

IN THIS ISSUE

1. [AMELIO Logic Discovery - Analysis for ADS Applications](#)



2. [Easier Understanding of ADS Applications](#)



3. [Delta and EasiRun intensify cooperation](#)



4. [Developer Day "Frankfurter Entwicklertag 2016"](#)

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1 AMELIO Logic Discovery - Analysis for ADS Applications

It is difficult and expensive to understand large and complex applications. But real understanding of the applications is a decisive factor for many projects in the area of modernisation, outsourcing, re-implementation.

AMELIO Logic Discovery provides the necessary information for this purpose about the functionality and the architecture of the applications. The tool is available for the analysis of applications that have been developed with COBOL, PL/I or in a generative way with Delta ADS.

Find out which analyses AMELIO Logic Discovery provides to help you to better understand especially ADS generated applications:



2 Easier Understanding of ADS Applications

AMELIO Logic Discovery for ADS and Post Generation Debugger Hand in Hand

Over decades customers used our generative developing system Delta ADS to efficiently develop and maintain big and complex applications. Only in some cases these applications are maintained or modernised by their original developers. More often this is done by their successors or even outsourced to an external company.

Compared to programming in native code the usage of ADS has many advantages, amongst others the development takes place on a higher level of abstraction as it is possible in native COBOL or PL/I. This level of abstraction should be used to enable an efficient transfer of the application to a successor or service provider without any loss. But: the existing documentation is often not sufficient and the original developers are no longer available.

For this reason we combined both our tools AMELIO Logic Dis-

covery for ADS and the Post-Generation Debugger to automatically gain the knowledge necessary to understand and modernise ADS applications.

AMELIO Logic Discovery for ADS

AMELIO Logic Discovery helps you to understand big COBOL and PL/I applications. Amongst others it analyses what the application does and which dependencies and special cases do exist. We introduced additional analysis for applications developed with ADS. These separate the business logic from the generated technical implementations. Additionally, by evaluating the information from the generation process, an abstracting level is achieved that is higher than the one offered by the generated language (i.e. native COBOL or PL/I).



Post-Generation Debugger

The Post-Generation Debugger is our tool to support the development and maintenance of ADS applications. It shows which modules were used for a generation, which parameters were relevant as well as their respective values.

Thereby the Post Generation Debugger contributes to understand the interaction between the modules building an ADS-application.

Hand in Hand

To enlarge the advantages of both tools we connected AMELIO Logic Discovery for ADS and the Post-Generation Debugger and synchronized the presentation of the analysis results.

For example, when looking at a procedure in Logic Discovery – with its interface, used variables, control flow, call conditions, etc. – the Post-Generation

Debugger shows in parallel which modules were used to generate this procedure and which values these relevant parameters had.

In this way the functionality of the application is identified together with its relationship to the specific ADS components. Thus the coupling of both tools allows to understand both, the application and the framework, at the same time.

You have an ADS application and you need to understand its functionality and its construction? Then AMELIO Logic Discovery and the Post Generation Debugger is the solution for you. Please get in touch, we like to present you the ability of this new solution.

3 Delta and EasiRun intensify cooperation

EasiRun Europa GmbH is a provider of products, tools and solutions for the modernisation of applications and software development platforms with focus on COBOL.

Delta and EasiRun have a reliable project driven cooperation since many years to collaboratively solve tasks for our customers. We are pleased to announce that this cooperation will now be intensified and extended. The focus will be on modernisation projects for which we will offer our products and services together.

EasiRun is a specialist for COBOL compilers and thus has an extensive knowledge about compilers and the COBOL programming language. Delta specialises in building tools for COBOL since 1976 and in automating the modernisation of such applications. This knowledge, experience and tools are now

brought together and will be even more integrated.

By harmonising our tools and our knowledge we can offer you solutions “all in one piece” and perform modernisations even more efficiently, totally secure and with less costs.

In addition EasiRun becomes provider for our comprehensive analysing tool AMELIO Logic Discovery. By this, you get the possibility to receive all products from one supplier.

EasiRun Europa GmbH

EasiRun is a German-based product, tools and solutions provider for the software modernisation and software development modernisation of legacy applications with an emphasis on COBOL. Since 1994, EasiRun Europa has specialised in application analysis, code conversion and transformation and the integration of legacy COBOL applications into Java and .NET environments.



4 Developer Day "Frankfurter Entwicklertag 2016"

The Software Engineering Conference "Frankfurter Entwicklertag" within the Rhine-Main-Region: Agility, Quality, Innovation.

Software engineering as basis for innovation – this topic will be addressed in 4 subject areas. In times of "all digital" and "all mobile" the core question is how enterprises remain competitive and whether software craftsmanship and agile methods support this.

Frankfurter Entwicklertag (Developer Day Frankfurt)

10.-11. March 2016, Frankfurt (Main), Germany

Benefit from the early bird rebate and register now.

On 10th March 2016 at 10:30 a.m. Delta Software Technology presents:

Legacy-Modernisation: more than saving costs

Many companies have developed their business critical core applications in the past decades using COBOL or PL/I. Maintenance and ongoing development have made them into large and complex applications. Although these applications implement much knowledge about business internal processes they are also often regarded as a burden. The reason for this is that they often run on overpriced platforms and use outdated technologies. In addition, adapting these monolithic applications to new demands requires large efforts. Rewriting in a modern language and using up-to-date paradigms is an extremely expensive and very risky endeavour.

These applications can be migrated to a more cost-efficient and modern platform to save money in short term. To this end, platform specific implementations have to be identified and transformed. There are a number of different approaches which partly or fully automatically perform such transformations. We take these approaches one step ahead. We recommend using the migration not only to remove platform specific aspects but also to modernise the overall application. Thereby the monolithic application is converted into a service-oriented application

and out-dated technologies, such as hierarchical and CODASYL databases, are replaced by modern SQL systems, superfluous code (dead code) is removed. Such modernisation requires architectural transformations. In the context of different projects we have developed concepts and tools to perform these transformations fully automatically.

We advise to perform the transformation in multiple steps. Each step should result in an executable application. Thereby the risk for the modernisation project is reduced to a minimum. After each step the chosen strategy can be changed if necessary and even more important, after each step the benefits of the introduced improvements are immediately available.

The modernisation project delivers a flexible application which can be adapted to new requirements and technologies. It can be maintained in an agile process like other applications. As the application gets split into several smaller parts these sub-applications can afterwards be re-implemented as needed. This approach therefore allows a secure and step-wise change into a modern world.

Such a proceeding is only promising if the modernisation is performed fully automatically as the applications are big, complex and business critical.

We present how such a stepwise and automatic change is possible by introducing the underlying concepts and showing the feasibility based on a real project.

Our Referent

Daniela Schilling

Dr. Daniela Schilling is CEO of Delta Software Technology.

Developer Day "Frankfurter Entwicklertag" with Delta



Benefit from the early bird rebate and register now for the [Frankfurter Entwicklertag 2016](#). Discuss with us how legacy modernisation can result in more than saving costs.

You cannot participate? Then [contact us](#), we would like to meet for a personal discussion.

More newsletters and our newsletter administration can be found here:
www.delta-software.com/newsletter

