

IMS Simplification: Shrinking the Generation Gap for IMS Application Development

Session 1900

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IBM Software.

Information On Demand 2011



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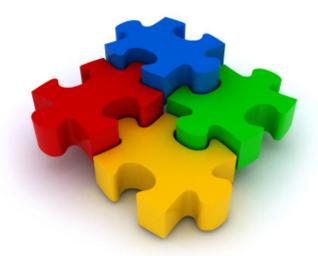




IMS Simplification

Reduce skills, time and cost required to manage IMS systems and to develop IMS applications

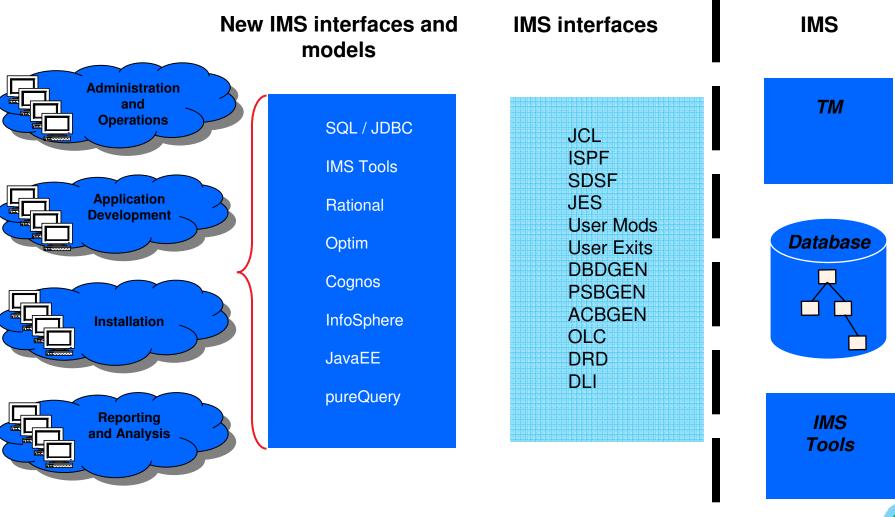
- ✓ Using industry standards
- ✓ Consistent look and feel
- ✓ Integration







IMS Simplification

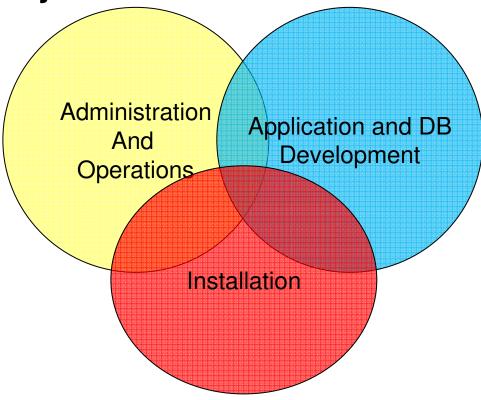


Reduce the need for in-depth IMS skills





Areas to Simplify

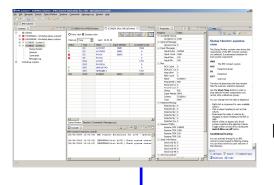






IMS Simplification – Externals

Development (Eclipse)



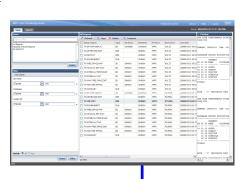


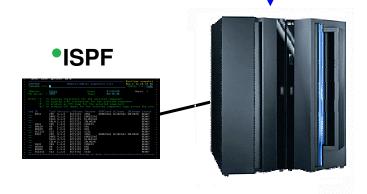
Developer

Administration (Web Browser)



Administrator









IMS Application and Database Development







Application Development Life Cycle

Visualize Database (Design / Understand)

IMS Explorer for Development

Define Queries (Build and test)

IMS Explorer for Development

Code (Remote development and build)

Rational Developer for System z

Unit Test

Batch Terminal Simulator

Debug

Debug Tool for z/OS

Deploy



* HII

IMS Explorer for Development

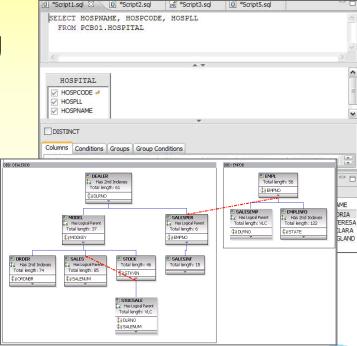
 Visualize IMS database structure as defined by DBD source

