



# **IMS in the Connected World - *Why You Should Pay Attention!***

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1968

2013

Our world depends on it.

*Celebrating 45 years!*

# 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 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 come from IMS



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

- ❑ Not using IMS to the fullest advantage
- ❑ Unaware that 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



# Today's business needs

- ❑ Web self-service, mobile/cloud, BYOD
- ❑ Real-time access to enterprise data residing on any platform
- ❑ Integrated views of related information
- ❑ Customer and business focused IT
- ❑ Build and deploy apps rapidly
- ❑ Industry standards
- ❑ Integration between mainframe & distributed systems
- ❑ Common tools & skills





# IMS roadblocks

- ❑ The mainframe is not agile
- ❑ Multiple systems and interfaces
- ❑ Integration will be a challenge
- ❑ Legacy Data
- ❑ “IMS is Old”



- ❑ IMS Database Manager (DB)
- ❑ IMS Transaction Manager (TM)

## **Modernization scenarios using:**

- ❑ IMS data via ODBC/JDBC/Web Services
- ❑ Existing IMS transactions (business logic)
- ❑ Conversational IMS transactions
- ❑ Combinations of both
- ❑ IMS in conjunction with distributed systems
- ❑ IMS as a Client

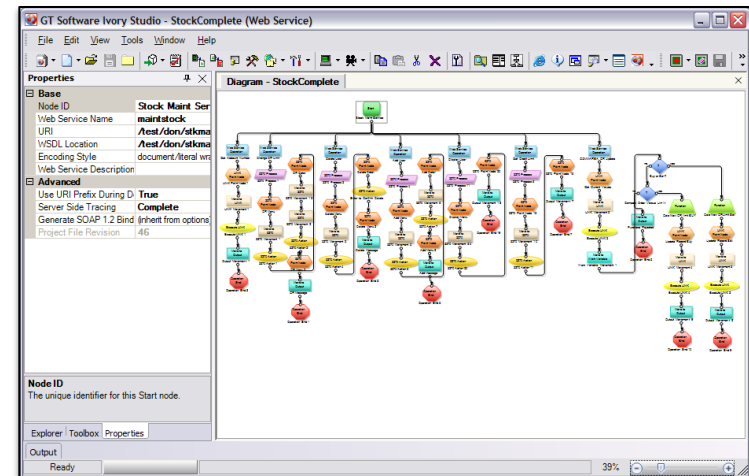
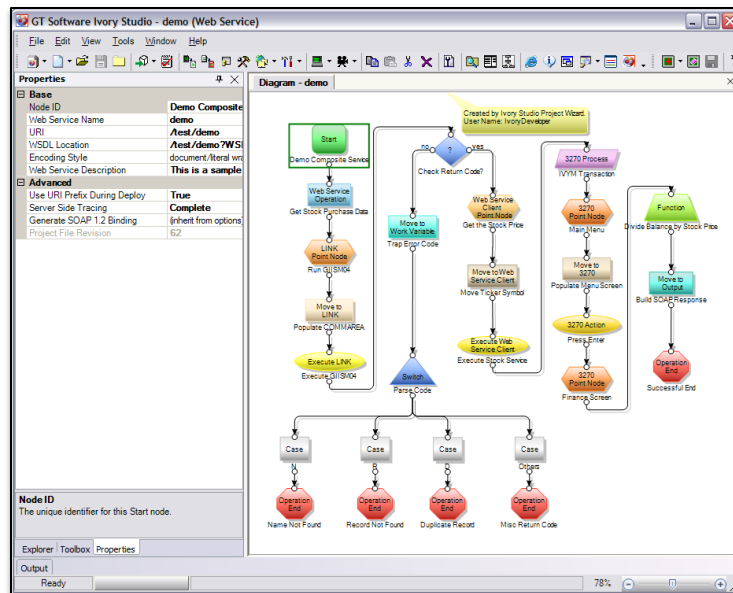


# Hard questions

- ❑ Can I get IMS data for use in the new systems?
- ❑ Can IMS transactions be easily incorporated into new systems?
- ❑ What about the others (CICS, IDMS/DC, IDEAL, NATURAL, etc.?)



