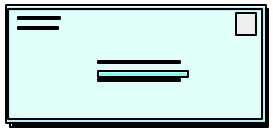
# WebSphere Data Interchange for CICS

## Architecture and
## Continuous Receive Capability



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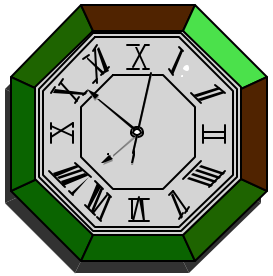
# WDI Initiation

User Entered Transactions

CICS
Transaction Server for OS/390



Time Triggered Transactions (ICE)

Background Events

- Started CICS Transactions
- CICS Program Links
- TDQ ATI Triggers

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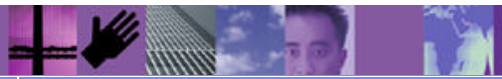
# WDI Initiation

## WDI can be started

- via a started task, START TRANSID('EDIB')
- via a link, LINK PROGRAM('EDIFFUT')
- via Automatic Task Initiation (CICS DCT)
- via EDIW



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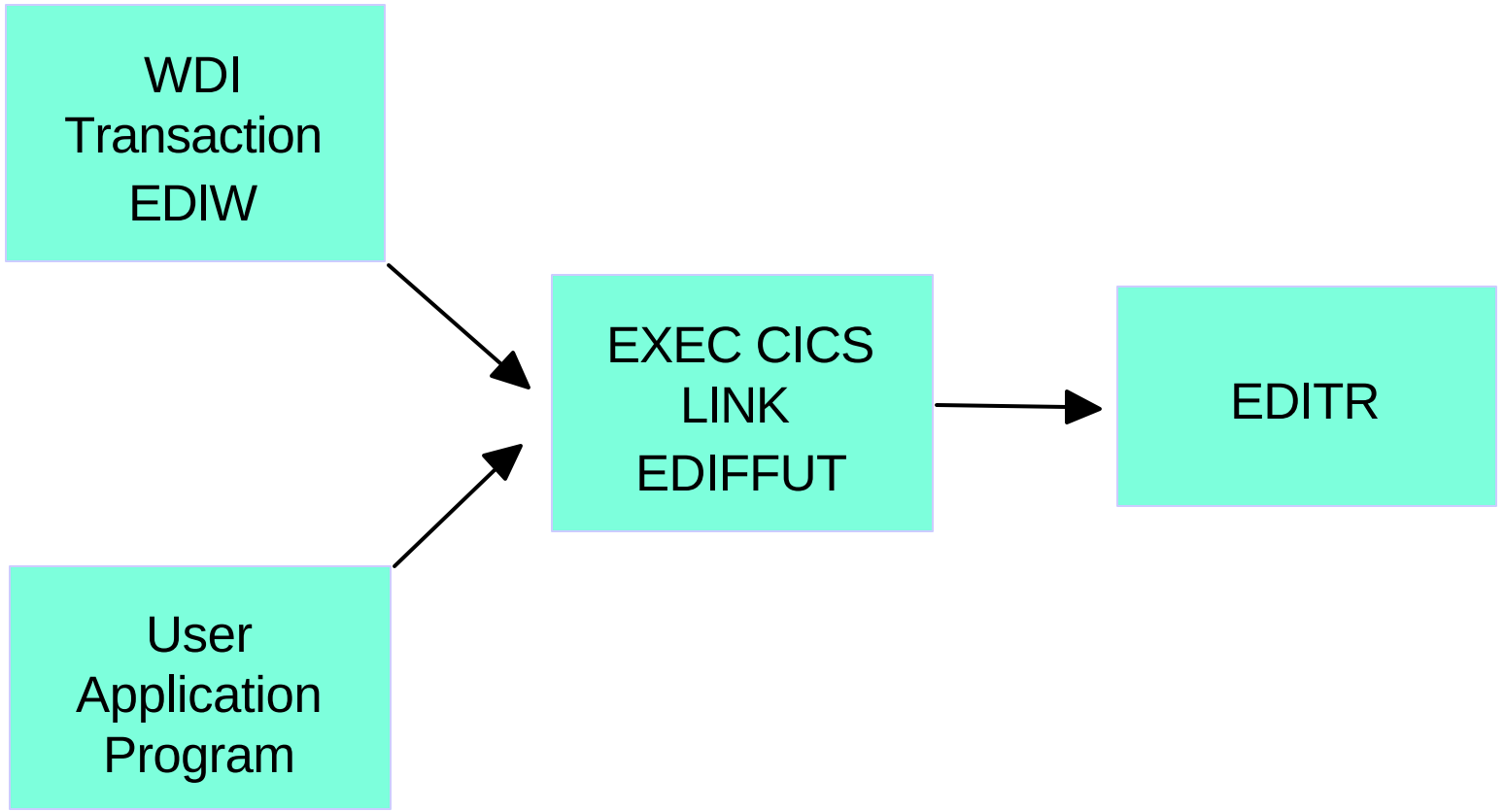
# WDI Interactive