 Change IMS Database and Program Definitions sources

 Graphically access IMS data using SQL

View your mainframe datasets

Submit JCL and inspect output in JES







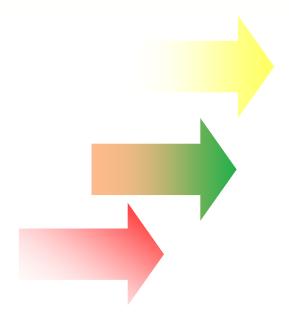


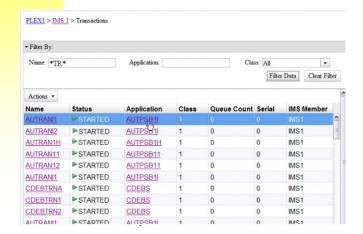
IMS Explorer

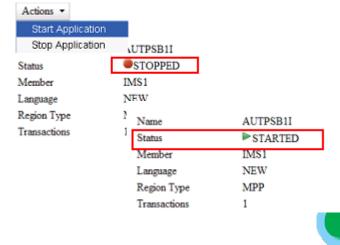


IMS Explorer for Development – Short Term Candidates

- View programs and transactions
- Stop/start programs and transactions
- Put transactions in a queue







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Application Development Life Cycle

Visualize Database (Design / Understand)

IMS Explorer for Development

Define Queries (Build and test)

IMS Explorer for Development

Code (Remote development and build)

Rational Developer for System z

Unit Test

Batch Terminal Simulator

Debug

Debug Tool for z/OS

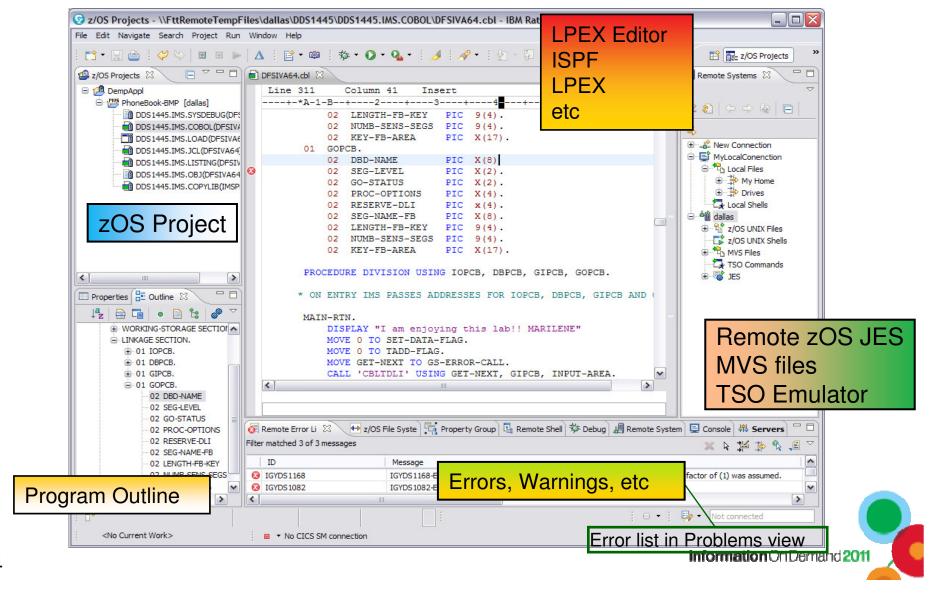
Deploy







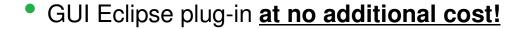
Common development environment for COBOL, PL/I, C/C++, and Java





The Debug Tool for z/OS

- Interactive debugging for applications
- Multiple languages:
 - COBOL, PL/I, C/C++, Assembler
- Multiple z/OS environments
 - Batch, TSO, CICS, IMS/TM, DB2 stored procedures,
 - Websphere application server, Unix system services



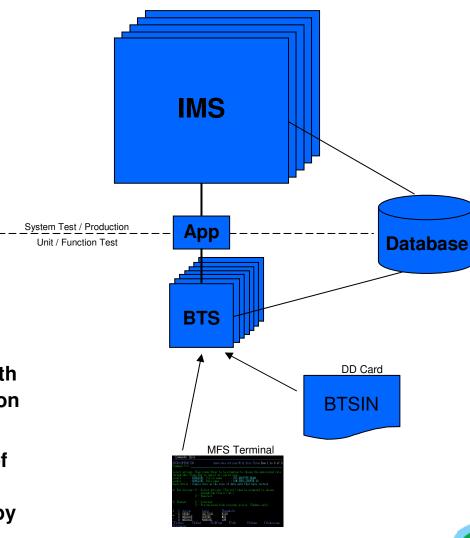






IMS Batch Terminal Simulator Modernization

- Tool for Unit Testing and Debugging IMS applications
 - Runs in TSO, IMS Batch (DL/I
 DBB) or IMS Online (BMP/JBP)
 - Simulates IMS DC calls
- Driven through BTSIN control statements or interactive full screen TSO simulation
- Playback utility
 - Generates BTSIN with the corresponding MFS associated with the MOD name from IMS transaction log records ('01'X, '03'X).
 - Prints containing screen images of transactions including data, USER/LTERM identification, time by extracting from BTSOUT

