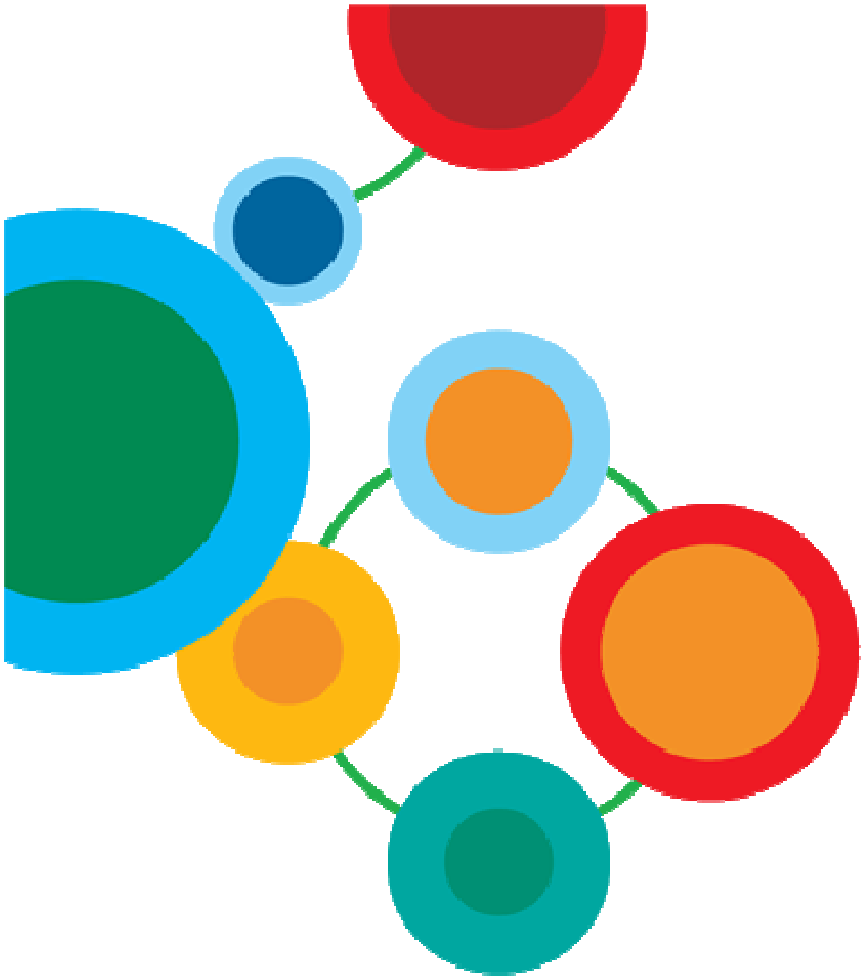

IMS Trends and Directions
Session Number IMS-2843

Bev Tyrrell

Director, IMS

IBM Silicon Valley Lab

IBM Software

Information On Demand 2011

Please Note:

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

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AGENDA

- What's New
- Trends and Focus Areas
- What Customers are doing with IMS now
- What's Next?

What's New

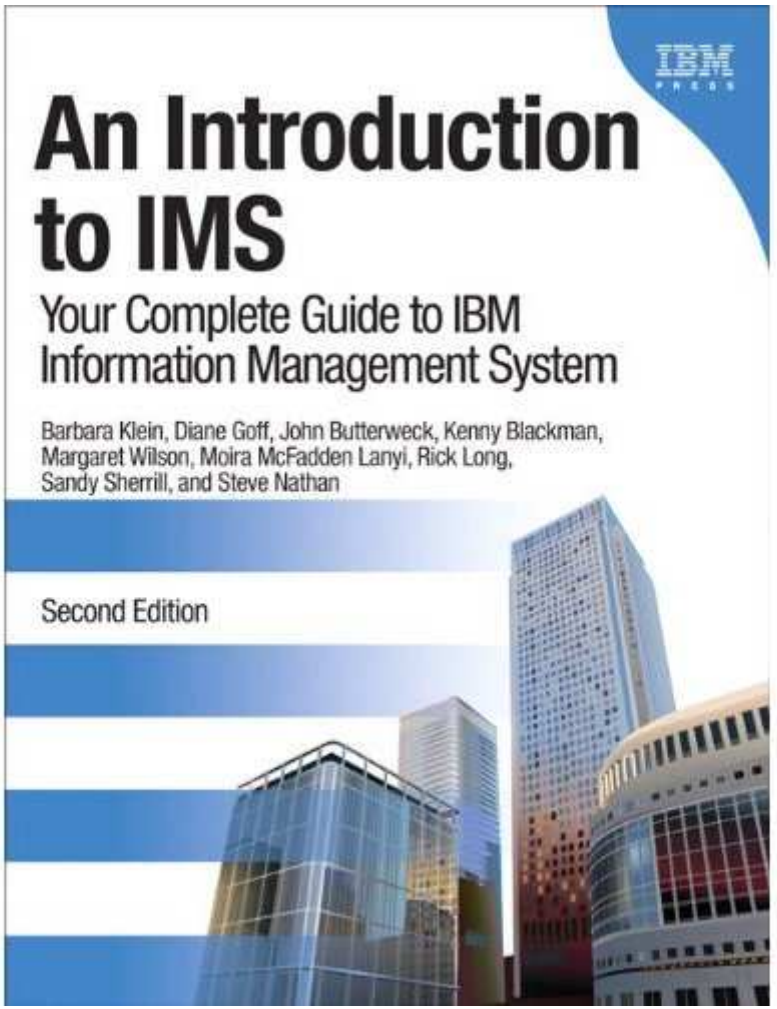
IMS 12 General Availability

- IMS 12 is GA October 28, 2011
  - Enterprise Suite 2.1
- QPP has been running since Dec 2010
  - 14 external customers, 26 vendors
  - 5 customers running IMS 12 in production!

