

EQELA TRANSCEND

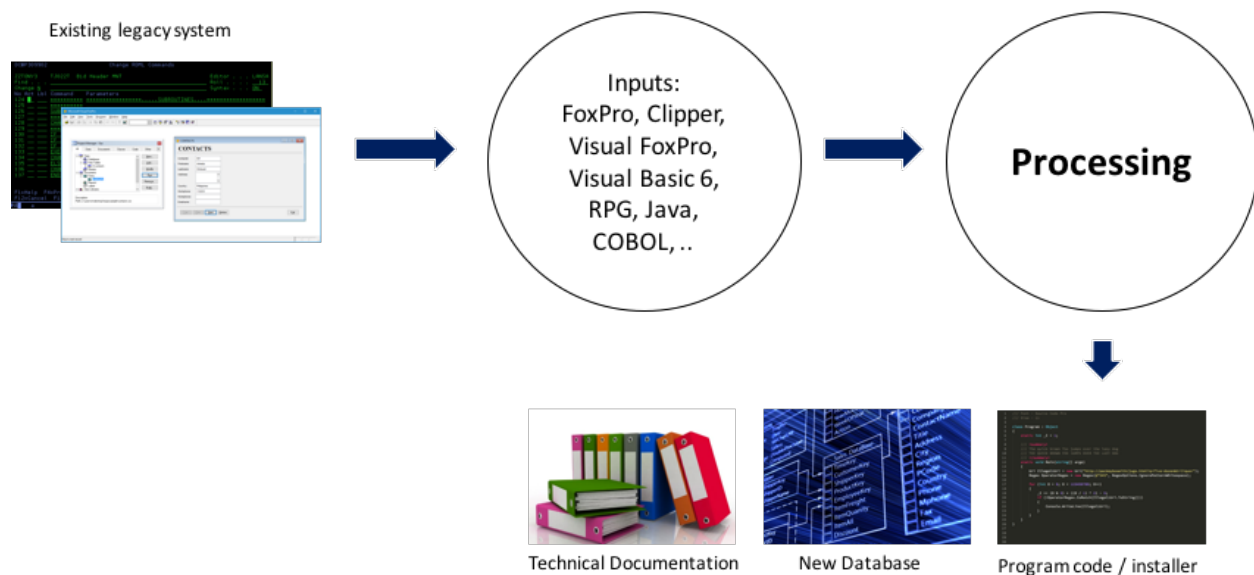


Software transformation, cloud migration and cybersecurity: Modernization of systems and applications to new technology platforms, to cloud and to mobile

Egela Transcend is an **automation-enabled software development service** designed for companies and organizations, enabling the development, transformation and/or migration of information systems and software applications from current or obsolete technology platforms to new platforms and/or to the cloud or to run on mobile devices. The Transcend service is delivered using the *Egela SAMTM* automation technology solution, developed particularly for this purpose: *Egela SAMTM* enables automated transformation of software programs on source code level, significantly enhancing the speed and quality of development and dramatically lowering the associated risks using advanced automation and artificial intelligence.

AUTOMATION-ASSISTED MODERNIZATION DELIVERS RESULTS QUICKLY AND RELIABLY

The Egela Transcend automation approach is able to divide the original source code to different logical components, each of which can be processed in various different ways either in isolation or in combination with others, producing the desired results. See illustration below:



Due to the automation approach, development times of system redevelopment projects can be dramatically reduced from a typical timescale of 6-18 months to a scale of 1-2 months.

As the ultimate outcome of the *Egela Transcend* service, the general architecture, information security approach and overall cybersecurity standing can also be modernized. The actual process of development or transformation of the source code can either be done fully on cloud servers or servers physically controlled by the customer, or using a combination of the two. The service continues by a combination of ongoing code maintenance, continuous integration, and devops-type services in cooperation with the existing IT team of the customer, as applicable, or through the deployment of additional fully automated solutions.

Many types of solutions can be modernized: Depending on the type of application or system, the approach and method of modernization may vary. See below for the common types:

DESKTOP APPLICATION MODERNIZATION

Transformation of an existing desktop application to target a new operating system

Many existing information systems have been built on technology platforms that can no longer be updated, where continued development is currently either very difficult or impossible. Common examples of this are, for example, Visual Basic 6, FoxPro, Visual FoxPro as well as older versions of the .NET platform, including for example applications based on WinForms technologies. Through the Eqela Transcend service, applications like this can be transformed to C# programs and can execute, for example, on Windows 10 operating systems as universal (UWP) applications.

WEB APPLICATION MODERNIZATION

Information security, enhanced performance, architectural improvements and better code

Continuing maintenance and updating of web based systems is very important for ensuring information security alone, but also in order to improve performance and the quality of the code produced in ongoing development and addition of new features. Eqela Transcend makes it possible to modernize web applications built in many different programming languages and development frameworks, targeting the latest platforms, for example C# and the .NET platform. A modernized version of the system can be deployed in the latest server environments in which the availability of all the latest security updates of the underlying platform can also be guaranteed. The original web application may be developed in many languages, such as PHP, Java/J2EE or C# using WebForms.

MAINFRAME MODERNIZATION

Modern programming language, standard server solutions and easier development

Ongoing maintenance and further development of systems developed for the mainframe is often challenging and expensive for an IT organization. With the help of the Eqela Transcend service, the source code of existing such systems can, however, be modernized to target the latest software platforms, operating systems and programming languages. The existing system may originally be, for example, written in COBOL, RPG or PL/1, and can be transformed via automation to become eg. a C# program. All existing functional logic and business rules are implemented in the new system as is, without modifications.

CLOUD MIGRATION

Transformation of architecture and modernization to target web, mobile and cloud

The software architecture of a cloud based solution often significantly differs from the architectures used on platforms on which many older and existing systems have been built for. With the help of the Eqela Transcend service, it is also possible to redesign the general structure of an existing system, and to divide the application into suitable logical components (eg. database, middleware, frontend / user interface, etc.), and these components can then be implemented to target multiple platforms (eg. web / HTML5 / Javascript, C#, Java / Android, Objective-C / iOS, etc.). The resulting system can then be deployed and maintained on the cloud.