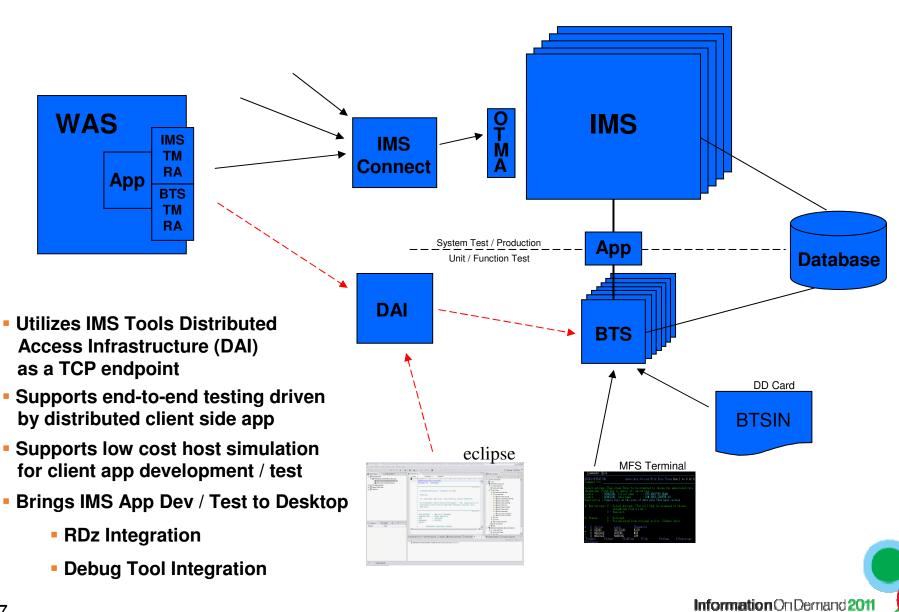


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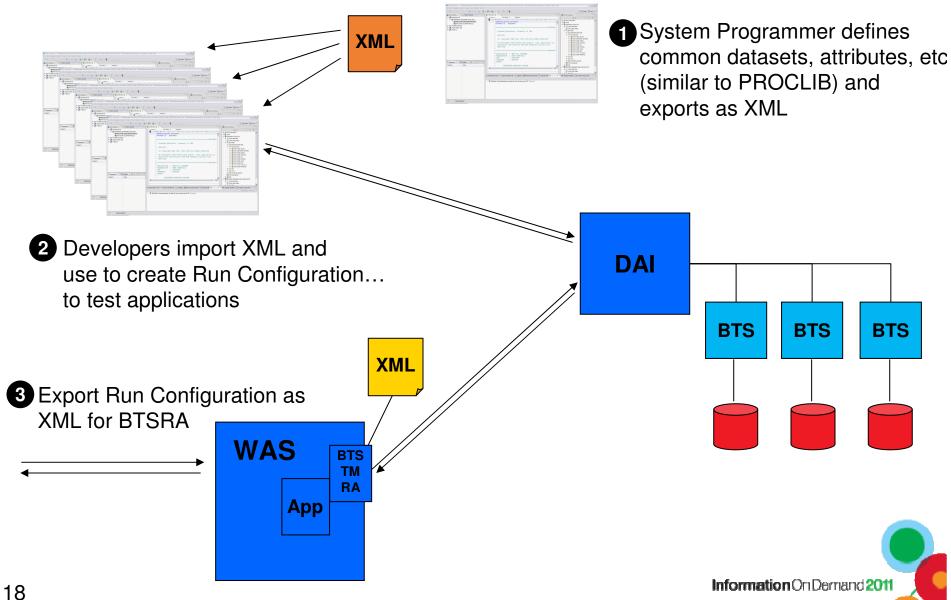


IMS Batch Terminal Simulator Modernization





Application Development Modernization with BTS







- RDz
- BTS
- Debug Tool





IMS Simplification for AD – Our Vision

- Lessen the need of IMS specialized knowledge
- Same look and feel across:
 - Language (Java, COBOL, etc)
 - Platform (Mainframe, Distributed)
 - Transaction (WAS/CICS/TM)
 - Database (IMS/DB2)

 An environment with a single interface that integrates design, coding, testing, and debugging