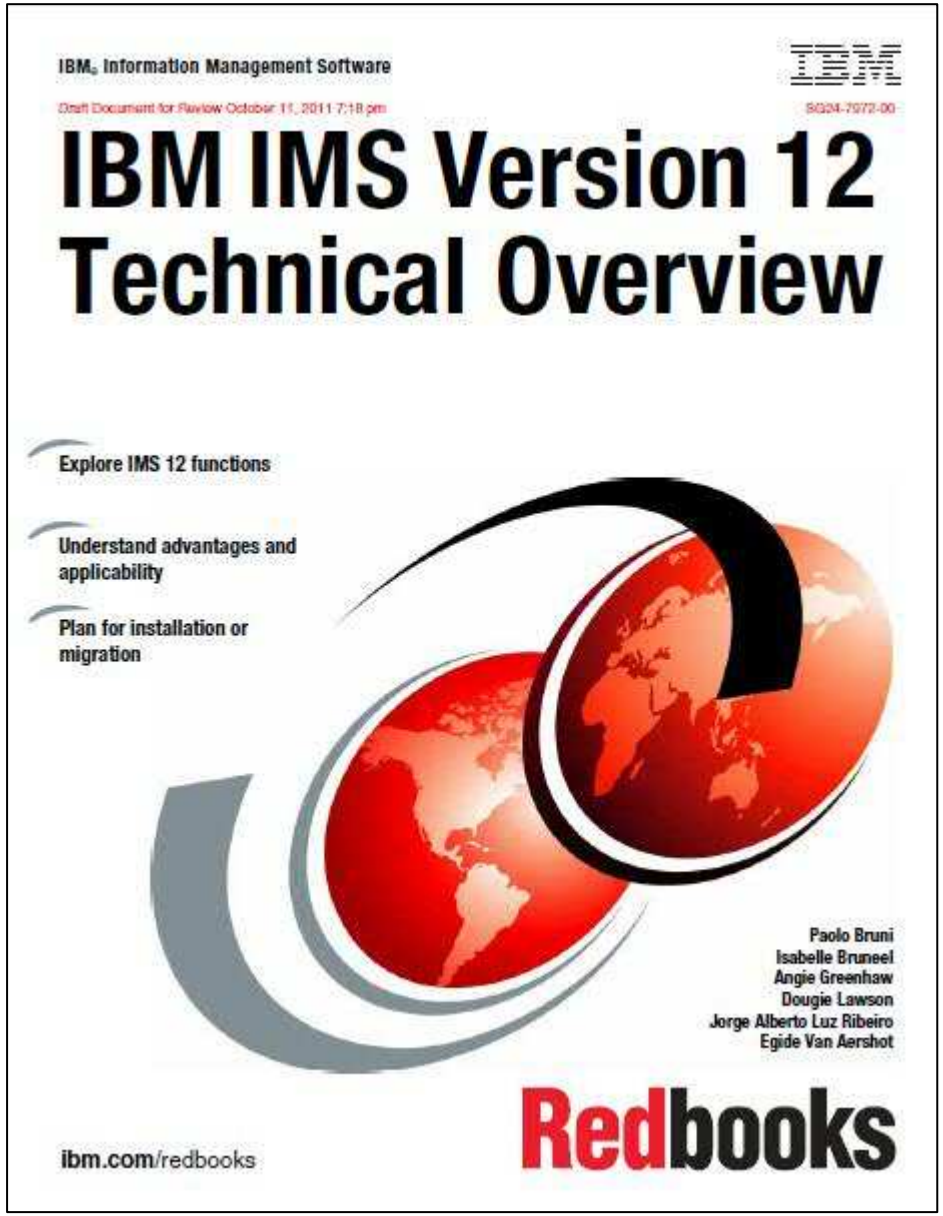
An Introduction to IMS – Second Edition

- Updated to include IMS 10, IMS 11 and IMS 12 functions
- Available for pre-order
- Will ship December 2011

amazon



IMS 12 Redbook Announcement

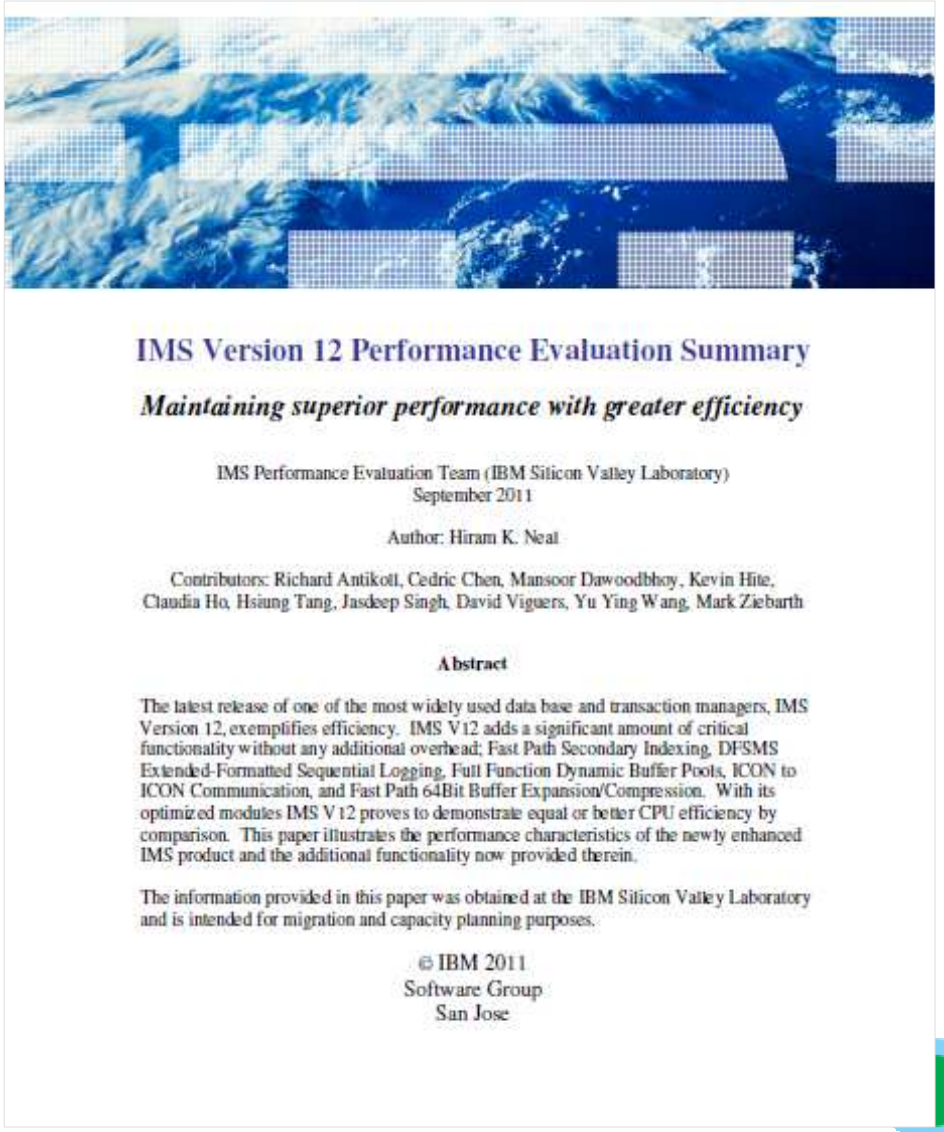


- Just released!
- Discusses all IMS 12 capabilities from a user perspective
- Draft available for free download at http://www.redbooks.ibm.com

IMS 12 Performance White Paper is Available

- Detailed results of our internal performance tests
- Environment, functions tested, MIPS and throughput results
- Available for download at

  www.ibm.com/ims



IMS Version 12 Performance Evaluation Summary

Maintaining superior performance with greater efficiency

IMS Performance Evaluation Team (IBM Silicon Valley Laboratory)
September 2011

Author: Hiram K. Neal

Contributors: Richard Antikoli, Cedric Chen, Mansoor Dawoodbhoy, Kevin Hite, Claudia Ho, Hsiang Tang, Jasdeep Singh, David Viguers, Yu Ying Wang, Mark Ziebarth

Abstract

The latest release of one of the most widely used data base and transaction managers, IMS Version 12, exemplifies efficiency. IMS V12 adds a significant amount of critical functionality without any additional overhead; Fast Path Secondary Indexing, DFSMS Extended-Formatted Sequential Logging, Full Function Dynamic Buffer Pools, ICON to ICON Communication, and Fast Path 64Bit Buffer Expansion/Compression. With its optimized modules IMS V12 proves to demonstrate equal or better CPU efficiency by comparison. This paper illustrates the performance characteristics of the newly enhanced IMS product and the additional functionality now provided therein.