- ❑ Rapid
  - Lightweight development tools
  - No coding or code generation required
- ❑ Proven
  - Banking, insurance, manufacturing
  - Thousands of services, millions of transactions



- ❑ Service enable IMS transactions
  - Including support for IMS conversational
  - Support for MFS as service definition
  - LTERM name if needed
  - Composite service support
  - MFS Mod 3
- ❑ Outbound support to any remote system
- ❑ Multiple Protocol Support (out of the Box)
  - SOAP, REST and JSON support
- ❑ Message “chunking”

# IMS interfaces

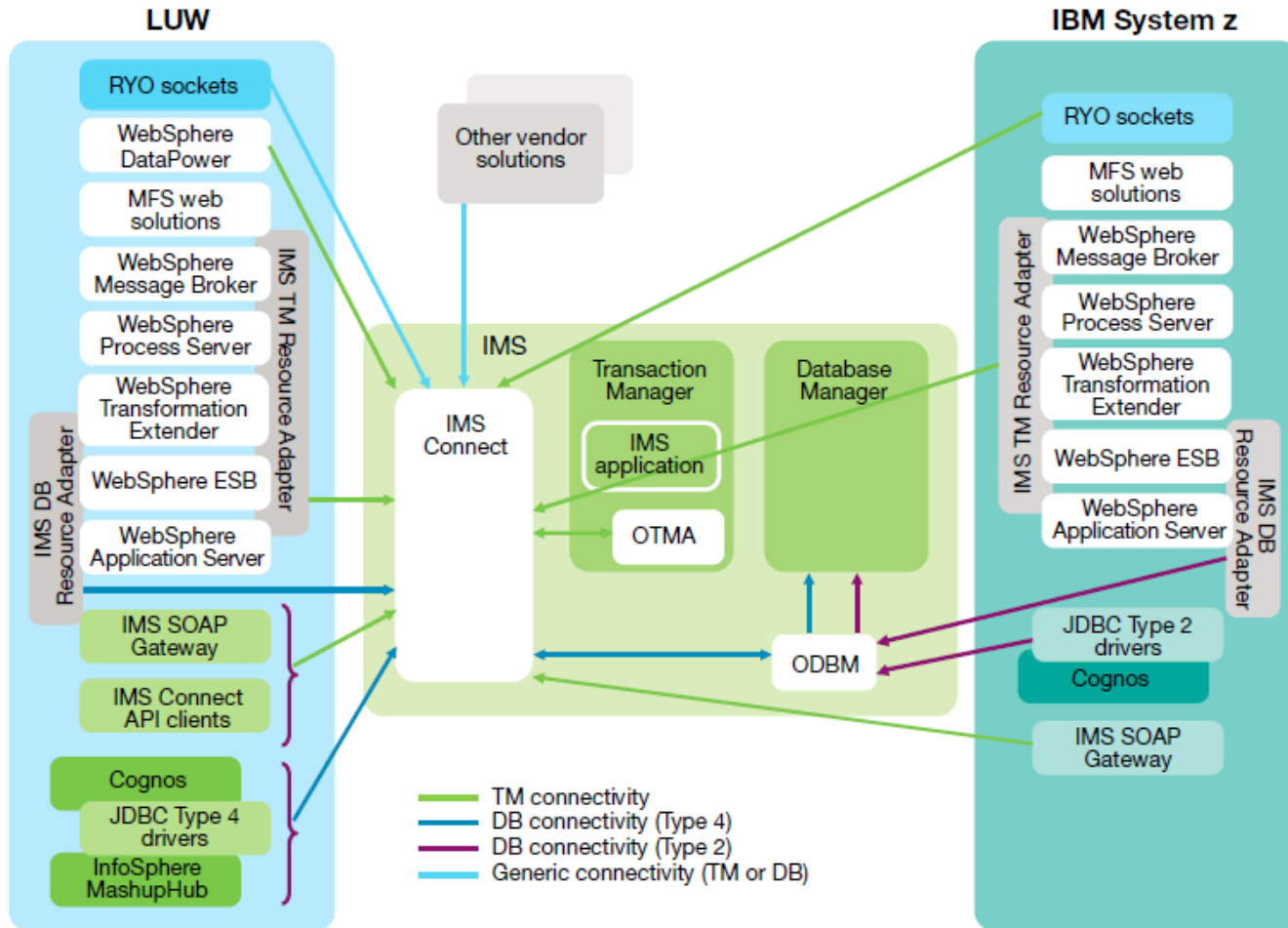
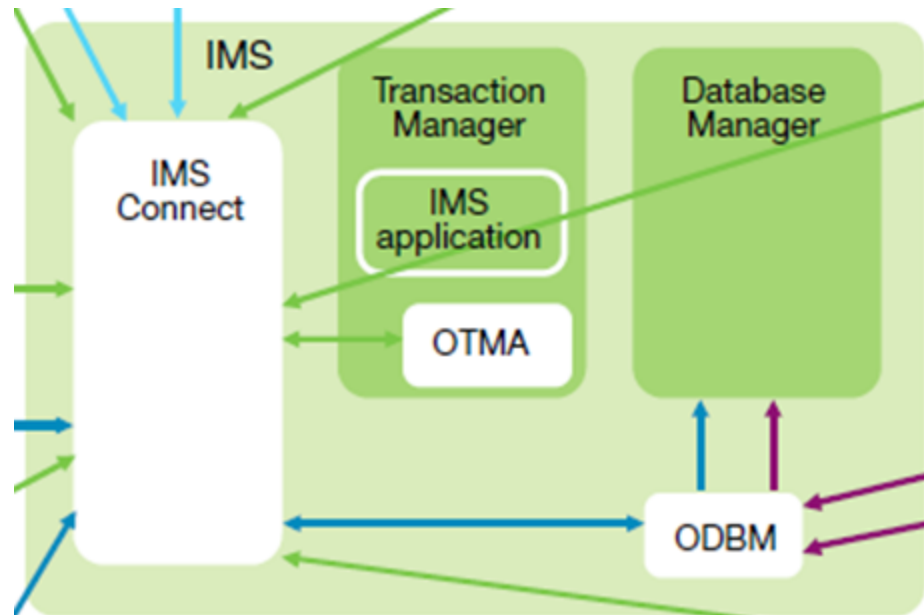
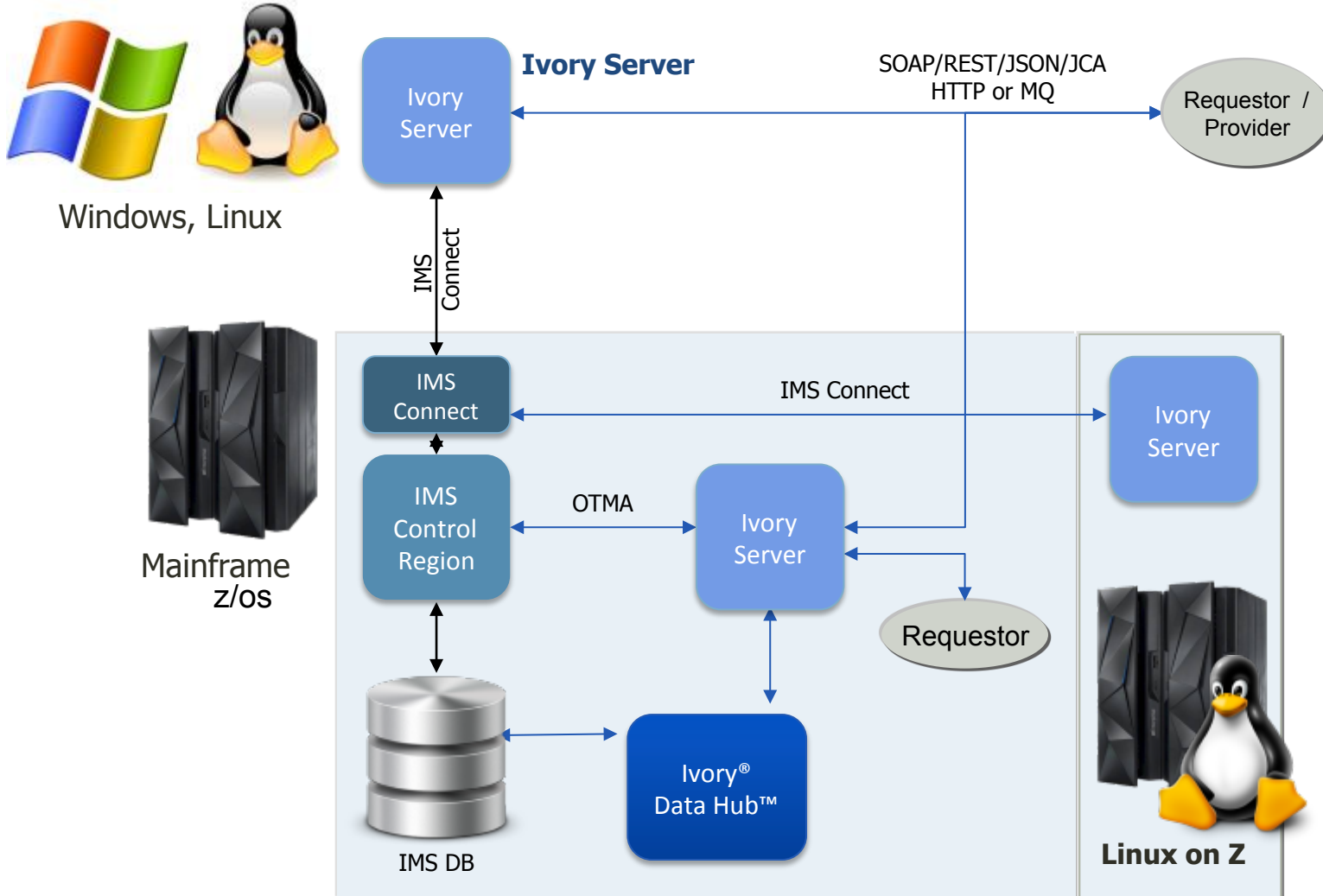


