Why IMS Still Matters………….

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Director z Systems Software: IMS & CICS , GT Software

Agenda

- Why IMS still Matters
- IMS Challenges
- IMS as Client
- IMS with BI/BA
- IMS to/from the Cloud
- IMS and Cognitive

IMS is the system of record

GTSoftware®

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

IMS and Fortune companies

- Thousands of companies globally use IMS as their system of record
- Most users are not aware that information on their applications comes from IMS

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?**))
- Cognitive

IMS Complexity?

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

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.

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- Message Continuity?
- Terminal?
- Conversations?
- Storage?

- 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

- Run transaction

- Get first screen of output

- PA1 through pages, or get logical pages

- Issues ?

Multiple Segment Output Transactions

Input

LLZZ	DATA

Output

LLZZ	DATA

Multiple Segment Output Transactions

Input

LLZZ	DATA

Output

LLZZ	DATA
LLZZ	DATA
LLZZ	DATA
LLZZ	DATA
LLZZ	DATA
LLZZ	DATA
LLZZ	DATA
LLZZ	DATA

Multiple Segment Output Transactions

Multiple Segment Output Transactions

Number of segments returned

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 talking to distributed apps

GTSoftware®

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

IMS
Application

Copybooks

WSDL

JAVA
Data Types

JAVA App

WSDL

REST

C##
Data Types

.NET APP
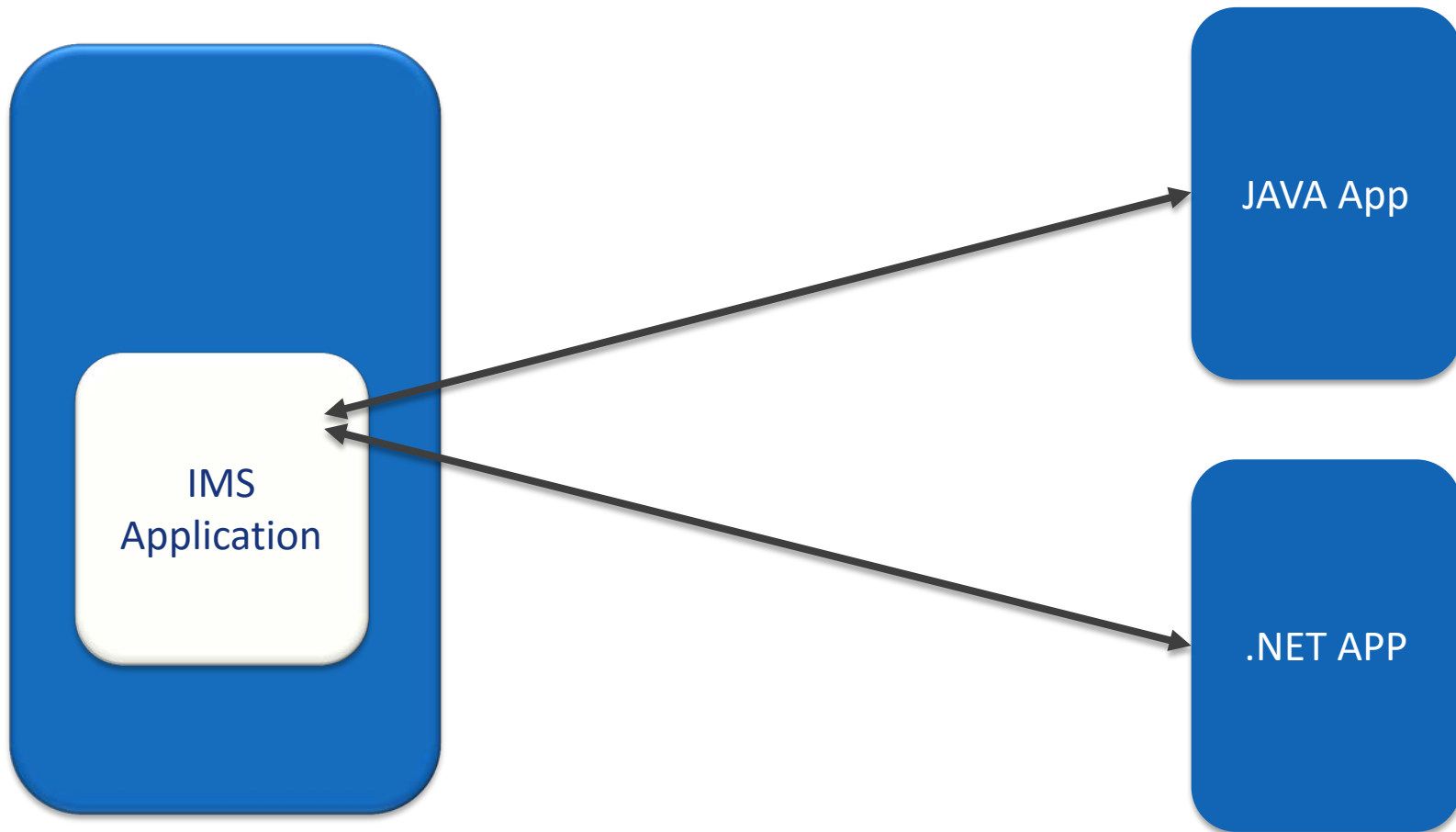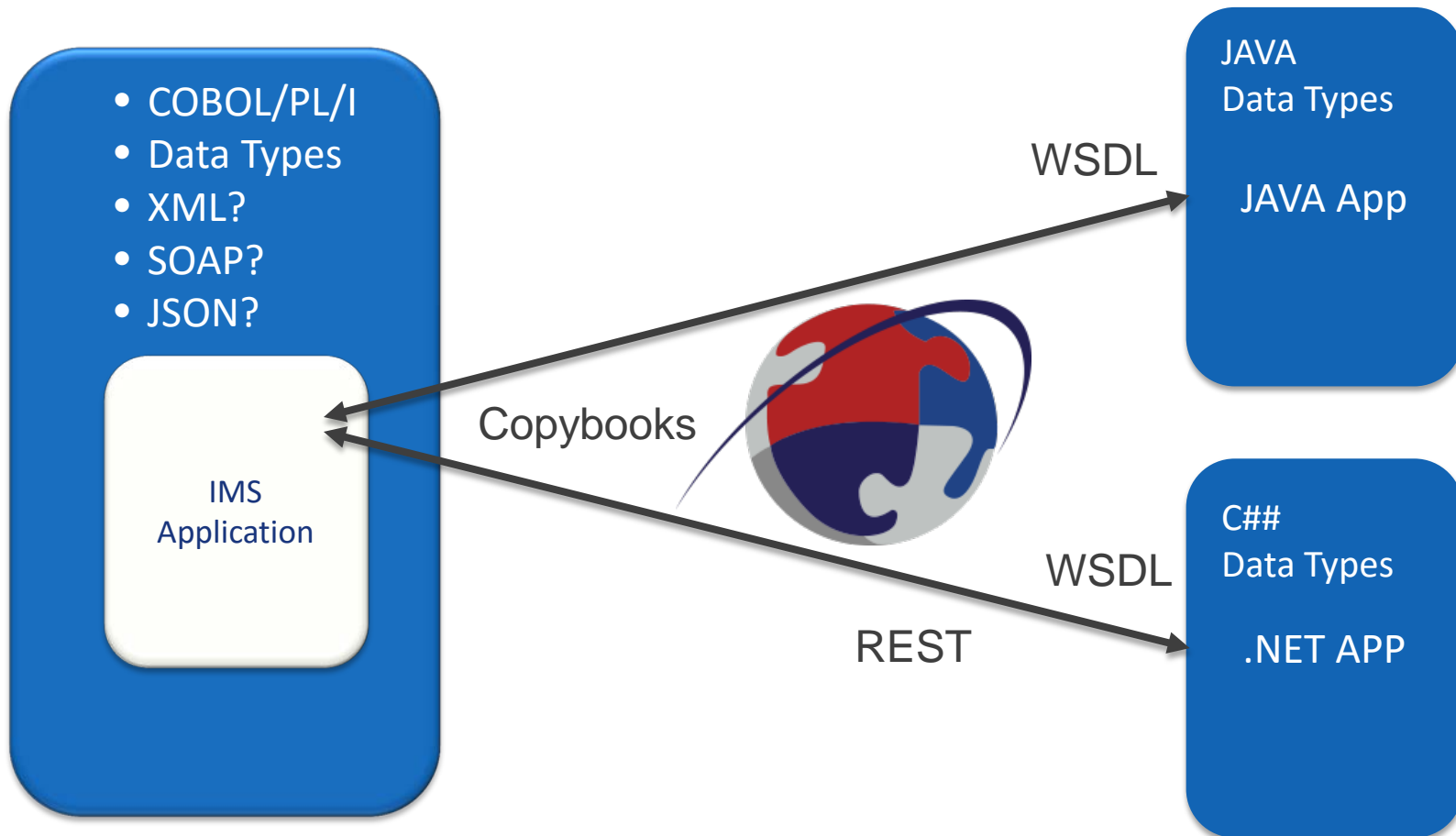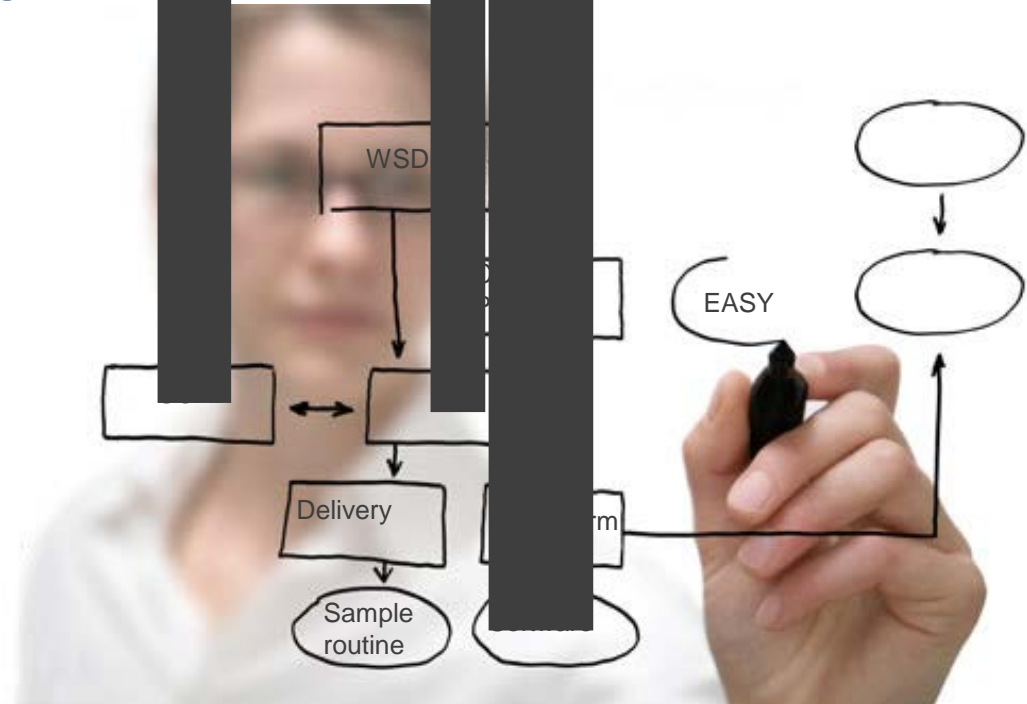
IMS applications as a client...

