

# z/OS & z/VSE Mainframe Migrations



## About Anubex Mainframe Migrations

For many years the IBM Mainframe has represented one of the most powerful and stable platforms on which to run the large scale data processing applications used within the global banking, insurance, telecoms, aviation and logistics industries, as well as government services including health, tax, police records and so on. However, the improved stability and scalability offered by today's server and PC technology now represents a viable and more cost effective alternative to the mainframe for many organisations. Anubex' automated IBM migration solution provides an opportunity to take advantage of these new possibilities.

## Product Highlights

Anubex' z/OS and z/VSE mainframe migrations is a versatile solution providing possibilities to replace the entire mainframe platform, together with all the core applications that reside on it, hereby effectively eliminating any dependency on costly mainframe technologies.

This is just one of many possible mainframe migration and modernization paths. Other migration scenarios may be where the mainframe platform is retained, but certain key mainframe technologies are replaced with more modern and flexible variants. Here too Anubex provides solutions for mainframe technology replacement.

### **Native Technologies / No Emulation**

Anubex' core mission is to allow its customers to release their valuable and reliable business applications from their dependency on non-strategic, legacy technologies.

Therefore, we ensure that migrated applications actually use technologies that are widely recognized and accepted as native on the chosen target platform instead of choosing to emulate the source platform technologies on another platform.

Whenever the functional equivalence promise forces the introduction of components into the migrated application that could be perceived as non-native on the target platform, we offer a clear modernization path whereby our customers can eliminate these components for good.

## Target Technologies

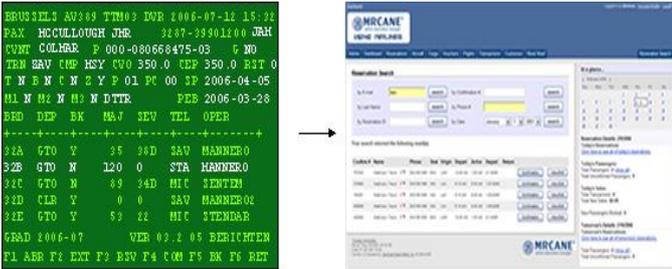
Anubex is always looking to implement new alternatives, both on request by our customers or because we feel they make sense from an understanding of the general software industry.

Following is an overview of the most prominent technology mappings that form part of Anubex' mainframe migrations:

Before Migration	After Migration
DB2	Oracle
VSAM/ISAM	DB2
IDMS/DB	SQL Server
IMS/DB	Open Source DB
Adabas	Open Source DB
IDMS/DC	CICS
CICS	Application/web server
OLM Maps	3270
CICS/BMS	Java Swing
Natural Maps	.NET WPF
COBOL	Any COBOL dialect
Natural	Java
	C#
ADS/O, ADS/A	COBOL
Assembler	COBOL or C#
JCL	Perl
CLIST	PowerShell
REXX	Bash
z/OS	z/OS (keep the platform)
	Linux
	Windows
	UNIX

## User Interface Modernization

Anubex' Waxwing technology enables converting many legacy character-based user interfaces, including CICS BMS, Natural and IDMS OLM maps, into modern, open Java or .NET based front-ends that can be maintained using standard development tools like Eclipse and Visual Studio.



When choosing this option, after migration developers can enhance converted screens with graphical components such as drop-down fields, checkboxes and data lists.

When the choice is made to keep using 3270 terminal emulator clients, Waxwing provides a modern, WYSISYG development environment based on either Eclipse or Visual Studio. In this more limited scenario, COBOL modules are generated to translate map data into proper 3270 streams at runtime.

More details on Anubex UI modernization can be found in the Waxwing Product Sheet.

## Automated Testing

No migration project can succeed without the confidence that the migrated system is ready for production and this confidence can only be built by testing the migrated system extensively and repeatedly.

TestMatch™ is the product that Anubex has built to reduce the time and effort needed to complete this crucial testing phase:

- ❖ TestMatch avoids the requirement to manually create test scenarios for the complete application;
- ❖ TestMatch limits the application end-user involvement in the project to acceptance testing.



More details about TestMatch can be found in the TestMatch Product Sheet.

## References

Anubex has a 100% success rate, having completed numerous migration and modernization projects around the globe on both IBM mainframe and LUW target platforms.

Each of these projects has been delivered on time, within budget and to the complete satisfaction of the customer.

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