



B90

IMS V9 and IMS e-business at Toronto Dominion Bank

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IMS
Technical Conference

Sept. 27-30, 2004

Orlando, FL

Disclaimers

- Your Mileage Will Vary

Key Business

- TD Canada Trust (Retail Banking)
- TD Waterhouse (Discount Brokerage)
- TD Security (Corporate and Investment Banking)
- TD Asset Management (Mutual Funds and Invest Management)
- TD Commercial Banking

Sysplex Environment

- Testplex – 5 Images + GDPS System
 - System Programmer environment
- Devlplex – 3 Images
 - Application development, QA
 - 3,551 MIPS
- Prodplex – 6 Images + GDPS System
 - Online, Production Batch, USS, etc
 - 11,322 MIPS

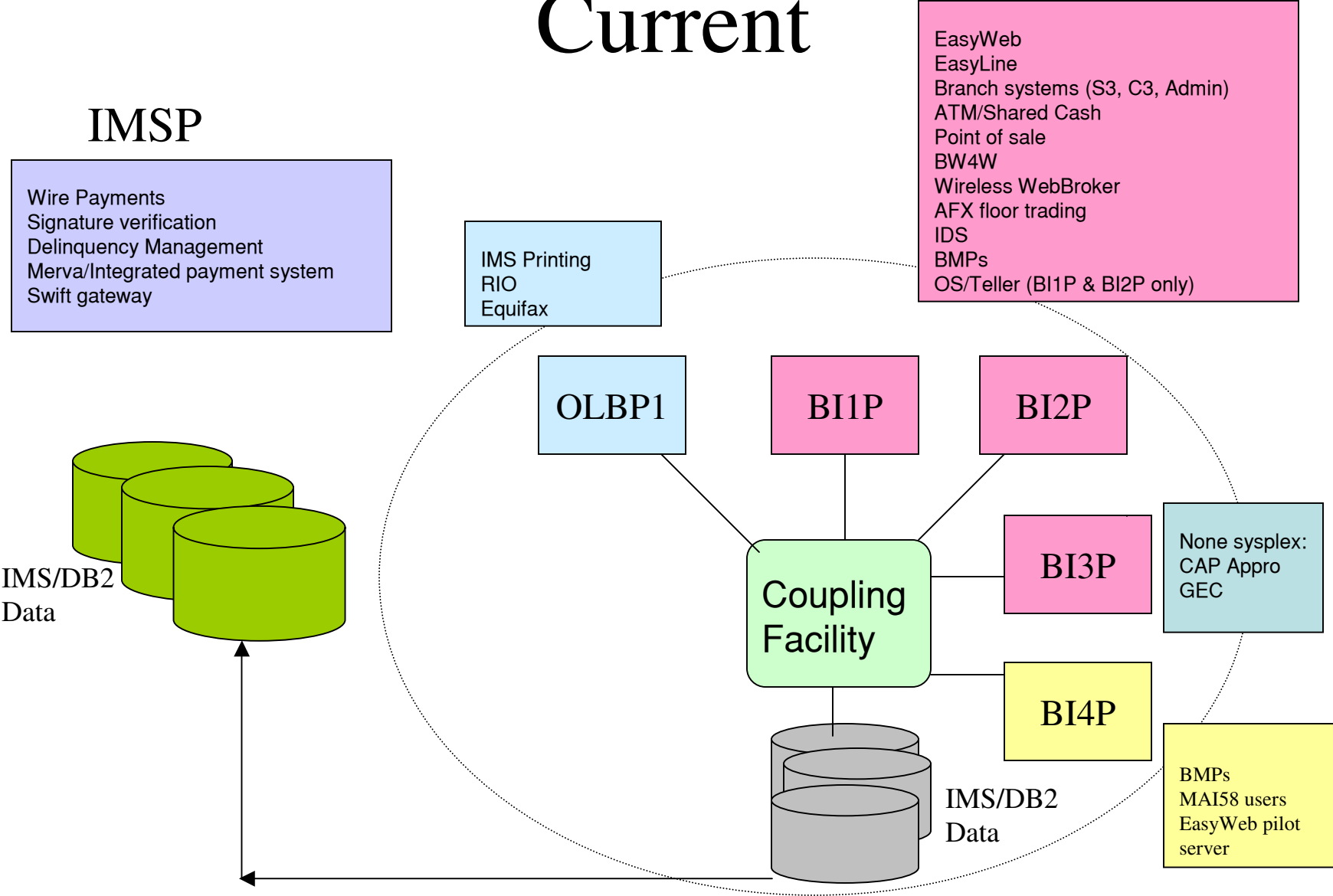
IMS Environment

- Significant change to IMS environment with MSDB removal and XRF removal
- ABM application used MSDB, conversion to SVSO/HDAM
- ABM application used to Logon to a XRF capable system for availability, now logon to GRname

IMS Environment

- ATM sysplex project
 - MSDB conversion
 - Link from each IMS to Tandem environment
 - Operational changes to manage scheduled outages for Tandem Links
 - Application changes to manage Tandem Links
 - ABM change to LOGAPPL to GRname
 - ABM failover works very well

Current



IMS Environment

- All (-0.02%) access to IMS controlled either through VGR or gateway routing
- Distribute Printing to come
- Address that 0.02% of application which is non-Sysplex

IMS Environment

- OI0T – System Programmer environment
 - 3 way datasharing
- SI0T – Development system
 - Standalone system, defined as 1 way sharing
- TI0T – Development system
 - 3 way datasharing

IMS Environment

- PI0P/PI0A – Small production system
 - 1 way datasharing system
 - MSC link to all Banking systems
 - 200-350K transactions per day

IMS Environment

- BI0P/BI0A
 - 5 way datasharing environment
 - 1 system to be removed soon