Figure 3: Role of IMS Connect in the enterprise architecture.

# IMS interfaces

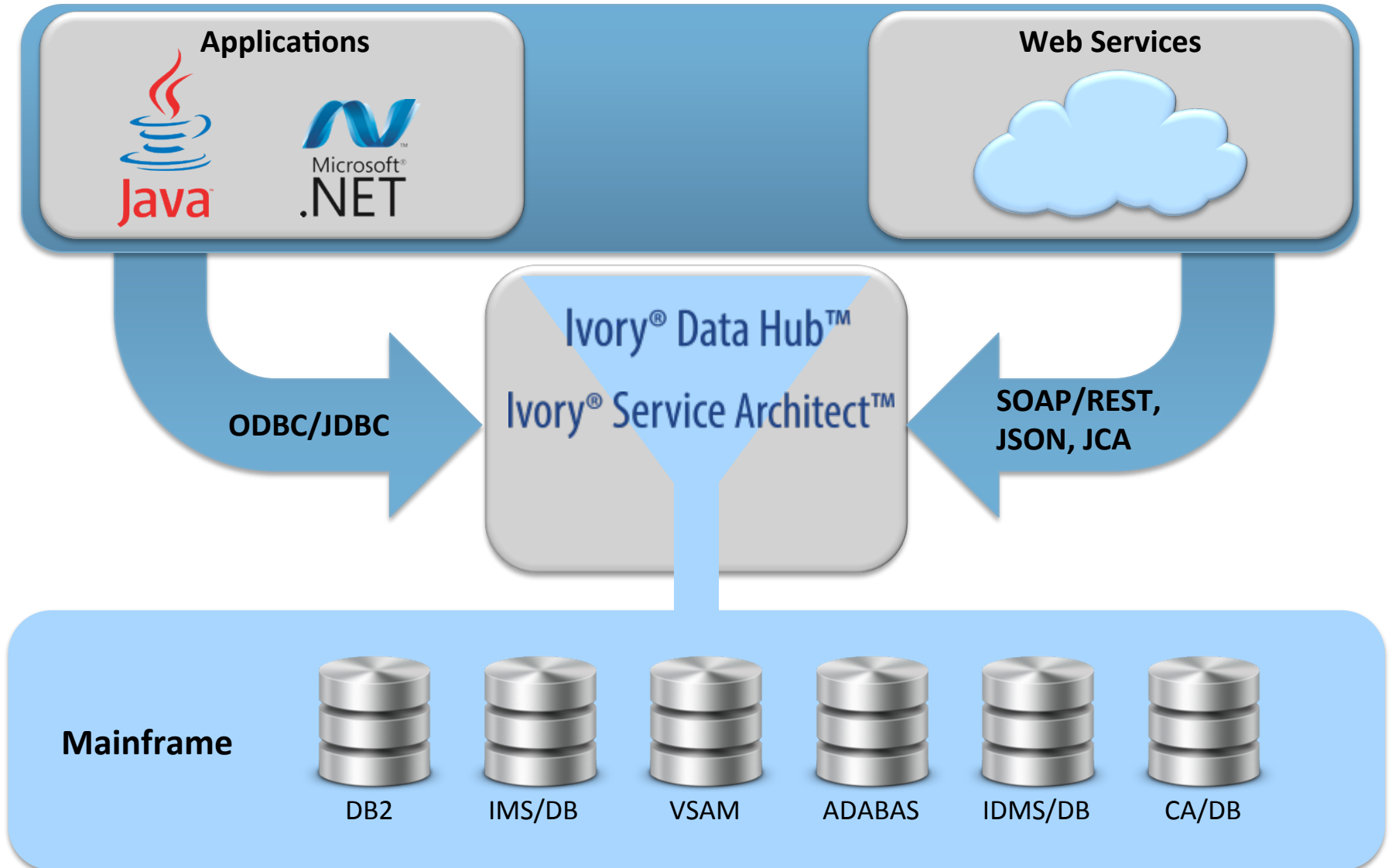


# Ivory runtime architecture





# Integrating mainframe data



- ❑ Data Hub Director™
  - Web-based control facility for the Ivory Data Hub
- ❑ Data Hub z/OS Server
  - SQL access to mainframe data - fast, easy access via ODBC/JDBC to data and apps on z/OS , (IMS)
- ❑ Client services
  - SQL access to distributed data - access data on MF and non-MF platforms from single SQL queries
- ❑ Transfer Server for Data Hub and deployment options
  - Data transfer with mainframe – automatic, bi-directional tasks which move data between non-MF and MF systems
  - Deployment options – deploy access through gateway or directly

# Why IMS as a client?



Insurance



Finance



Manufacturing



