

CodeTurn for EGL to Java Transformations



About Anubex CodeTurn EGL to Java transformations

Many applications that were developed in EGL are still mission-critical and continue to deliver significant benefits to the organizations that use and rely upon them. Nevertheless, many organizations are faced with issues of Total Cost of Ownership (TCO), skills shortage, or end of support. Anubex' service provides an opportunity to liberate these valuable and reliable business systems from their dependency on legacy technology, and transforms them to a modern technology stack.

Service highlights

Anubex will take any application developed in EGL and automatically transform it to a functionally identical one, now ready to run on any platform supporting the JVM.

Since both the transformation and the testing is fully automated, the outcome of the project is fully predictable, in terms of risks, costs, and duration!

Three Strong Promises

All Anubex transformations ensure three types of equivalence:

- ❖ **Functional equivalence:** the converted application's behavior is identical to that of the original one;
- ❖ **Performance equivalence:** the converted application will perform at least as well as the original one (of course, assuming adequate infrastructure); and
- ❖ **Maintenance equivalence:** maintenance of the converted application will be - after proper training provided by Anubex - comparable in effort to the original application.

Why transform your EGL to Java?

There are many good reasons to make the move from EGL to Java. These are typically the major concerns for businesses:

- ❖ High (and rising) maintenance and runtime fees for the EGL / Mainframe products;
- ❖ Shrinking availability of EGL developers and lack of interest in EGL from young developers;
- ❖ EGL is no longer officially supported by IBM. Other commercial support options are limited.

Java offers answers to all these concerns:

- ❖ Support fees are negligible or even non-existing;
- ❖ It is one of the most widely-used programming languages today and actively being developed;
- ❖ Its interoperability and portability are unsurpassed when compared to other technologies;
- ❖ Java is easily maintainable.

Next to that, moving to Java also means:

- ❖ Enabling the use of a state-of-the-art IDE, with extensive debugging, refactoring, profiling and (unit)testing support.
- ❖ Enabling the use of thousands of third-party libraries, covering almost all imaginable computing needs.

EGL to Java transformation

Anubex delivers end-to-end EGL migration solutions, in collaboration with selected partners, including support for:

- ❖ Mainframe EGL with TextUI/3270 User Interface;
- ❖ WebSphere-based EGL with web-based User Interface;
- ❖ Mixed Mainframe/WebSphere environments;
- ❖ Mainframe EGL environments combined with native COBOL or other languages;
- ❖ Migration of the batch environment (JCL) to Bash;
- ❖ Data migration, e.g. VSAM to relational;
- ❖ Automated testing of the migrated application with Anubex' TestMatch tool;
- ❖ Solutions for integration topics such as printing, security...;
- ❖ After go-live, the source environment (Mainframe and/or Websphere) can be decommissioned.

Phases of EGL transformation

Conversion of EGL happens in two stages:

- ❖ All EGL User Interface technologies (3270, JSP, JSF) are converted to JavaScript. JSP and JSF are “split” into a JavaScript front-end component and one or more Service back-end components that may be invoked from the JavaScript.
- ❖ All EGL programming logic (Programs, Services, Libraries...) are converted to native Java with Anubex' DataTurn tool.

All involved conversions are fully automated, guaranteeing code quality, avoiding risks, and offering full predictability by 100% automation. Certain aspects of JSP/JSF conversion may require manual adaptations. This work is inventoried during the pre-migration assessment, and any related cost will be included in the final project offer.

Automated conversions and manual adaptations can seamlessly integrate thanks to advanced API design and an automated workflow.

References

Anubex has a 100% success rate, having completed numerous conversion and modernization projects around the globe.

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

More information

More information can be found on www.anubex.com or you can contact us at migrations@anubex.com with your questions