The information provided in this paper was obtained at the IBM Silicon Valley Laboratory and is intended for migration and capacity planning purposes.

Software Group
San Jose

Free IMS Lab-driven Customer Workshops

- IMS Value Assessment
  - Business and architectural review of IMS subsystem and applications with the goal of helping customers get more value out of their IMS investment
- IMS Database Workshop
  - Hands-on workshop for application developers to learn about and test drive the latest advances in IMS database technology
- IMS SOA Workshop
  - Hands-on workshop for application developers to learn about IMS SOA capabilities which provide capabilities to service-enable and reuse IMS assets (data and business logic)
- IMS Cobol, JAVA and PLI Application Development Workshops
  - Hands-on workshop for application developers allowing them to test drive the latest tools to accelerate and simplify IMS application development; available for COBOL, PLI and JAVA developers

Want to know more? Ask Ann Sheridan easherida@us.ibm.com

IMS 12 Enhancements and Migration Seminars

- *Complimentary two-day IMS technical update*
- *In-depth discussion of major topics in migrating to IMS 12*

Tentative Agenda Topics

System Enhancements
Security Considerations
Database Enhancements
IMS Tools Update
IMS Connectivity Enhancements
Application Integration Options
IMS Enterprise Suite
DBRC Enhancements
Installation and Migration Considerations

Tentative Locations

Phoenix
Toronto
New York City
Dallas
Detroit
Springfield
Columbus
Minneapolis
Los Angeles
San Francisco Bay Area
Boston
Hartford

Madrid
Paris
Rome
Copenhagen
Amsterdam
Brussels
Stockholm
Johannesburg
Tokyo
Taipei
Hong Kong

Announcing IMS Customer Internship Program

- New program offered at SVL IMS Lab
- Objective is to quickly grow IMS skills
- Basic system z skills assumed
- Initial class 2Q 2012
- Class limited to <10 participants
- 2 month minimal duration, possibility to extend
- Customers will work on real projects tailored to customer profile
- Formal and informal classes will be taught by IMS engineers.

Interested?

Contact Steve Zozaya zozaya@us.ibm.com

European IMS Architecture Team

- New team to focus on IMS as part of our customers' overall z architecture plans
- Similar to Americas ATS team
- Net new investment in IMS.
- France, UK, Spain, Germany, Nordics, Alps.
- Mission is to support IMS strategically as part of overall system z architecture

IMS China Lab Team Expanded

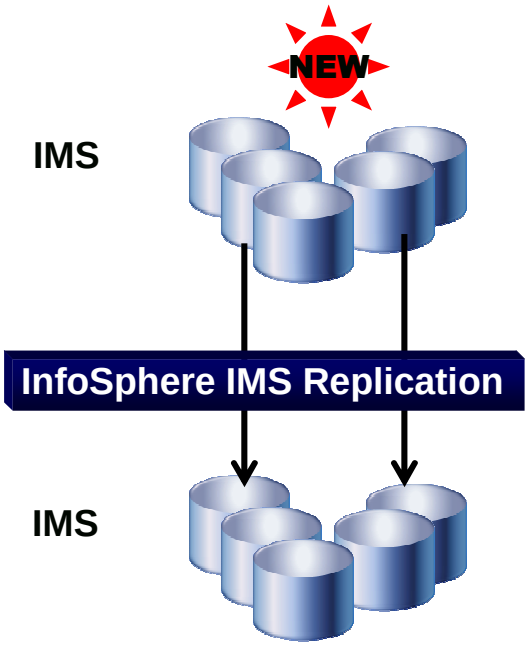
- **Initial small team focused on technical support for IBM China and Taiwan IMS clients**
- **Some new development and QA projects started at CDL.**
- **Integrated team for IMS and IMS tools.**
- **Continuing to expand this team in 2011 with additional QA resource.**

IMS Catalog

- The IMS catalog
  - information about IMS resources and relevant application metadata that IMS controls
  - All program- and database-related information defined to the IMS database system including databases, fields, segments, data types, and more
  - Changes made to any of these resources when you create, alter, or delete any IMS resource information will be reflected in the catalog
- The IMS catalog is a key component of the IMS growth strategy:
  - Trusted information
  - Comprehensive view of IMS database metadata (including application metadata) managed by IMS with standard access patterns (JDBC/SQL)
  - Offers metadata discovery and exchange via IMS Open Database and the IMS Explorer for Application Development
  - Scalable Open Database solution – large scale deployment into virtualized production and test environments
  - Enables broad IMS integration into the IBM and non-IBM portfolio of tools (Optim Development Studio, Rational Asset Analyzer, InfoSphere Data Architect, etc)
- Tech Preview of IMS Catalog available as of October 21!

IMS Software-Based Data Mirroring
InfoSphere IMS Replication

- Unidirectional Replication of IMS data
  - All or nothing at DB level
  - Conflicts will be detected
    - Manual resolution will be required
  - External initial load of target DB
  - Transaction consistency
  - Basic replication monitoring
- IMS “Capture”
  - DB/TM, DBCTL, Batch DL/I
  - XRF supported
  - Capture x’99’ log records
    - Increase in log volume due to change data capture records
- IMS “Apply”
  - Uses IMS Database Resource Adapter interface
  - Serialization based on resources updated by unit of recovery
  - Uses bookmark DB for restart support
- Administration via Classic Data Architect & z/OS console commands



IMS Strengths

QUALITY
IS OUR PASSION.
QUALITY
IS OUR BUSINESS.

- *Quality*
  - IMS has best customer sat in IBM SWG
  - PE (PTF in Error) rate halved over past 5 years.
  - Field Apar Rate improved consistently Version to Version
  - 6 customers in production on IMS 11 prior to GA, 4 of them full enterprise
  - 5 customers in production on IMS 12 prior to GA, others with near term production plans.

- *Reliability*
  - IMS is running core business apps in most large global financial, insurance, manufacturing and telecommunications companies.
  - Many customers go years without an unplanned outage
  - In cases of hard downs (power outages etc) IMS recovers gracefully
  - Sysplex support, Shared Message Queues, Data Sharing features for High Availability
  - Data integrity problems very rare.

IMS Strengths

- *Performance/Scalability*
  - Lab benchmark with single system IMS 12, z196
    - - **46,000 trans/sec Fastpath** application with database update and 30,000 simulated network clients!
    - With 3 IMS images, benchmark achieved **61,000 trans/sec**!
  - Customers running >7500 trans/sec, 200M+ trans/day
  - DL/I database extremely efficient, uses less DASD space and faster access than relational.
  - Continuous improvements in MIPS consumption, offload capabilities

- *Modern*
  - IMS today is “open”, through industry standard interfaces.
  - Direct access to IMS transactions and data from distributed systems
  - Integrated with standard tooling, BI solutions, Web 2.0
  - Rich support for Java, SQL, .NET
  - Sophisticated Web Services implementation with support for top down WSDL definition, Callout and advanced security.