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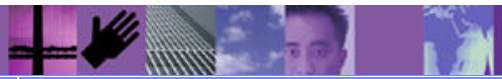
# Continuous Receive

- Uses Expedite / CICS to communicate with Information Exchange
- Data Placed in IE mailbox triggers CICS transaction which extracts data in DI CICS region and starts WDI via Utility
- WDI Send uses Expedite / CICS to push data into IE mailbox
- Continuous Receive Profile



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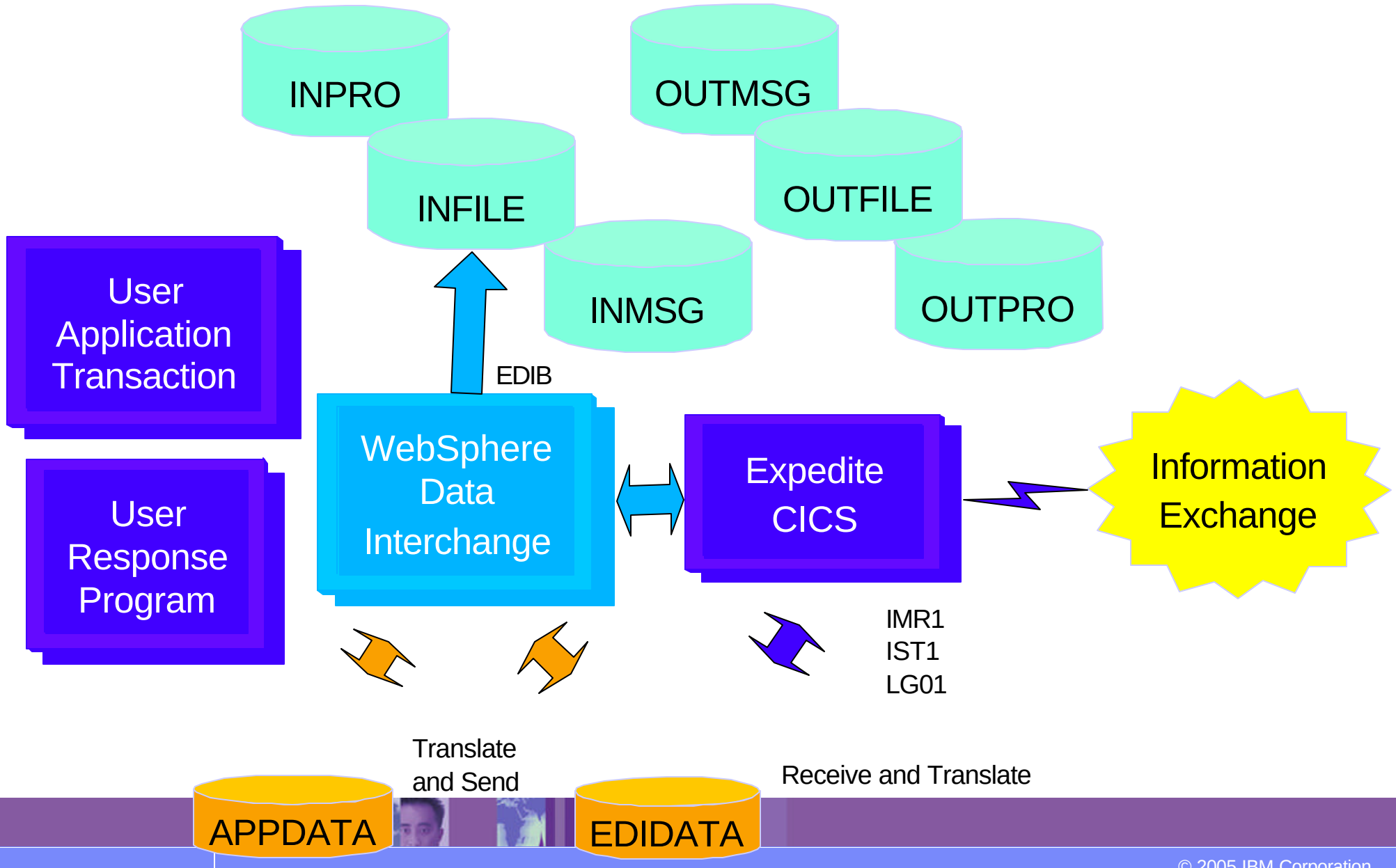
# Continuous Receive

