelioration of throughput speed also the demand for portability. Data is now accessed by easier maintainable standard Embedded SQL and programs run on UNISYS OS 2200 UCOB with RDMS as well as on IBM AIX with Micro Focus COBOL and Oracle database..

"AMELIO allowed us to build a modernization factory that reduced the effort needed for a critical SQL migration project in our core UNISYS OS 2200 applications by 70%. Our trust in AMELIO was also repeatedly confirmed in other transformation projects, including Y2K and an ACOB/UCOB COBOL compiler migration project"

**Dieter Zink, IT Director
Wiener Gebietskrankenkasse, Austria**

AMELIO MODERNIZATION PLATFORM

AMELIO Modernization Platform from Delta Software Technology is a safe, easy to manage and economic tool that implements the modernisation and transformation of applications 100% automatically.

AMELIO Modernization Platform

- analyses and changes the applications using a fully automated, rule-based process that is exactly tailored to the particular requirements,
- slashes testing efforts,
- implements changes without blocking other projects or the ongoing maintenance,
- guarantees the stability and integrity of the applications at any time,
- documents all changes according to audit rules,
- leaves free choice between stepwise implementation and "big bang".

APPLICATION AREAS FOR AMELIO MODERNIZATION PLATFORM:

- **Mass changes:**
Changing data formats, customer, account or insurance numbers, euro, swift, UTF-16 (Unicode) for EU harmonisation, ...
- **Application modernisation:**
platform change, framework adaptation / replacement, ...
- **Architecture transformation:**
service enablement, modularisation, platform neutralisation
- **Language transformations** (4GL, Delphi, C++ etc)
- **Quality assurance**

Users confirm: This is the way for large transformation projects to be completed in less time, with utmost reliability, with less resources and with the highest quality – by full automation.

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