Growth of the IMS Business

- IMS runs CORE business apps
  - ATM networks, core banking, bill of materials applications, auto/airline maintenance, insurance policy/claims.
  - Most companies already run IMS for these applications!

- New Customers
  - Mergers and Acquisitions
  - New applications built on IMS – eg. TARGET2Securities (T2S) project for EU
  - Consolidations of Transaction Managers
  - Upgrade from DL/I VSAM
  - Strong potential in emerging GEOs
    - 2 POCs being driven now in Russia for IMS TM/DB

- Most growth is additional workload from existing customers
  - IMS MIPS have doubled over last 5 years.
  - Over 50% of IMS customers grew transaction workload in 2010.
  - New applications and workloads onto IMS

TARGET2 Securities

- Owned by Eurosystem
- State-of-the-art securities settlement platform for the European Union
- Will be a service offered to European Central Securities Depositories (CSD)
- Standardized process for settling almost all heavily traded securities against the Euro
- Scheduled to be tested with CSDs January 2014, and available in Sept 2014.
- Development and future operation of T2S has been assigned to 4 National CSDs:
  - Deutsche Bundesbank, Banque de France, Banca d'Italia and Banco de España
- IMS has been selected as part of the platform on which T2S will be built.

New IMS Business Opportunities in Russia

- Russian companies just starting to centralize and look for automated enterprise systems.
- IBM Sales and BP actively working with 2 new clients for IMS POC.
- IMS Lab team in Moscow – Dev & QA
- Working with Bauman University to teach IMS
- Run several multi-customer IMS awareness events in Russia

CREDIT SUISSE

Business Challenge

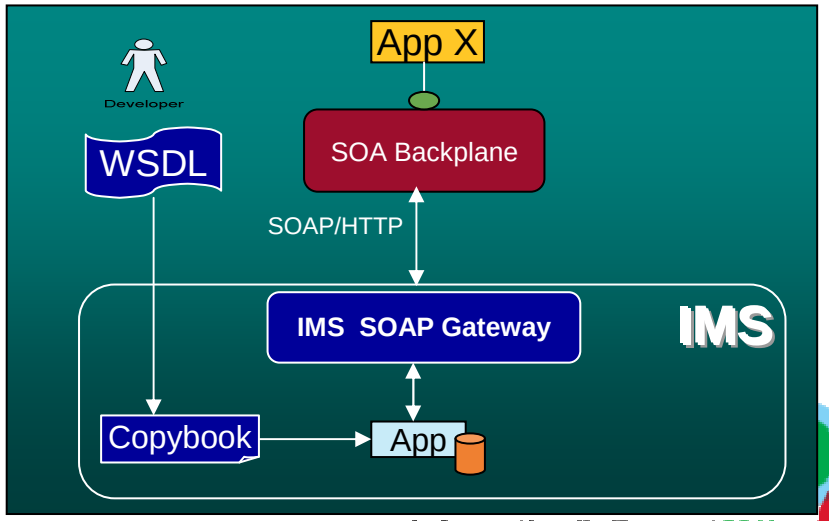
- *Credit Suisse needs to flexibly and cost efficiently implement new and changed business requirements to isolate the effects of changes and prevent ripple effects of changes. They need services with a business semantic that is unrelated to the current implementation or database schema.*

Solutions

- *Credit Suisse's Strategic core banking applications are built and evolved with PL/I as the preferred language on IMS*
- *Start with Web services description files (WSDL) that represent the interface contract to develop new and evolve existing IMS applications*
- *A top-down approach is required to map complex XML data structures, including unbounded arrays and strings to PL/I*
- *Using IMS SOAP Gateway for both inbound and outbound requests, with RDz as the development tooling.*
- *First Web Services now successfully in production!*

Benefits

- *Integrate IMS systems into overall enterprise SOA infrastructure and maintain high availability and throughput in the new IMS profile*



WELLPOINT.

Wellpoint is the largest health benefits company in the United States by membership. In 2010, they embarked on a proof-of-concept to modernize a proprietary connectivity solution used to access claims data residing in IMS.

Solution

The new solution, using IMS Connect, WAS, and DataPower, enabled them to implement a solution that was better aligned to their overall SOA strategy and that provided them with a web services interface.

Benefit

As a result of implementing these new technologies, Wellpoint now has a new architecture that is faster, uses less mainframe CPU and enables mainframe transaction avoidance through configuration-based side caching. These changes enabled them to meet their overall objectives of improving performance and lower costs.

Results

- *Java media performance was 17% faster round trip*
- *.NET median performance was 60% faster round trip*
- *Mainframe connectivity related CPU was reduced 20-59%*
- *RPC calls were processed 200% faster*

CATERPILLAR®

Business Challenge

- *Connect IMS applications with distributed applications tracking manufacturing materials across the enterprise, to maintain the currency of data in both systems.*

Solutions

- *Implement the IMS SOAP Gateway on z/OS.*
- *Implement both asynchronous and synchronous Callout from IMS programs.*
- *Implement IMS V11 With ODBM*

Benefits

- *Data for tracking materials is updated between systems allowing better control of inventory and eliminating waste.*

- *"IMS "Callout", ODBM, and the SOAP Gateway allow us to keep data in distributed systems in "sync" with that in the legacy IMS systems, helping maintain inventory control."*

Steve Clanton
IT Transactional Services, Caterpillar Inc.

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slideshare
present yourself

www.slideshare.net/ibmims

IMS Newsletter

ibm.com/vrm/newsletter/11069

IMS Users Groups

www.ims-ug.org

IMS: There's an App for that!

Developed for those of you with a business or personal interest in IBM's Information Management System (IMS), the app tests your knowledge about IMS in a playful way. The app provides a range of multiple choice questions about IMS and tracks the learning progress of your last quiz sessions. And whenever you want, you can revisit a session and review the related questions and your answers or retry them. In addition the IMS landing page includes news, events, and training courses about IMS.

Let's find out: Are you IMS?

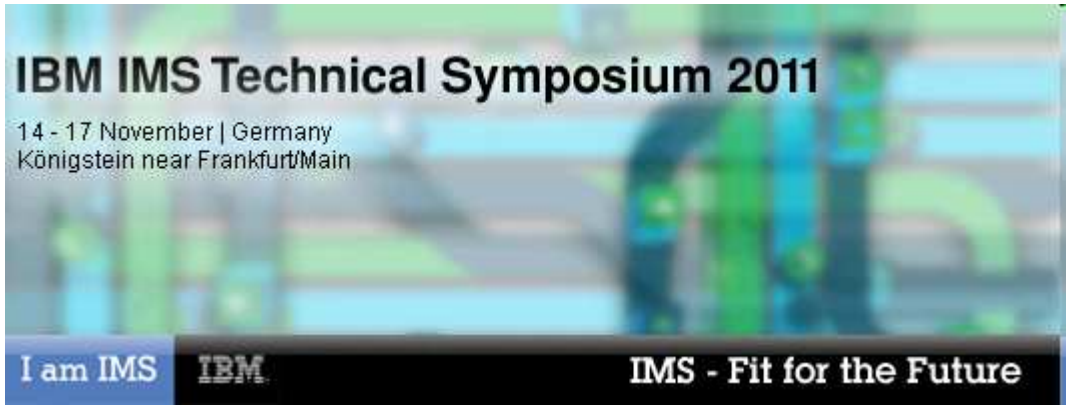
I am IMS IBM

2011 IMS Technical Conferences

Information OnDemand **2011**

The Premier Forum for Information & Analytics

October 23-27, 2011
Mandalay Bay, Las Vegas



Trends and Focus Areas

Cost Savings – “do more with less”