IMS reaching out to “new” mobile,  
cloud applications

- Mainframe applications to/from the cloud

## IMS Applications:

- Calling mobile or cloud applications
- Calling in native language (COBOL, PL/1)
- Do not worry about XML/SOAP
- Can be orchestrated



## □ New mainframe applications leveraging standards

- New services can leverage industry standards (IFX, SWIFT, ACORD, etc.)
- Applications can use company specified standards and mappings (XSD's, WSDL)
- Services can easily be mapped in Ivory® Studio that will handle difficult data types



# IMS applications calling other distributed apps

Must use existing resources

Must not require many products or installs



Must be easy to call

Must not be intrusive or cause changes



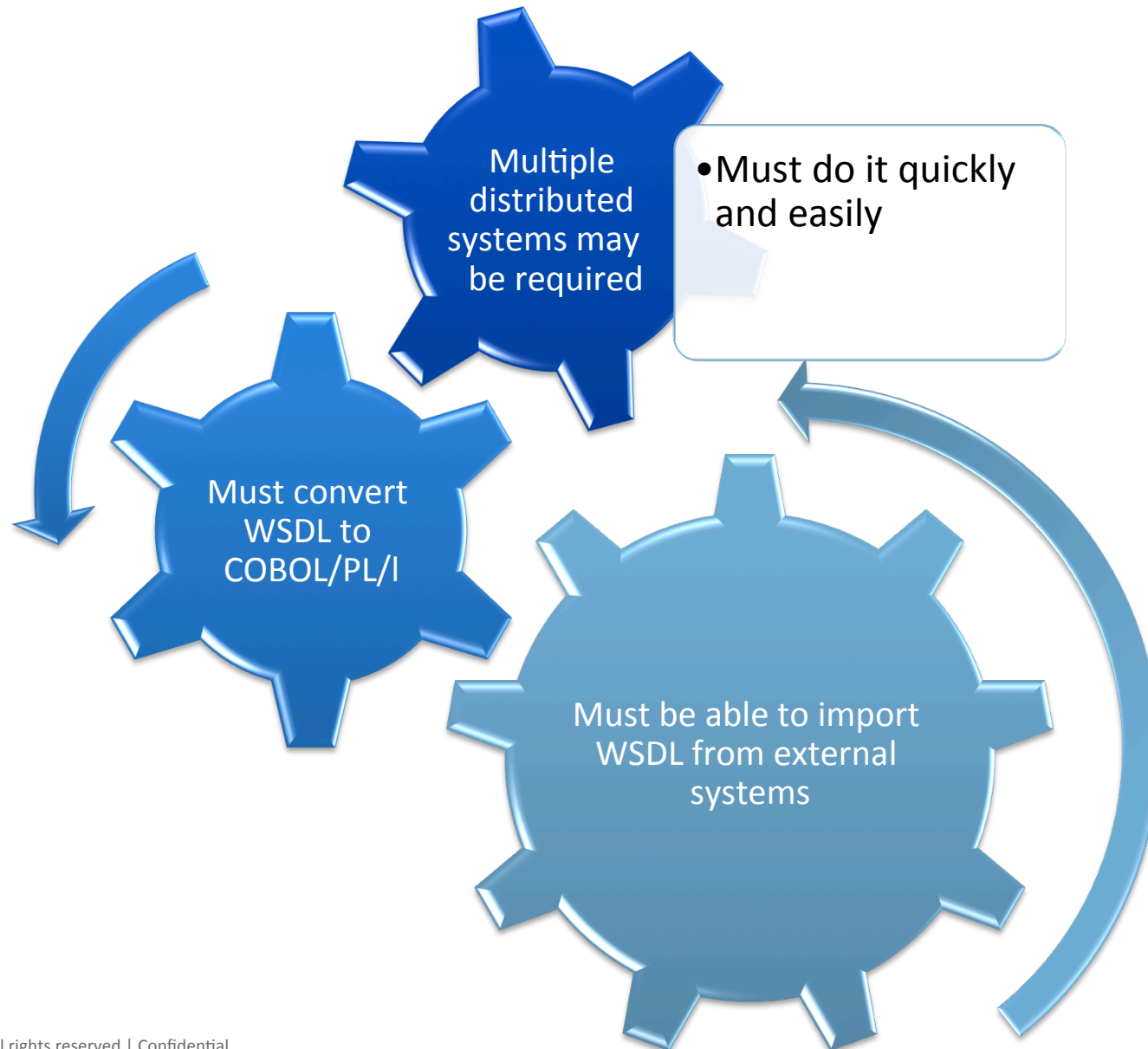
# Mainframe applications in native language



