IBM

TXSeries for Multiplatforms, Version 6.1
The next generation of distributed CICS

SOA Integration

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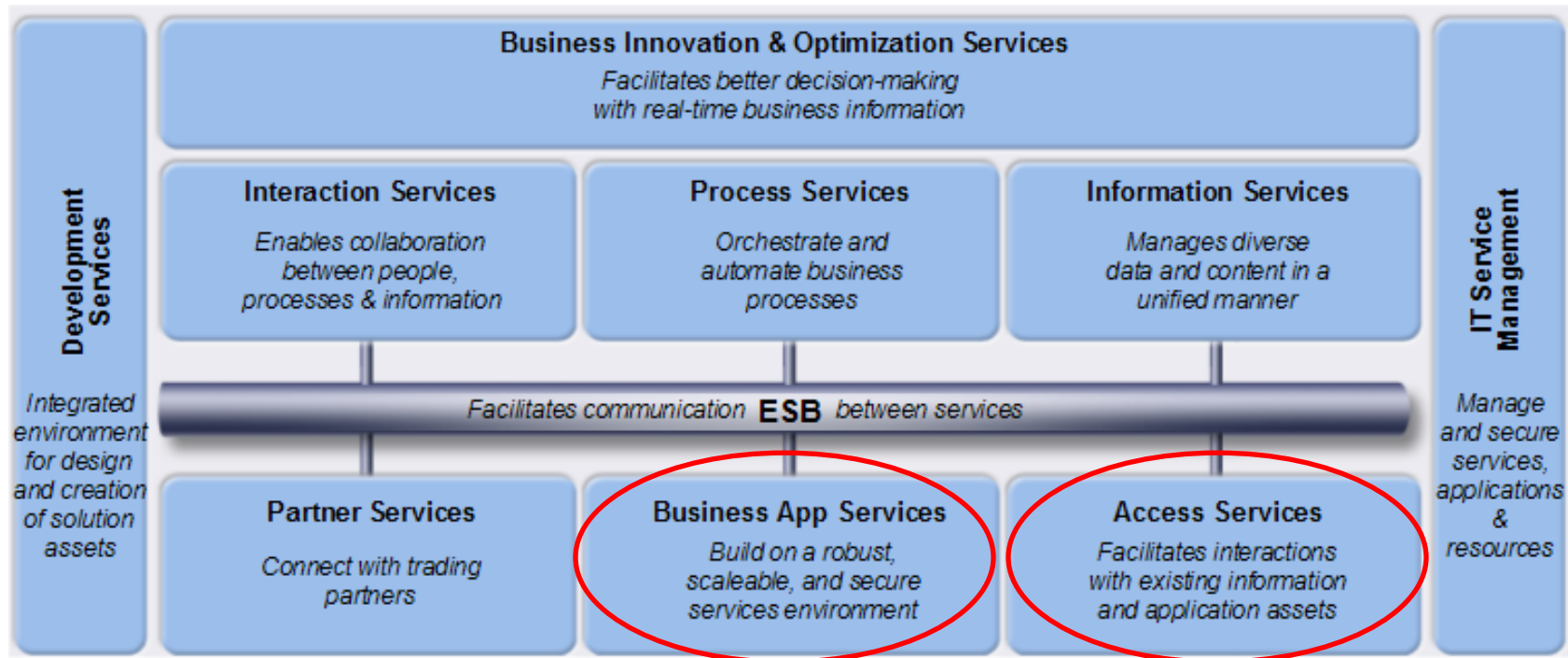
TXSeries V6
The Next Generation of Distributed CICS
www.ibm.com/CICS