 - 99.98% workload portable on all systems
 - 42 million transactions on peak day
 - 34 million when we migrated to v8
 - 10 million when we migrated to v7
 - Peak at 1062 transactions per second

IMS Environment

- LU0, LU2, APPC, OTMA, MSC Links
- DEDB/SDEP, Full Function, Shared VSO
- All applications are tightly integrated, many touches IMS, DB2, MQ

Some notes on V9

- OLR
 - No large Full Function Database, no HALDB yet. But now with OLR, we will re-evaluate as incentive to move to HALDB
- IRLM
 - Running 2.1, partly due to timing of 2.2 availability during QPP startup

Some notes on V9

- SMU removal
 - Additional benefit due to number of objects in development systems
- Small enhancements of interest
 - DBRC type 4 SVC
 - DFSMRCL0
 - /DIAGNOSE
 - More than 32K Registered database

Some notes on V9

- IMSPLex Command Enhancements
- Option for not running RM
- OTMA Enhancements
- Multi-Area Structures for SVSO
- Various Java Items

Implementation Plan

- Migrate base code fast
- New function enable after migration

Program Products

- CA/ACF2
- CA/MICS
- Omegamon
- Strobe
- FileAid/IMS
- INSYNC
- Dumpmaster
- BTS
- DFR
- Database Tools
- PRF
- S/390 Automation
- LIU
- IMS PA

V9 Dates

- OI0T – January 2
- SI0T – March 24
- TI0T – April 21
- PI0A – June 9
- PI0P – July 4
- BI0A – July 13
- BI0P – August 8

General Experience

- Code Stability
- Support

Migration

- 30+ usermod refit
- DBRC SPE
 - Very smooth, SPE closed early
- SVCs, DFSMRCL0
 - Big benefit from the enhancements for test systems
- RECON upgrade
 - Concurrent, very fast
- Tools upgrade early, contact vendors early

Migration

- Easy installation
- AD environment testing
- Shakedown testing at migration night
- TPNS testing
- Rolling migration
- Performance – initial look shows 1-3%

Unfinished Business

- IMS Command Center rollout to production
- SMU elimination
- HALDB/OLR
- Regular validation of DRF testing