- IMS – lowest cost per transaction DBMS
- IMS DB – less disk space and CPU
- 25% CPU Reduction IMS Connect – V10
- FP 64 bit buffers – V11 and V12
- Transaction Expiration – V11
- Up to 25% CPU Reduction for OLR – V11
- zAAP offload for:
  - Java Application Code in any dependent region
  - Java Dependent Region Resource Adapter
  - IMS Universal Drivers
  - IMS TM Resource Adapter
  - IMS DB Resource Adapter
  - IMS SOAP Gateway
  - XML Converter (some processing is offloadable)
- zAAP on zIIP with z/OS 1.11
- Bucket for each new release with MIPS reduction items

V12 Reducing Pathlength and MIPS Usage

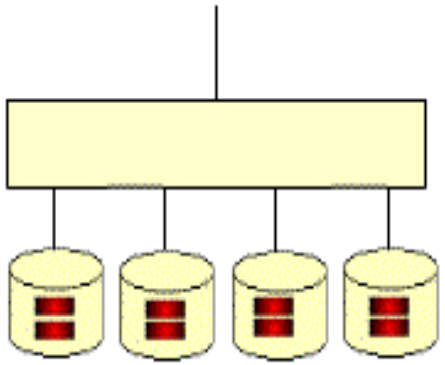
- Database Management
  - DRA Open Thread TCB Enablement for CICS Threadsafe
  - Full Function dynamic database buffer pool management reduces I/Os, and eliminates a system outage for buffer size changes. This reduces MIPS consumption and improves availability.
  - Fast Path users can take advantage of additional 64-bit storage exploitation to reduce ECSA demand and reduce MIPS
  - Fast Path Secondary Index enablement allows access to DEDBs via alternate key
  - Fast Path option to reduce type 99 logging, decreasing logging overhead, which reduces the MIPS required for logging
- Transaction Management and Connectivity
  - OTMA Access Control Environment Element (ACEE) enhancements provide a better security environment and reduce the ACEE storage needed to run IMS
  - Shared queues users should see increased benefit by the elimination of RRS overhead for many OTMA and APPC transactions processed on a back end IMS.
  - IMS Connect RACF Userid Caching enhances performance and significantly reduces MIPs for RACF users
  - IMS Connect Commit Mode 0 ACK NoWait for roll your own users eliminates need for receiving a timeout after the ACK, increasing throughput and reducing MIPs
  - New TCP/IP link for MSC
- Systems Management
  - Storage for selected scheduling pools can be backed by 64-bit real storage, allowing customers with large pools to page fix them to avoid page faults when old data is referenced.
  - Member Online Change (MOLC) option to only process PSB members reducing MIPs and elapsed processing time
  - Logger Write Ahead Data Set (WADS) management changed to be more efficient

IMS 12 Logger Enhancements

IMS logger enhanced to support Extended Format Data Sets

- Online Log Data Set
- System Log Data Set

Allows use of Striping to dramatically increase bandwidth and improve volume of logging



Could DOUBLE online throughput and reduce batch window

64-bit log buffers

- ECSA Virtual Storage Constraint Relief
- Improved performance for DEDB
- Requires Extended Format Data Sets

Write Ahead Data Set (WADS)

- WADS Channel Program rewritten
- Increased efficiency
- Simplifies WADS Data Set Size calculation
- 11% improvement on WADS device response time vs V11

Improved Resiliency

Increased ability to absorb spikes in workload with existing hardware

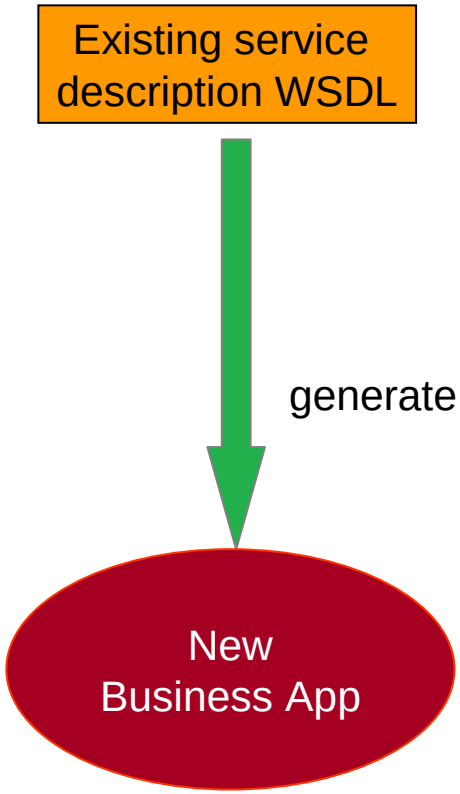
Application Modernization

- Outdated “green screen” applications written in 1970-1980’s
  - Impossible to maintain
  - Heavily batch oriented
- Many customers looking at how to modernize these applications
  - Renovate vs replace
  - Many large IMS customers have application modernization projects ongoing

- Today’s IMS technology makes a compelling case for modernization with IMS
  - Web based access, Web services, re-use of existing, working assets
  - Open technology, connectivity to distributed systems
  - Support of industry standard interfaces, JDBC, XML, J2EE, SQL, Java
  - High performance, availability