- 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-*.....)
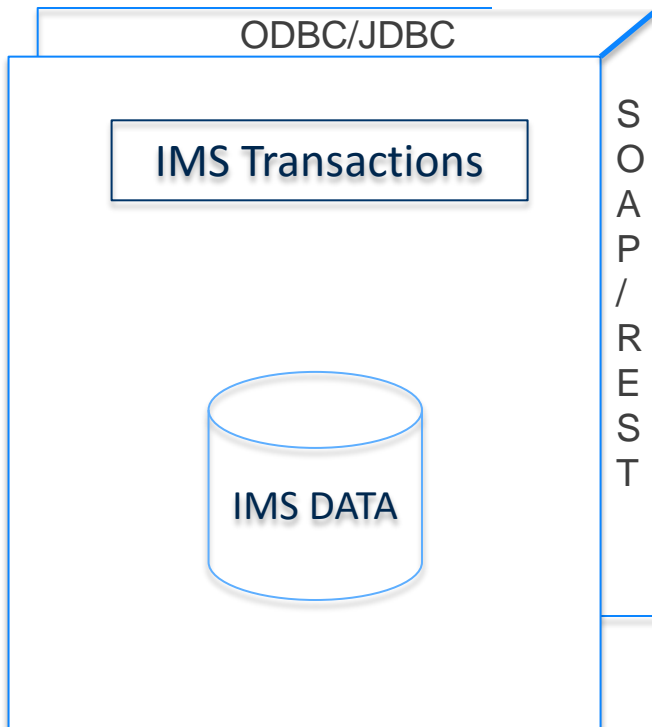- No requirement for ICAL

