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## 1 ADS 6: The new Release

On 16th July 2012 the new ADS release will be launched, including many new functions for more efficiency in software development. Language extensions for ADS MACRO simplify development and maintenance of applications and application frameworks. New functions for application mining improve the understanding of Delta ADS applications. Analyses and reports provide reliable information for the assessment of your applications.

### Efficient Application Development with Delta ADS

Since decades Delta ADS is used to develop large-scale applications in COBOL and PL/I. The concepts of abstraction realized in ADS and the generative development ensure a very high efficiency, but also allow it to respond on changes very fast. Furthermore, the applications developed with ADS are well suited for the integration with new technologies – SOA, Cloud, Web 2.0. ADS efficiently supports the continuity and evolution in application development.

In the following we introduce some highlights of the new ADS.

Further information will follow in the next newsletters.

### Extended Syntax for ADS MACRO

The development of macros will be much easier and clearer with the new extended syntax of ADS MACRO: descriptive names for parameters – also as mixed case – improve the understanding of the code. The clear indentation clarifies the logical structure.

### Macro Source Optimizer

ADS MACRO enables the systematic multiple use of code. Some of our customers have used this powerful tool to develop application frameworks with thousands of modules.

To ensure that you can use the new extended macro syntax not only in case of new development but also for your existing macros, we provide the Macro Source Optimizer with ADS 6. With Macro Source Optimizer you can convert your existing macros from the old syntax to the new syntax very easily. Even though the syntax is changed the generated code remains the same as before. As a result, you also understand your already existing macros faster and better – automatically.



See the difference here:

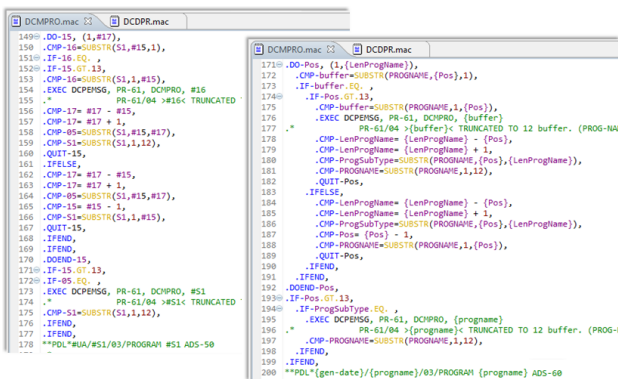


Figure 1: ADS 6 – Automatically optimized macros with new syntax, identifiers, indentation

### Post-Generation Debugger

With ADS 6 we also provide our new Post-Generation Debugger. With this tool we support an absolutely new and innovative concept for the generative development. The Post-Generation Debugger enables you to watch the generator at work retrospectively.

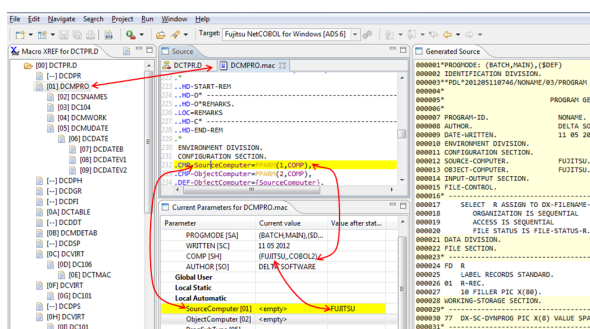


Figure 2: Post Generation Debugger - Which macro statements are executed in which order? What are the parameters' values before and after the execution of the statement?

You can understand and follow the generation process step-by-step – across all layers and across all modules involved in the generation. The dynamic navigation leads you directly to the right place – without any time-consuming, prior setting of breakpoints. You can freely navigate by yourself, going backwards and forwards in the generation. You see

the contents of all variables before and after the execution of the statements.

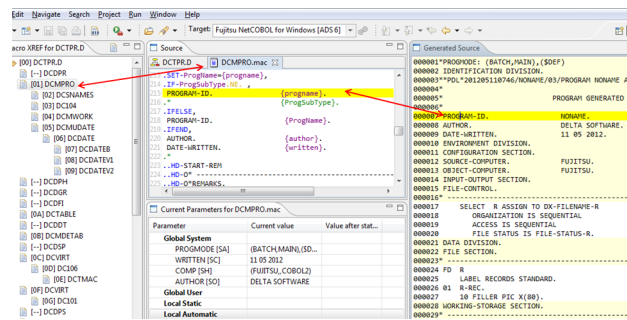


Figure 3: Post Generation Debugger - By which module and by which statement generated a specific line of code?

With the new Post-Generation Debugger you easily track the source of a generated line of code by a simple click, find out which module was responsible for the generation and due to which parameter contents and conditions.

Clear markings highlight the relevant information. You see the structure of the modules and have a clear view of all layers. In this way, development and testing get really easy.

### The new ADS 6: Final Release on 16th July 2012

With the new ADS release the development and maintenance gets more efficient. We will release the new ADS 6 on 16th July 2012. Order your update now.

## 2 B+S Improves Efficiency of Software Development with ADS 6

B+S Bankssysteme AG (B+S) has one of the largest application systems that has been developed with Delta



tools. In April 2012 B+S started to introduce the pre-release of ADS 6 in order to again increase the efficiency and quality of their software development and maintenance.

### Generative Development with ADS

B+S successfully uses the generative development system Delta ADS for the development of their products already for decades. More than 300 million lines of code are generated for four completely different platforms every year. "For more than 20 years now we successfully use Delta tools to develop and maintain our large scale and complex banking solutions. The excellent implementation of the principle of generative software development by all Delta tools enables us to develop our software products platform independently and with the highest possible degree of automation. Thereby we meet our customers' demands on reliability and quality.", says Wilhelm Berger, CFO at B+S.

### Experiences with the new ADS 6

In April 2012, B+S started to introduce the pre-release of ADS 6. Oswald Klackl, head of architecture & quality management at B+S, about the new functions: "The new ADS 6 enables us to further improve the efficiency and quality of our software development and maintenance. For example, new functions for the detailed documentation and de-

scription of the generating process help us to securely and fast perform changes and enhancements on our large scale and complex applications."

### About B+S Banksysteme AG

B+S Banksysteme Aktiengesellschaft (B+ S) supports banks, data centres and core banking manufacturers with customizable standard software and with powerful, flexible and scalable application packages for financial management. The products of the company which is listed at the Frankfurt stock exchange are completely platform-independent and due to their standard interfaces they can flexibly be integrated. They are multi-client and multi-currency capable as well as multilingual.

Further information on B+S: [www.bs-ag.com](http://www.bs-ag.com) (website only available in German)

### More about ADS 6

You want to benefit from the new functions of ADS 6 as well? Then order your update now.

## 3 New HyperSenses Version

In July the newest version of HyperSenses will be available as download for you.

<http://www.hypersenses.com>

More newsletters and our newsletter administration can be found here: [www.delta-software.com/newsletter](http://www.delta-software.com/newsletter)

