Why IMS Still Matters.............

Dusty Rivers
Principal Technical Architect, GT Software

SHARE is an independent volunteer-run information technology association that provides education, professional networking and industry influence.
Agenda

- Why IMS still Matters
- IMS Challenges
- IMS as Client
- Data Virtualization (With IMS???)
- IMS CPU Reduction
- A technology peek…..
- End
IMS is the system of record

IMS systems for banks
(ATM, loans, account management)

IMS systems for insurance
(Claims & policy management)

IMS systems for manufacturing

IMS systems for finance

IMS systems for medical

IMS systems for Airline

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IMS and Fortune companies

- 75% of Fortune 1000 companies use IMS
- Thousands of companies globally use IMS
- Most users are not aware that information on their applications comes from IMS

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IMS and architects

The very reliability and transparency of IMS systems can make it nearly invisible to architects.

- Not using IMS to the fullest advantage
- They are not aware they can integrate new technology with IMS data and transactions.
- They may recommend other options, not knowing they can integrate without changing the underlying IMS applications
IMS =
Today’s business needs

• Self-service, Mobile/Cloud, BYOD, BI/BA, IoT
• Real-time access to enterprise data residing on any platform
• Customer and business focused IT (360 degree view)
• Build and deploy apps rapidly (App Mentality)
• Integration between IMS & distributed systems
• Big Data (IMS?)
• Data Virtualization(???)
IMS Complexity?

- Conversational Transactions
- Multiple Segment Output Messages
- IMS as Client
Conversational Transactions

Conversational transactions

Conversational transaction processing allows you to retain message continuity from a given terminal, even when the program that processes the conversation is not retained in storage throughout that conversation.
Conversational Transactions

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Conversational transaction processing allows you to retain message continuity from a given terminal, even when the program that processes the conversation is not retained in storage throughout that conversation.

- Message Continuity?
- Terminal?
- Conversations?
- Storage?
Conversational Transactions

- Run transaction (possible save state (SPA))
- Run another transaction (retrieve state SPA, save state SPA)
- Loop
- Run Transaction (end conversation)

- Issues?
IMS Conversational Tran as a Service

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Multiple Segment Output Transactions

- Run transaction
- Get first screen of output
- PA1 through pages, or get logical pages

- Issues ?
# Multiple Segment Output Transactions

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLZZ</td>
<td>DATA</td>
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</tbody>
</table>

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Multiple Segment Output Transactions

**Input**

| LLZZ | DATA |

**Output**

<table>
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Multiple Segment Output Transactions
Multiple Segment Output Transactions

Number of segments returned

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IMS as a client

• IMS applications talking to distributed applications

• IMS Applications calling mobile or cloud applications
• IMS Applications calling in native language (COBOL, PL/1)
• IMS Application does not worry about XML/SOAP
• IMS Application can be orchestrated
IMS talking to distributed apps

IMS Application

JAVA App

.NET APP
IMS talking to distributed apps

- COBOL/PL/I
- Data Types
- XML?
- SOAP?
- JSON?

IMS Application

Copybooks

JAVA App

JAVA Data Types

WSDL

WSDL

REST

.C# App

Data Types

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IMS applications in native language

IMS applications calling in native language (COBOL, PL/1)

- No new COBOL XML Coding
- No knowledge of SOAP or XML required
- Communication in native language (looks like subroutine call)
- Must be easy to create interface from IMS
- Must be Secure (SSL, AT-TLS, WS-*..)
- No requirement for ICAL
Ivory callable service wizard

- Imports WSDL from distributed service
- No knowledge of SOAP or XML required
- Generates the required COBOL/PL/I Artifacts
- Creates a project to handle delivery and transformation
- Generates a sample routine to guide the user
- No other software required
- Minutes instead of days
Data Virtualization provides simplified, integrated access to all data sources available throughout the enterprise. It allows for the retrieval and manipulation of the data regardless of structure or location. And, because the data never leaves its original location, there is no risk of data errors, version control issues or time delays.
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IMS CPU Usage Reduction

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IMS CPU Usage Reduction

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zXP is a performance enhancing technology that is focused on increasing online transaction throughput, while gaining additional benefits, namely:

- Reduced z/OS Monthly Licensing Costs
- Online transaction performance increase by up to 70%
- Simple product installation
- **No** IPL or major system configuration
- z/OS and COBOL IMS, NATURAL and HOGAN Compatible
- **NO** modification to transaction code or runtime
- **30%** Average CPU Reduction
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Q&A session

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