Ivory callable service wizard

GTSoftware®

- 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
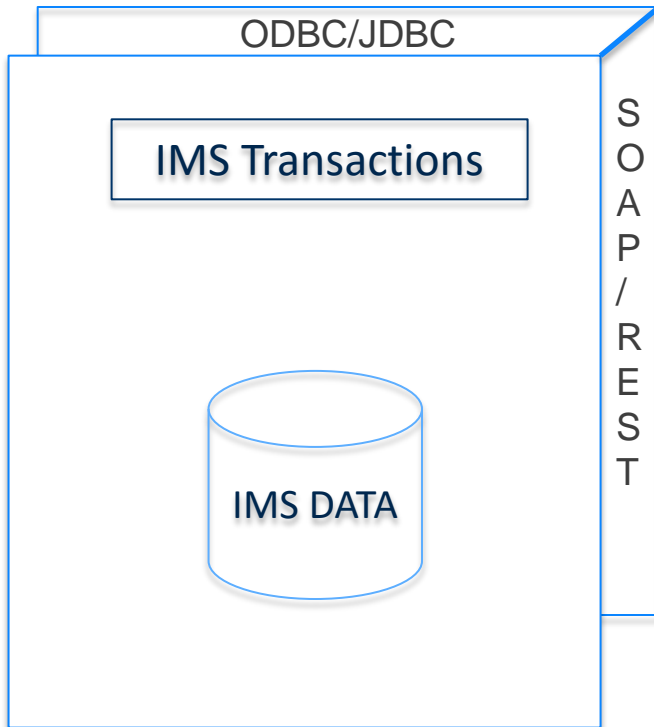- No other software required
- Minutes instead of days

WSDL

EASY

Delivery

Sample
routine

IMS with BI/BA

GTSoftware®

ODBC/JDBC

IMS Transactions

IMS DATA

S O A P / R E S T

BI (Business Intelligence)

BA (Business Analytics)

IMS with Cloud

IMS with Cognitive
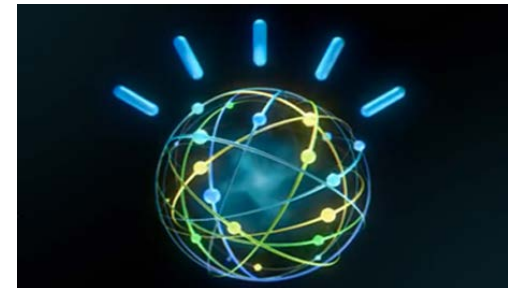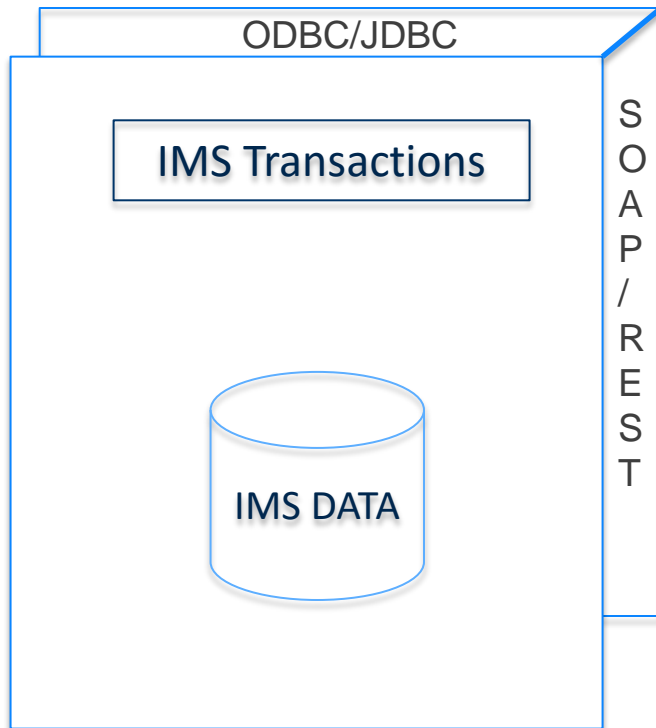
ODBC/JDBC

IMS Transactions

S O A P / R E S T

IMS DATA

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Q&A session

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