



Kyocera Mita Corporation (KMC)

This global copier manufacturer implements a Model Driven Development process that allows reverse modeling and simulation, reducing development time and lowering costs by reducing development and production errors



Tokyo, Japan

www.kyoceramita.com/company/

“MDD enables existing design information/ knowledge and software codes to be used as assets by turning them into models to be used for new product development.”

— Keiji Itsukushima,
Senior GM, Corporate R&D Division,
Kyocera Mita Corporation

The client manufactures and distributes copiers worldwide and is one of the leaders in the market.

The Opportunity

Digital copiers now provide multiple integrated capabilities beyond copying. Known as Multi Functional Printer/Peripherals (MFP), such devices require extremely complex and huge sizes of embedded software with source code of millions of lines. It is paramount to remain competitive by reusing existing software assets as much as possible. However, repetition of add-on development using existing software led to bloated and complicated applications, preventing efficient responses to the needs of new functionality or products.

What Makes it Smarter

Enabling faster architecture design and decision making in new product design by utilizing existing software codes and advanced technologies is the key to maintaining a competitive position for a company with limited development resources compared with the industry's leaders. An innovative Model Driven Development (MDD) solution gives KMC the ability to improve development productivity and reduce costs significantly in many ways. A key to MDD is the simulation process, which can find design errors prior to physically building and testing the copier product. This can provide a significant cost advantage to the manufacturer since approximately 80 percent of design errors are not found until a copier is actually built and used. The company can now evaluate performance and make architecture decisions before investing the time and money to physically build the actual products.

What if you could find up to 80 percent of design errors prior to production, while reducing new product development time by 30 percent?



Solution Components

- IBM® Research Tokyo
 - IBM Yamato Laboratory
 - IBM Global Business Services
 - IBM Rational® Rhapsody® v 7.5
-

Real Business Results

- Models created through reverse modeling for existing systems are now available for use in new product development based on MDD, contributing to a 30 percent shorter development time and lower costs
- Provides engineers and development teams with critical insights into how a given architecture and/or design turns into a specific behavior/performance in the actual system
- Model simulation allows system performance to be quantitatively measured on models

For more information

Please contact your IBM sales representative or IBM Business Partner.
Visit us at: ibm.com/electronics

To learn more about Kyocera Mita Corporation visit:
www.kyoceramita.com/company/



© Copyright IBM Corporation 2011

IBM Corporation
1 New Orchard Road
Armonk, NY 10504
U.S.A.

Produced in the United States
May 2011
All Rights Reserved

IBM, the IBM logo, ibm.com, Rational and Rhapsody are trademarks of International Business Machines Corporation, registered in many jurisdictions worldwide. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml

Other company, product or service names may be trademarks or service marks of others.

The information contained in this documentation is provided for informational purposes only. While efforts were made to verify the completeness and accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind, express or implied. In addition, this information is based on IBM's current product plans and strategy, which are subject to change by IBM without notice. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, this documentation or any other documentation. Nothing contained in this documentation is intended to, nor shall have the effect of, creating any warranties or representations from IBM (or its suppliers or licensors), or altering the terms and conditions of the applicable license agreement governing the use of IBM software.



Please Recycle

RAC14205-USEN-01