Top Down Web Services

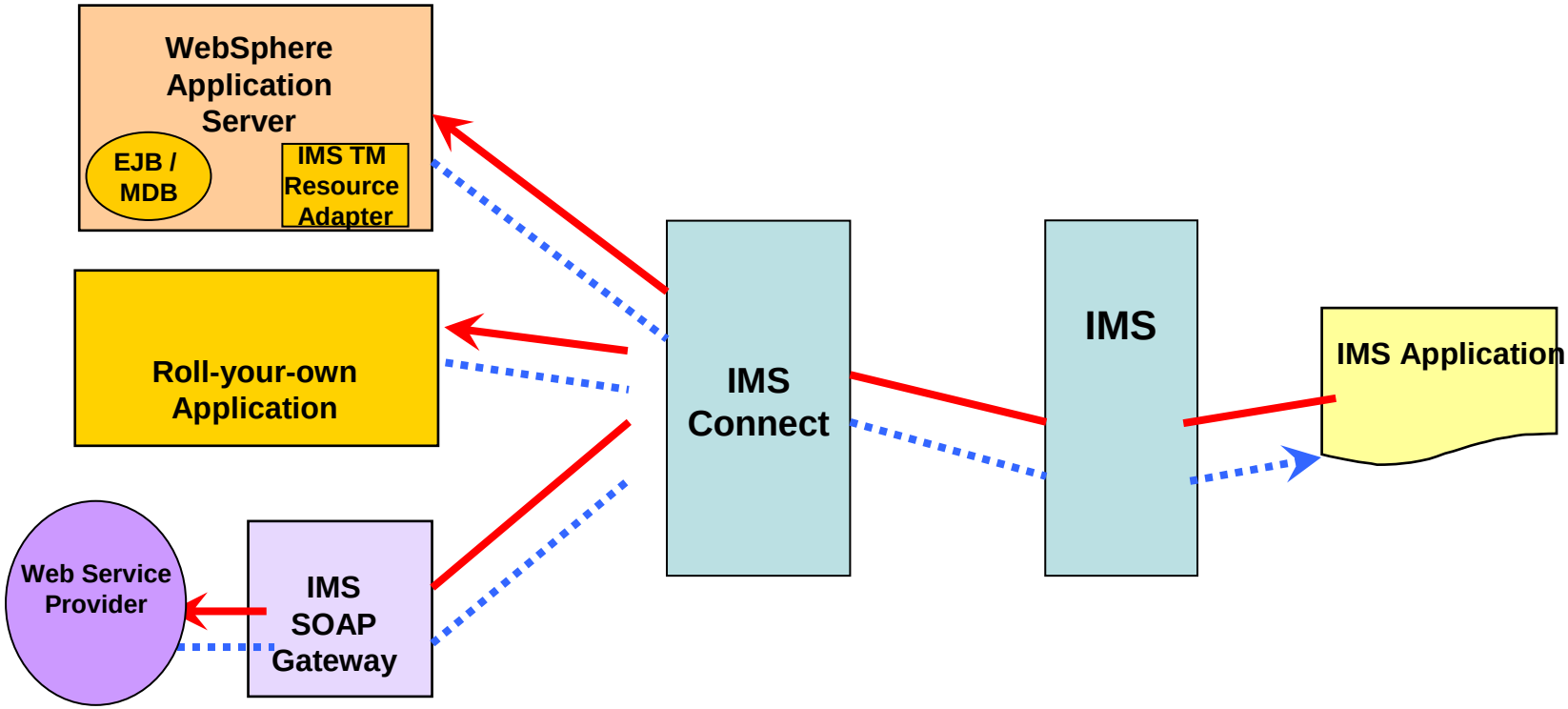
- "WSDL first" approach
  - Implies new application workload
  - Tooling to generate PL/I or COBOL code
- A top-down approach is required to map complex XML data structures, including unbounded arrays and strings to PL/I and COBOL
- Both inbound and outbound requests
- SOAP Gateway
  - Orders of magnitude improvements in performance, security
  - Lightweight SOAP connectivity with no need for Java EE server
- TM Resource Adapter with WebSphere
- Becoming increasingly popular with large IMS customers
  - Several joint development/POC projects underway



Enable New workloads.

Synchronous Callout

- Ability to go outbound from an IMS application program to retrieve data from another program or platform, then resume processing
  - Eg. Sales tax, stock price, interest rate….
- Tremendous customer interest and demand for Callout specific workshops.



IMS Callout

- Enable IMS applications as clients or Web Service requesters
  - Interoperate with business logic outside the IMS environment
  - Callout to Java EE apps and Web Services using WebSphere Application Server and IMS TM Resource Adapter
  - Callout to Web services providers (e.g. Microsoft .NET) using IMS SOAP Gateway
- IMS 10: Asynchronous Callout
  - IMS application invokes external applications without waiting for response Response can be received by another IMS application
- IMS 10 SPE: Synchronous Callout
  - IMS application invokes external application and synchronously waits for the response – new DL/I call ICAL
- IMS 11: Dynamic Change for OTMA Descriptors
  - Can roll out new application changes without an IMS outage
- IMS 12: Send Only with Acknowledgment for synchronous callout
  - Send an acknowledgment to the provider of the service to indicate that the IMS application received the callout response

Distributed Access to IMS Data

- **IMS Open Database offers access to IMS database resources anywhere in the IMSplex *directly* from z/OS and distributed environments**
  - Using *industry standard* Distributed Relational Database Architecture (DRDA) to communicate with IMS Connect

    IMS Universal DB Resource Adapter - to take advantage of Java Platform, Enterprise Edition (J2EE) platform services, JCA 1.5

    IMS Universal JDBC driver - to make SQL calls that directly access your IMS data

    IMS Universal DL/I driver - to issue calls that are similar to DL/I directly to IMS from Java

    RYO - Use a programming language of your choice to issue DRDA commands directly to IMS Connect

  - IMS Connect becomes the gateway to IMS Transactions *and* IMS Data
- ***Makes Application development and Connectivity much simpler!***

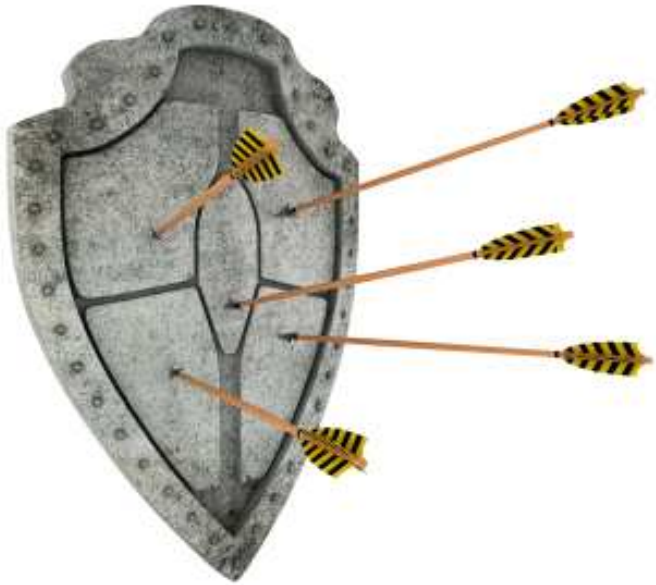
Consolidation

- Mergers and Acquisitions
  - Run workloads side by side or
  - Integrate workloads
- Datacenter consolidations
  - Double throughput requirements

- Result: higher workload on existing machines
- IMS is “gold standard” for high performance, scalability
  - 46,000 trans/sec lab benchmark on IMS 12/z196 with DB update
- MSC Bandwidth Improvements – IMS 10
- FastPath 64 bit buffering – IMS 11
  - 80% of FP buffers can be moved to 64 bit
- Extended Address Volumes for non-VSAM data sets – IMS 12

Resiliency

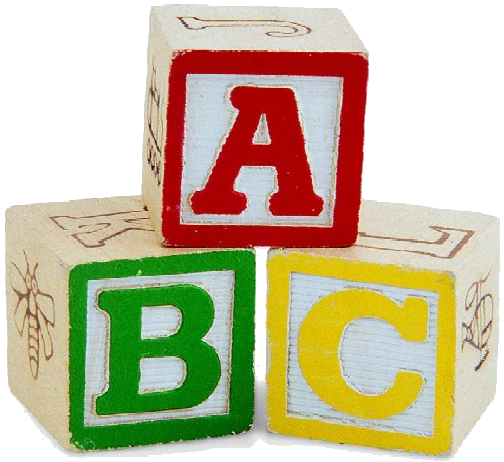
- Prevent IMS outages due to external factors
  - Failures of other system components
  - Environmental impacts
- “Bulletproof” System Recoverability
  - Smooth restarts with no data loss
  - Successful failover options
- Focus on outage prevention
  - Synchronization with hardware, microcode, middleware
  - Improved end-to-end testing
- Dedicated IMS RAS team focusing on IMS “self healing” and recoverability
- Recent experiences – hundreds of distributed servers vs IMS