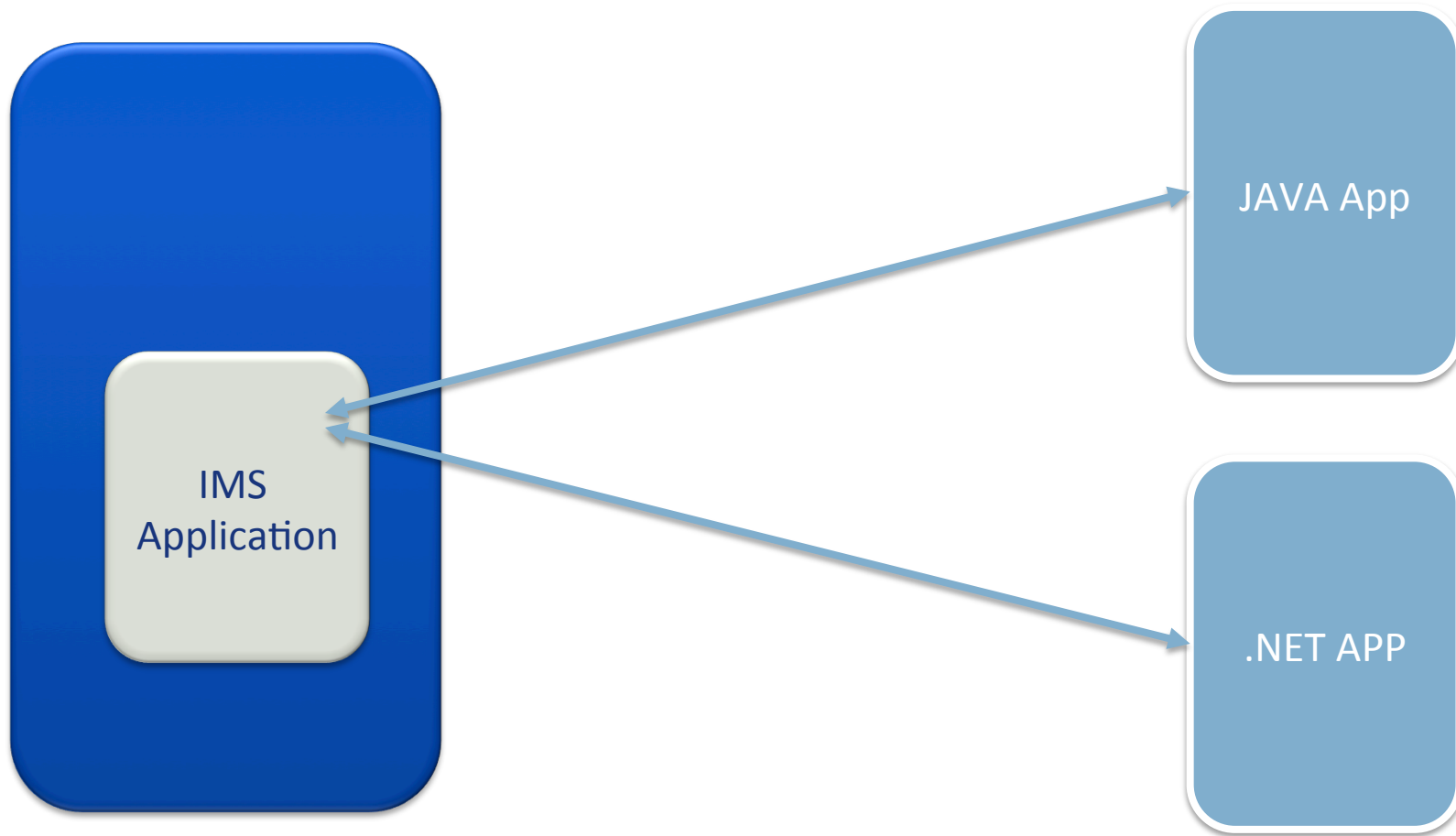
## Mainframe applications calling in native language (COBOL,PL/1)