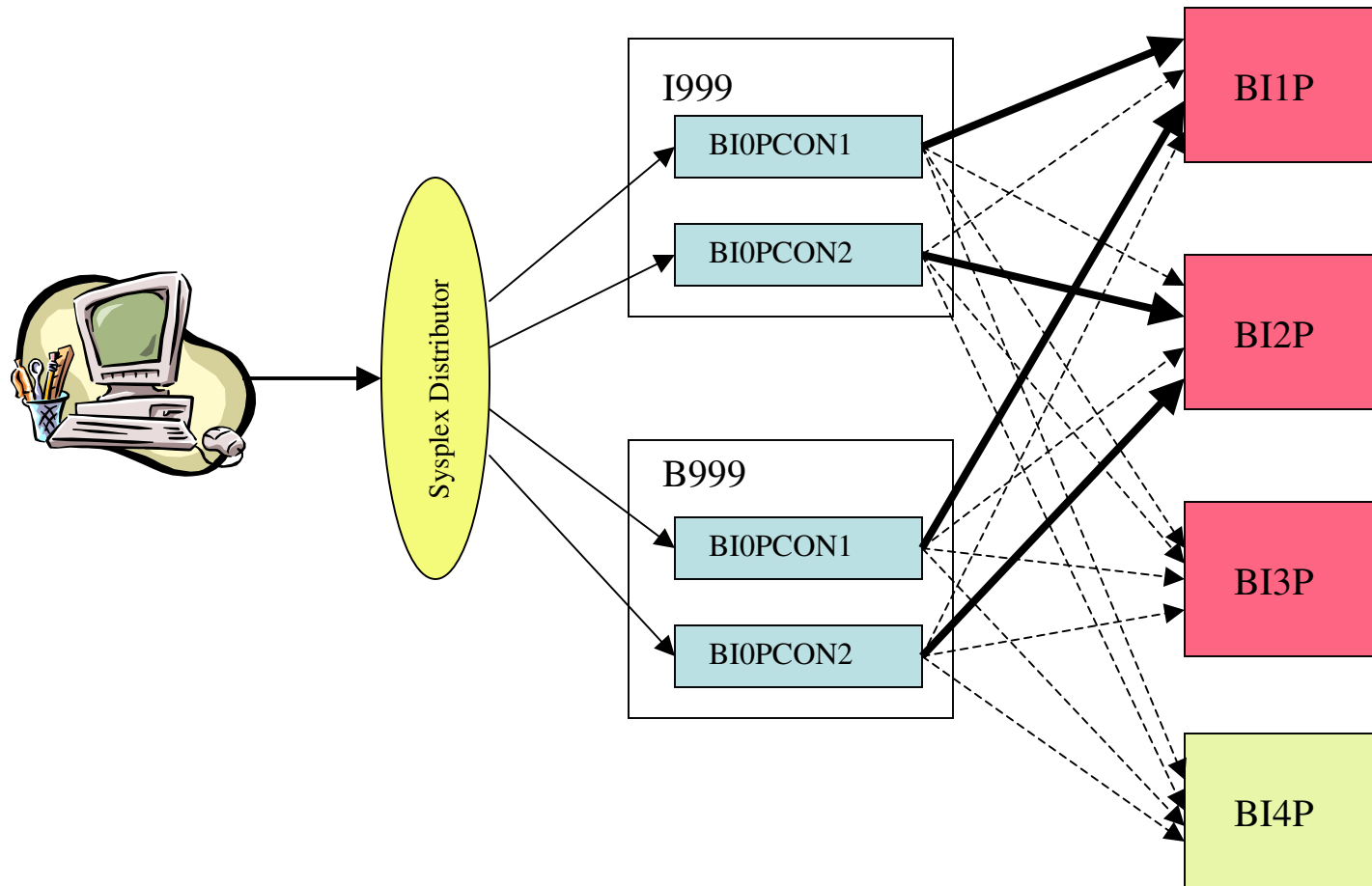
IMS Connect

- About 15-20% of IMS traffic now comes through MQ to IMS OTMA
- IMS Connect now IP path to IMS of choice
- First conversion of small application to get production experience
 - Currently have 2 small application
 - Plan to convert large application in next 6 month

IMS Connect

- Sysplex Distributor
- Datastore routing from exit for workload distribution and failover
- RYO Client
- CM0 Persistent Socket
- Socket Factory Management

IMS Connect



Unfinished Business

- Convert the larger applications to IMS Connect from MQ
- Switch to run the IMS Connect that comes with IMS V9
- Study program product to help with routing etc
- IC4J
- SSL

Futures IMS e-business

- IMS Java
- IMS XML/DB