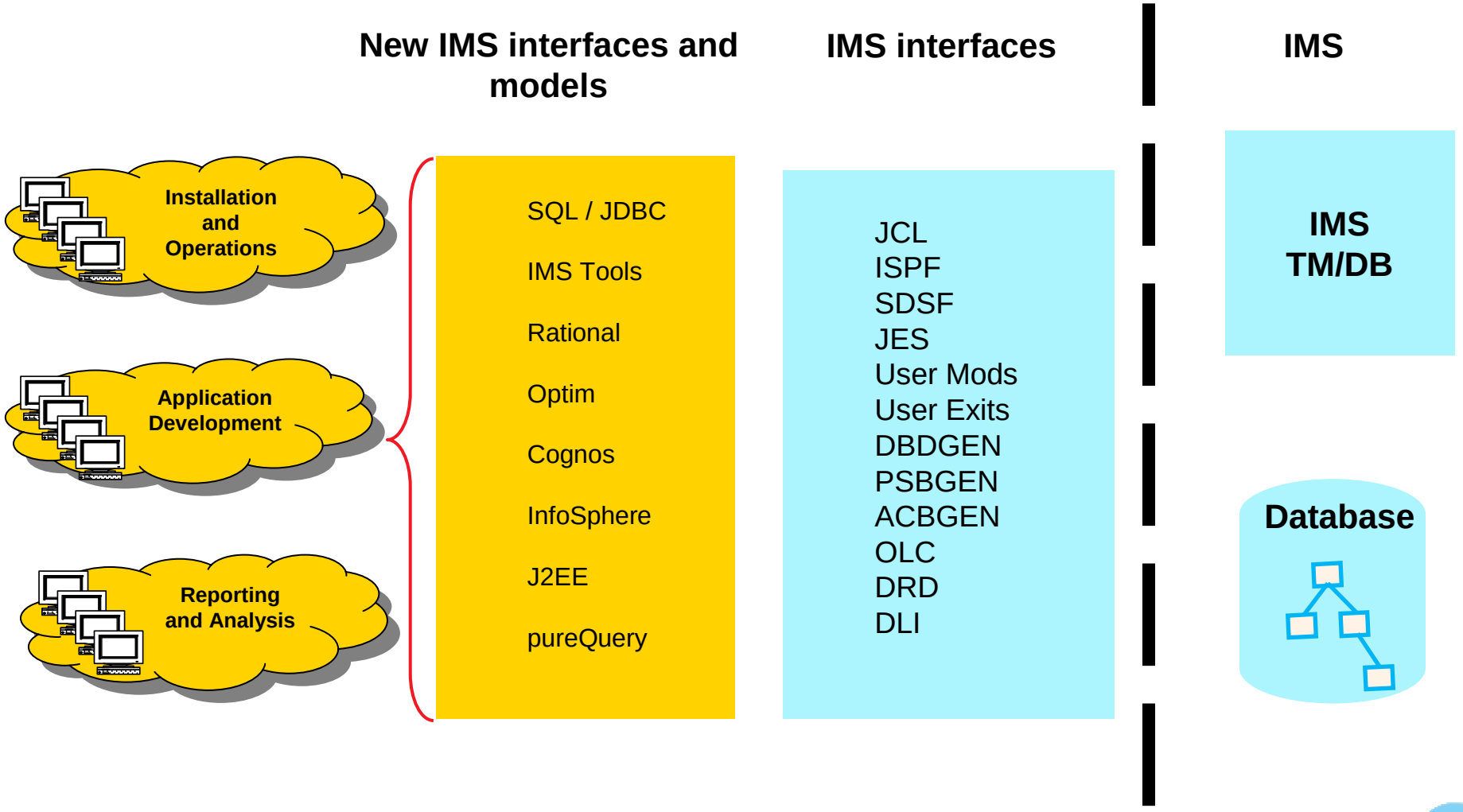
Resilience: the ability to bounce back from and successfully adapt to adversity

IMS Simplification

- More intuitive UIs and interfaces to talk to IMS
  - Eclipse based tooling for Application Development
  - SQL support from Java with Open Database – IMS 11
  - More consistency with z/OS, CICS, DB2, Omegamon for IMS etc for Operational Interfaces
- Reduction of planned outages and manual tuning
  - Online Reorganization – IMS 9
  - Dynamic Resource Definition – IMS 10
  - Database Quiesce – IMS 11
  - Dynamic allocation of ACBLIB data sets – IMS 11
  - Dynamic Database Buffer Pools – IMS 12
- Help address the IMS skills availability issues
  - Use industry available Systems Admin and AD skills