- ❑ No new COBOL XML coding or knowledge of SOAP/XML required
- ❑ Communication in native language
- ❑ Easy to create interface from IMS

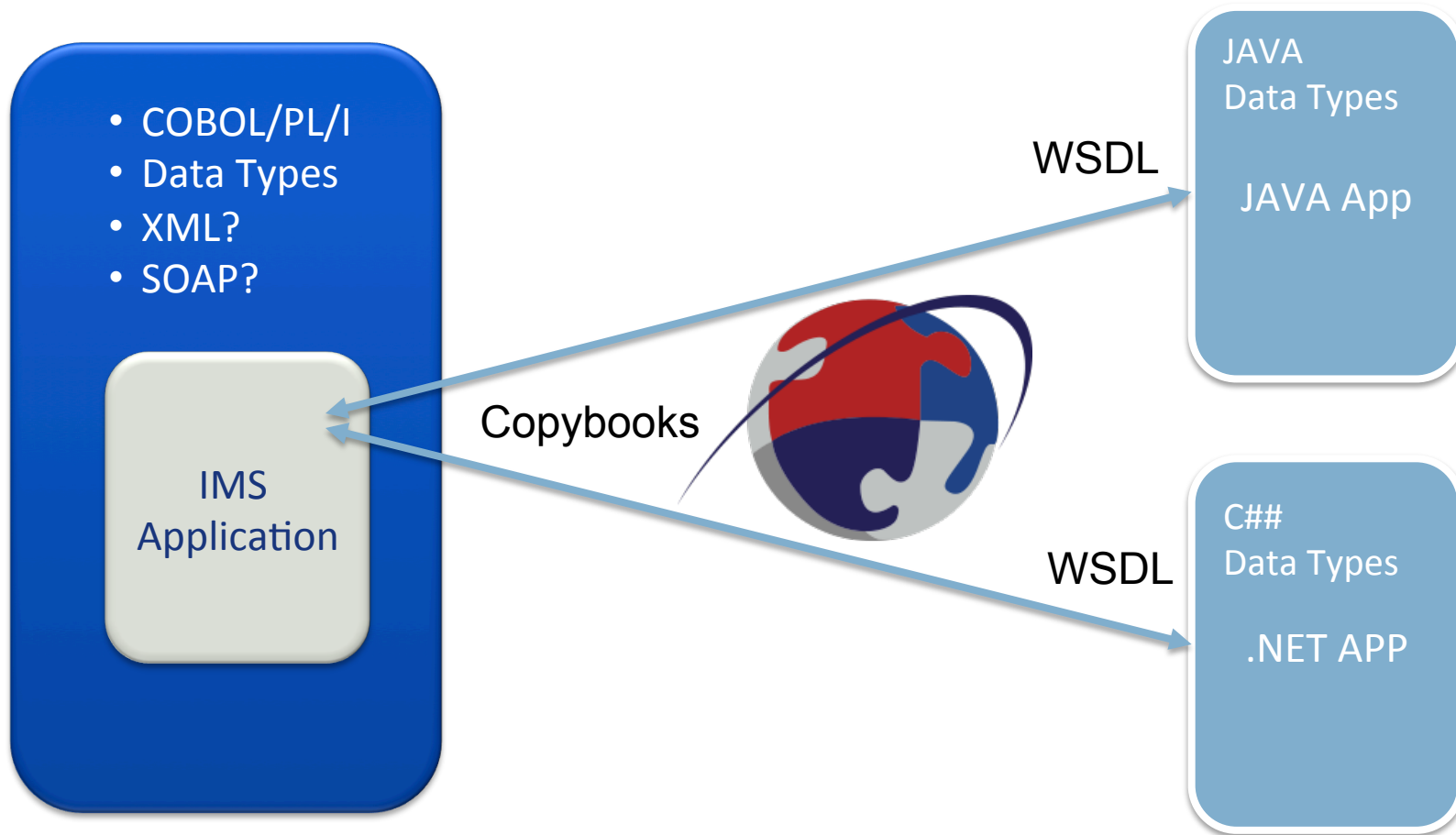
# Mainframe applications can be orchestrated