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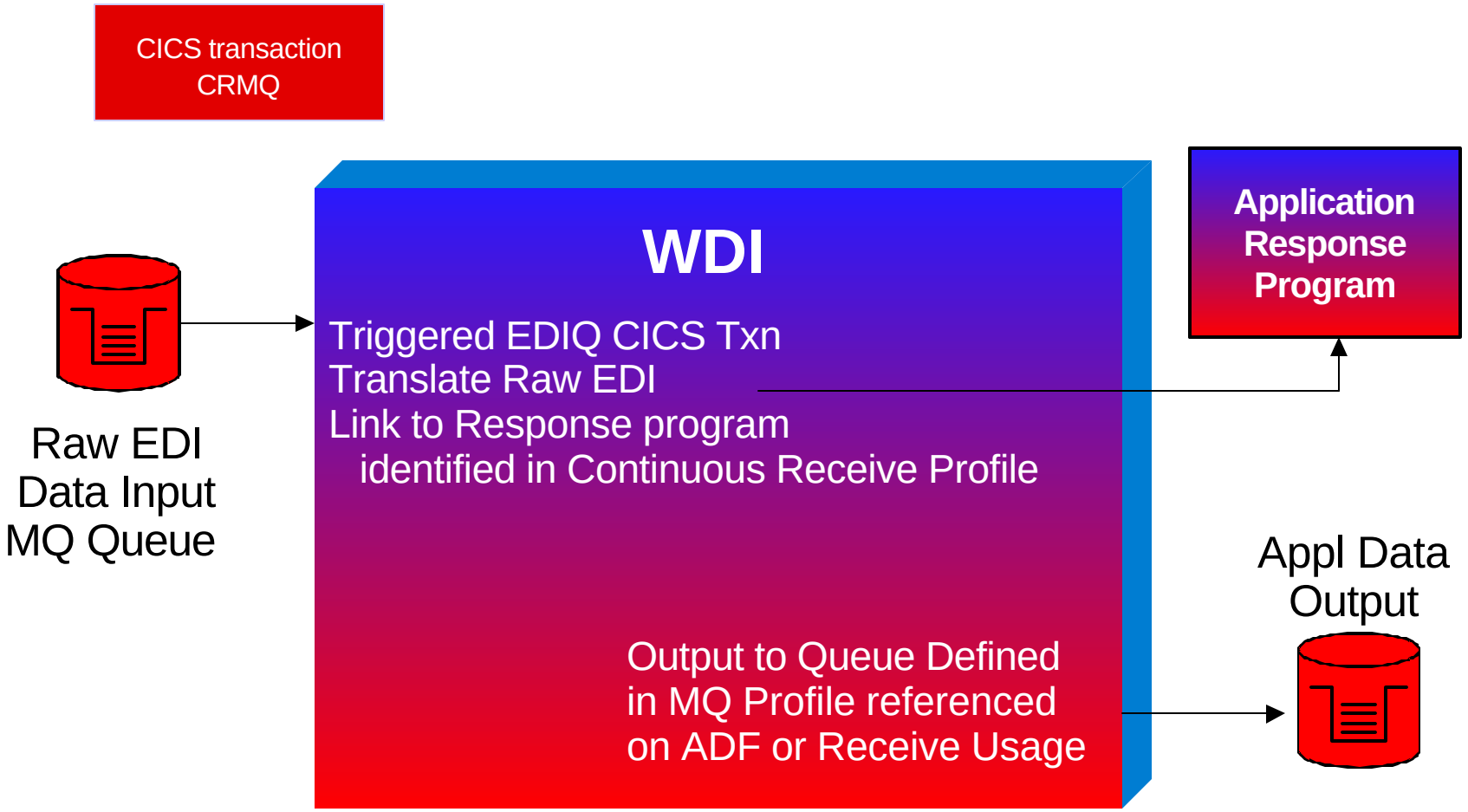
# Continuous Receive using WMQ