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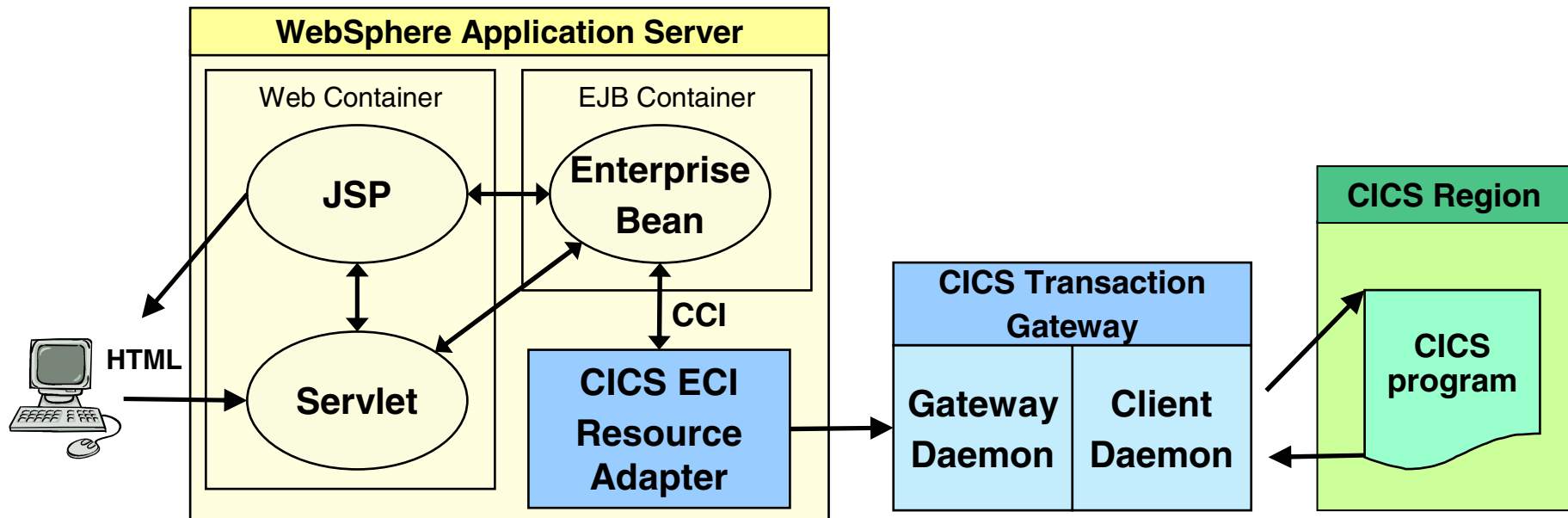
TXSeries as a component of your SOA

Distributed CICS Transaction Server

- Enabling end to end mixed language transaction services in support of **Business Applications**

- Full integration with CICS Transaction Server for z/OS

Transaction Integration Server

Providing integration and **Access Services** through

- JCA interfaces to J2EE based application servers

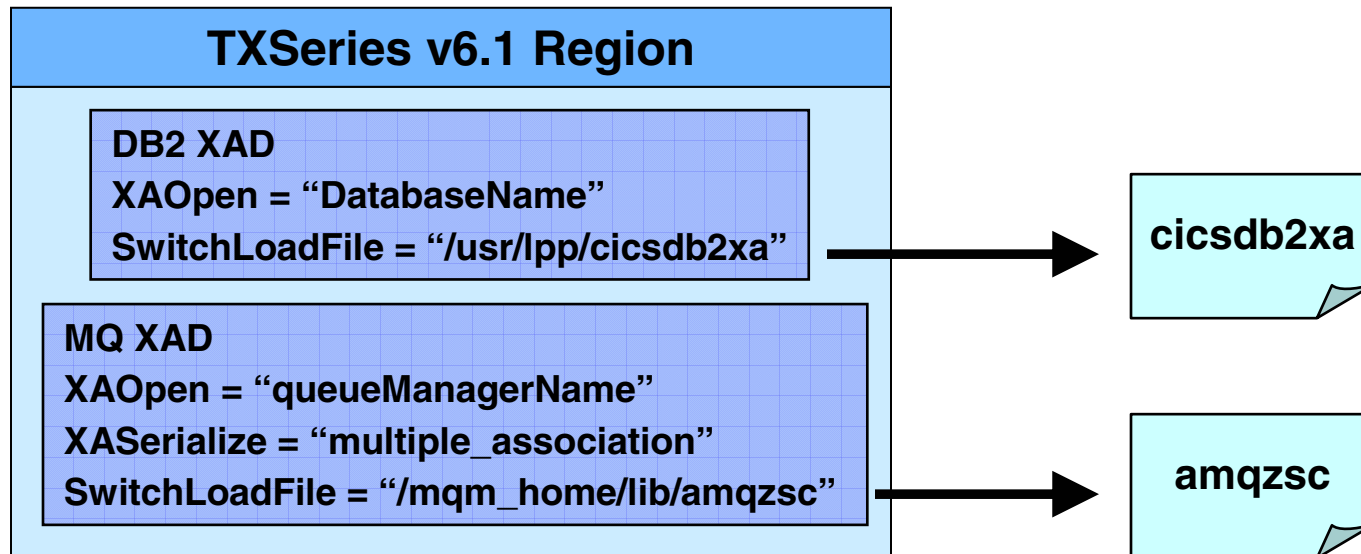- XA interfaces to databases and WebSphere MQ