IMS Simplification Strategy

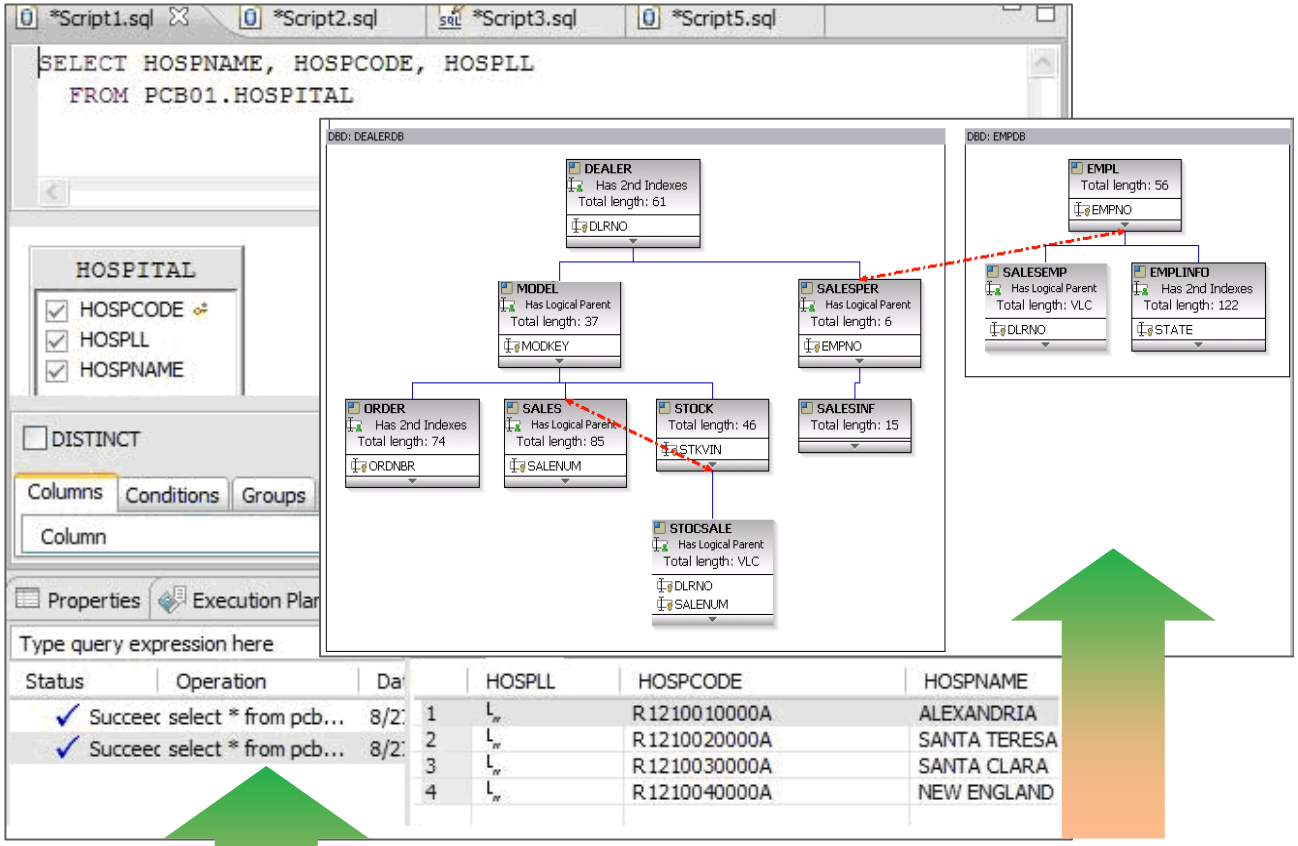


Reduce the need for special, in-depth IMS skills

IMS Explorer…Simplifying IMS application development !

Graphically-driven editors to display and update IMS program and database definitions

Graphical interface to easily access and manipulate IMS data using standard SQL



Generate SQL to access IMS data

See database relationships
Change DBD and PSB definitions

Rapid IMS Application Development

- Extending IMS Application Development to Business Analysts
  - Make decisions based on up-to-the-minute data
- Business Rules
  - ILOG BRMS support – code generation
- Mashups
  - IMS Web 2.0 Solutions for Mashup Center
  - Available in V10 for IMS TM feeds, IMS 11 for IMS Data feeds
  - Ability to easily integrate multiple RESTful services, widgets, data
- COGNOS
  - Real time query of IMS data
  - Business analyst with no IMS skill can make decisions based on data supplied by IMS

Check out our IMS demos!

- The new face of IMS, built on Eclipse framework
- Gain a relational view of IMS data
- Import, model, and edit IMS database and program definitions
- Build SQL statements to use with IMS data

- Sample Mobile IMS App
- IMS clients can use the technology to create a branded app or license data to sell new services

Special Offer for IMS Customers

- Mashup Center V2 offered to IMS customers for free!
- Quickly and easily create composite applications using IMS data and transactions

IBM continues to provide enhanced solutions across our wide portfolio of products for simplified integration and management of new and existing IMS applications and data

Infrastructure Investment for the Future

- Parallel RECON access – IMS 10
- VSCR – items in each version
  - 24 bit to 31 bit CSA/private
  - CSA to private
  - 31 bit ECSA to 64 bit
- Repository – IMS 12
- WADS/logger re-write – IMS 12
  - More efficient, better performance
- MSC over TCP/IP – IMS 12
  - New kind of MSC link, measured nearly 11K trans/sec!
- Connect to Connect – IMS 12
  - Next extension of connectivity between IMS systems

What's Next

Future Considerations

- IMS Database revitalization
  - Dynamic sizing of DB fields
  - Eliminate unload/reload
  - Store new types of data
- Elimination of gens and planned outages
- Continue focus on Usability & Simplification
  - Expanded SQL support – COBOL, PL1
  - Web based GUI for operational access
- Catalog for storing IMS DB metadata and artifacts
- Direct access from .NET, other distributed platforms
- Huge emphasis on cost savings – lower CPU, offload

IMS Customer Sessions at IOD 2011

Company	Session number and Topic	Speaker	Date & Time
Major US Insurance Company	IMS 11 Open Database for Java Apps IMS-2912	Daniel Galvin Galvin Consulting	Monday 3:45 South Pacific D
CREDIT SUISSE	WSDL-First Web Services IMS - 1482	Georg Huttenegger Credit Suisse	Tuesday 11:15 South Pacific D
WELLPOINT	Wellpoint, IBM, and IMS Tools: A Collaborative Partnership IMS-1438	Javed Raja, Wellpoint Anthony Minichino, Wellpoint Regina Urquhart, IBM	Tuesday 11:15 Tradewinds F
Ford	Ford Builds Better Cars with IMS IMS-2806	Geeta Rayarapu, Ford Nancy Stein, IBM Keshav Rakshit, IBM	Tuesday 1:45 South Pacific D

More IMS Customer Sessions at IOD 2011

Company	Session number and Topic	Speaker	Date & Time
CATERPILLAR®	Application Modernization with IMS SOAP Gateway IMS-2890	Steve Clanton, Caterpillar	Wednesday 8:15 South Pacific D
BNP PARIBAS	Web Services Modernization: How to improve communication between distributed and z IMS-2821	Anne-Marie GRABETTE, BNP Paribas Eric BARTOLONE, BNP Paribas	Wednesday 10:00 South Pacific D
	Extreme Makeover! IMS-3601	Mary Innes, Westpac Kiran Challapalli, IBM	Wednesday 3:15 South Pacific D

Plus, don't miss:

- **3819 WSDL-First Special Interest Group *Wednesday 6:00 – 7:00 Shell Seeker B***
- **Our IMS Drop-in Labs featuring *IMS Open Database* and *IMS Callout*!**
- **Dan Wardman's Client Panel: *Mainframe Cost Savings Strategies*, Wednesday at 11:30 in Islander C**

A Special Invitation for System z Attendees

ROCK THE MAINFRAME

at the

HOUSE OF BLUES

Music Hall

Wednesday, October 26th 7:00 pm - 10:00 pm

Enjoy a night of southern hospitality with cocktails and cajun hors d'oeuvres.
Keep the party rockin' by taking a turn on the Rock Band video game.
Join your colleagues, conference speakers and key members
from your IBM System z team and GT Software

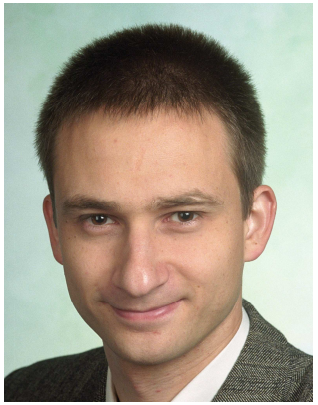
The House of Blues Music Hall is next door to the restaurant
on the casino level across from the Mandalay Bay Hotel.

Wear your
IOD badge
and Z pin
to get in

Congratulations to our new IMS Data Champions

Judy Asher
Architect Manager
Ford

Steve Clanton
Senior Tech Specialist
Caterpillar



Dr. Georg Hüttenegger
Enterprise Architect
Credit Suisse

Craig Oddy
Enterprise Architect
ScotiaBank

Presenting the
2011 IBM IOD Innovation Award
for the best solution
powered by IMS for z/OS

The Award Goes to?

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