# IMS talking to distributed apps



# IMS talking to distributed apps



# 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



- New applications developed at the speed of business

## Mainframe based services:

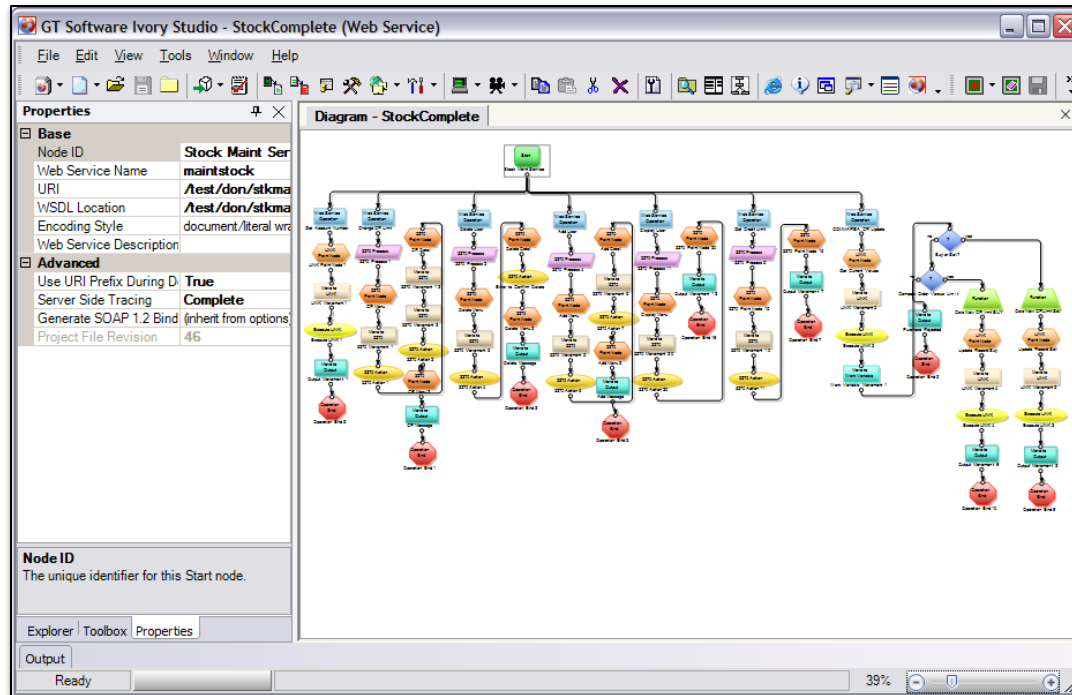
- Developed in minutes, as new business needs
- Immediately available, in easy drag and drop studio
- No new mainframe application code is generated





# At the speed of the customer

- ❑ No coding or code generated
- ❑ Rapid iteration gets the job done
- ❑ One click deployment: deployed to **mainframe** (CICS, Started task, z/Linux) or **off-platform** (Windows or Linux)
- ❑ Leverages z/Linux and specialty engines to *slash* costs



# IMS Summary



- ❑ It can easily be used as a client
- ❑ IMS applications can interface with new applications without knowing SOAP or XML
- ❑ No new software needed and it can rapidly call distributed systems



# Why enable IMS for mobile?

- ❑ Demand from clients and users, for BYOD
- ❑ Private app stores
- ❑ Your competition is mobile
- ❑ Saves money



# How can web enhance your business?

- ❑ Exposure
- ❑ Platform friendly
- ❑ Rich skill set
- ❑ Me too!





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