SOA Integration with J2EE Application Servers

WebSphere Application Server

Web Container

EJB Container

JSP

Enterprise Bean

HTML

Servlet

CCI

CICS ECI Resource Adapter

CICS Transaction Gateway

Gateway Daemon

Client Daemon

CICS Region

CICS program

- CICS Transaction Gateway (CTG) provides an external interface to TXSeries
- CICS Resource Adapter allows J2EE applications to access CTG
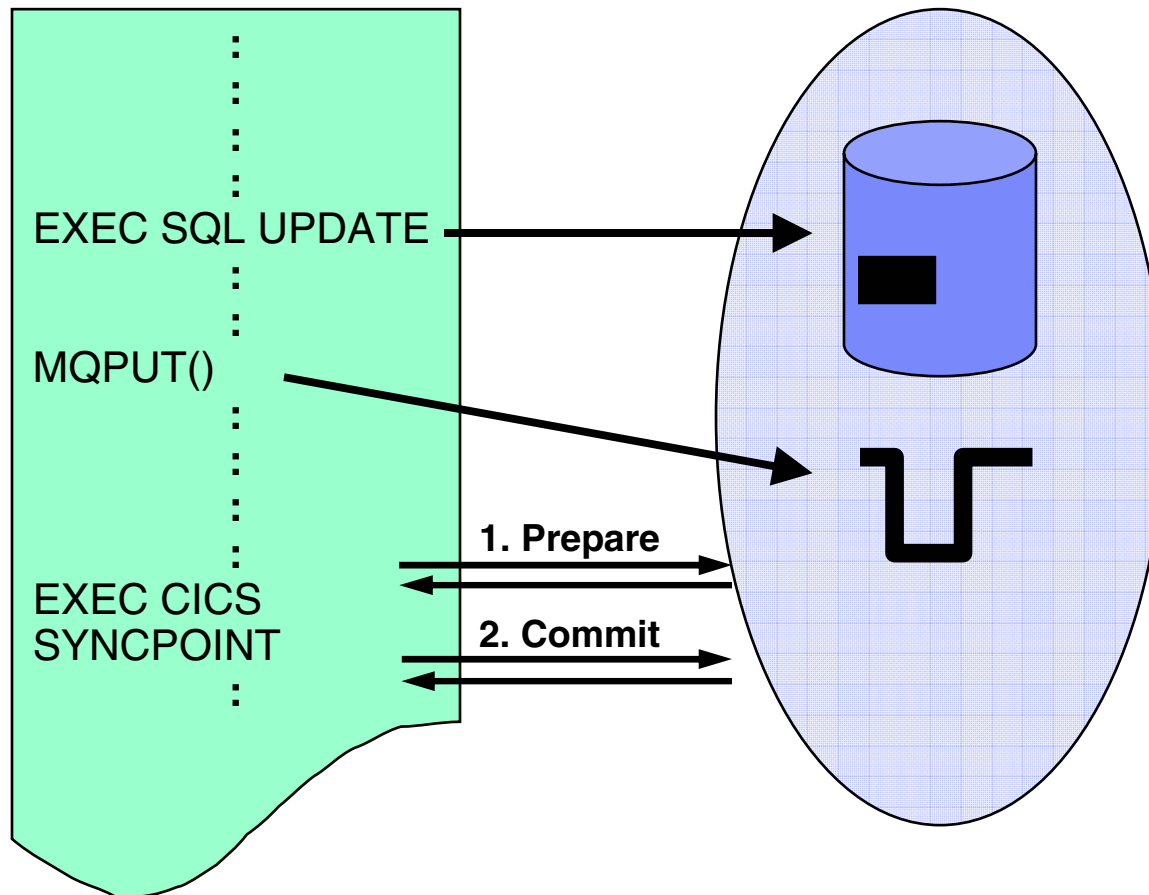
SOA Integration with XA Resource Managers
1. Prepare the CICS Region

TXSeries v6.1 Region

DB2 XAD
XAOpen = "DatabaseName"
SwitchLoadFile = "/usr/lpp/cicsdb2xa"

cicsdb2xa

MQ XAD
XAOpen = "queueManagerName"
XASerialize = "multiple_association"
SwitchLoadFile = "/mqm_home/lib/amqzsc"

amqzsc

1. Compile the supplied Switch Load File

    – The library interface between CICS and the resource manager (DB2 or WMQ)

2. Define the Switch Load File to CICS
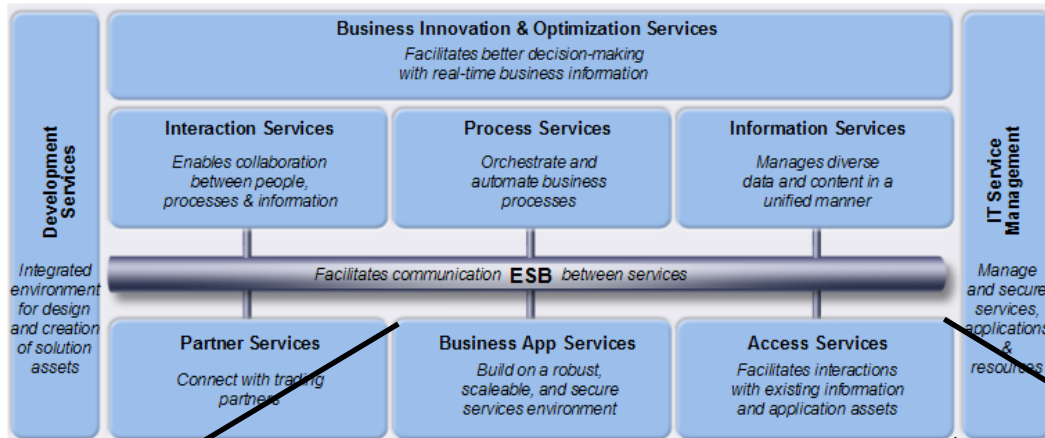
    – Create an XAD Stanza entry

SOA Integration with XA Resource Managers
2. Accessing the Resources

EXEC SQL UPDATE

MQPUT()

1. Prepare
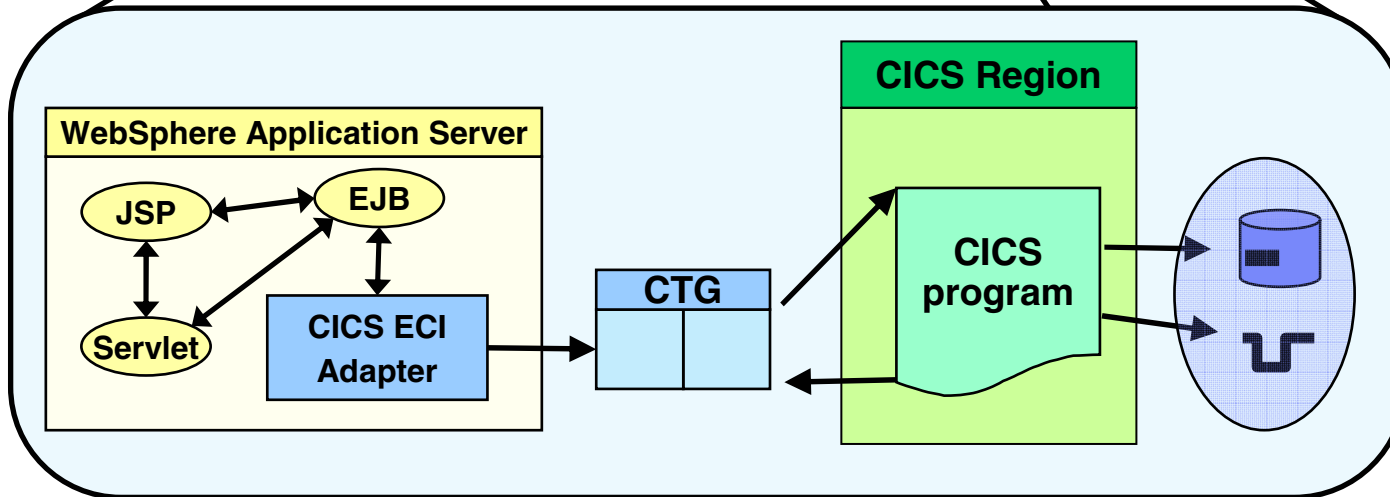
EXEC CICS
SYNCPOINT

2. Commit

- Update Resource Managers using native commands

- CICS transaction syncpoint will drive 2 Phase Commit processing in all Resource Managers (RM)

1. Prepare each RM in turn

2. Commit each RM in turn

TXSeries as a component of your SOA

- Full SOA integration is now possible using a combination of products

- Combination delivers a proven and robust solution

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Questions and More Resources

www.ibm.com/cics/txseries

Any Questions?

▸ Ask the IBM product teams

▸ Ask other TXSeries users on new forum

developerWorks.
TXSeries
Technical Forum

The Web site is the best place for up to date information:

▸ Announcement Letters

▸ Datasheets/Brochures

▸ Redbooks

▸ Whitepapers

▸ Presentations

▸ Technical Library

▸ And more….

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