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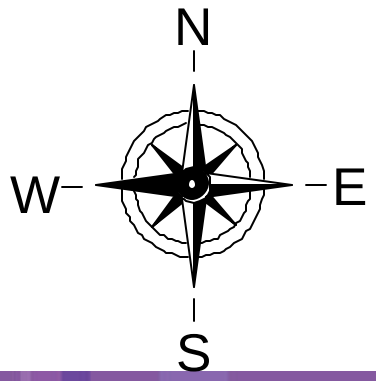
# Architecting with WDI

## Considerations

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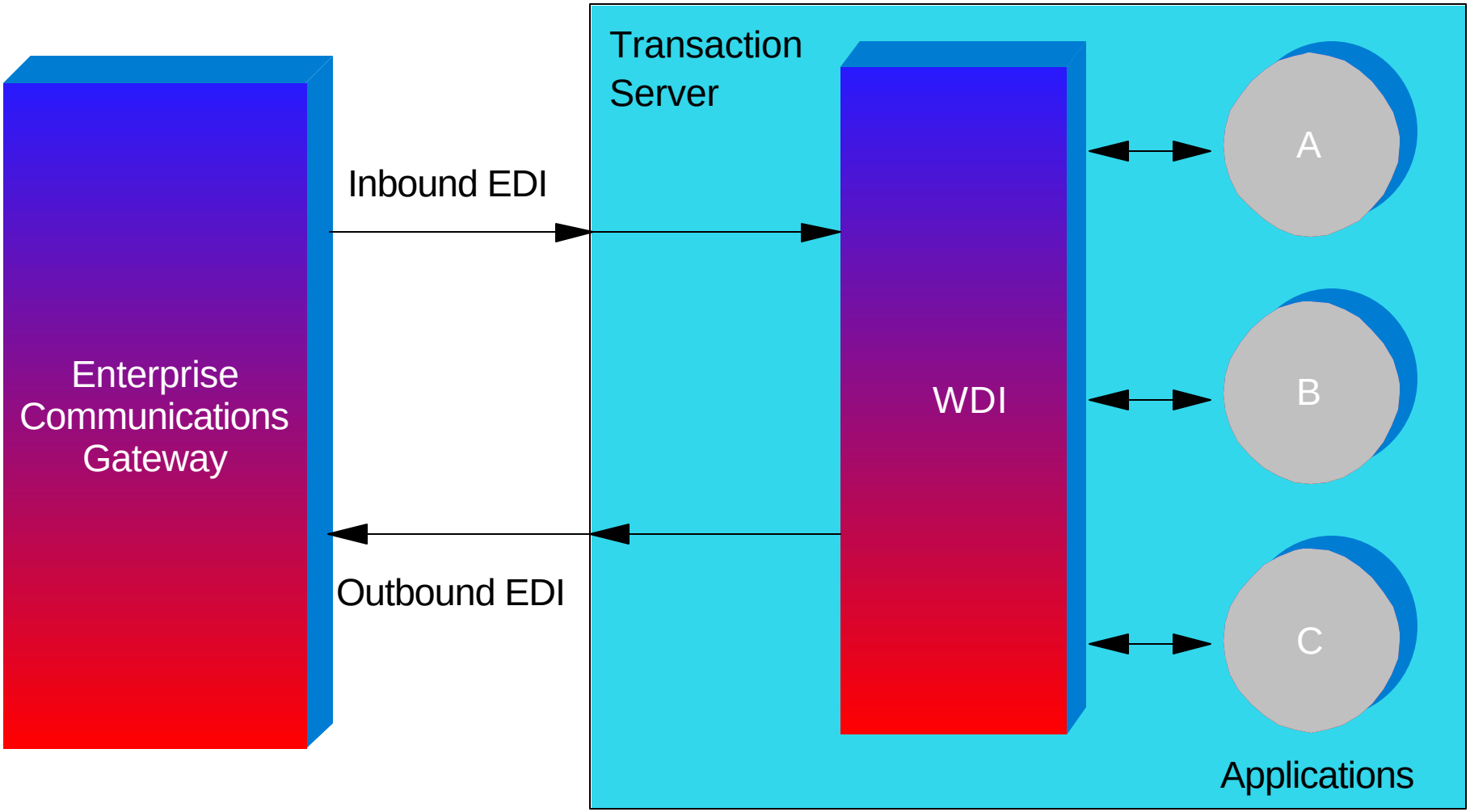
# Shared Processing Environment

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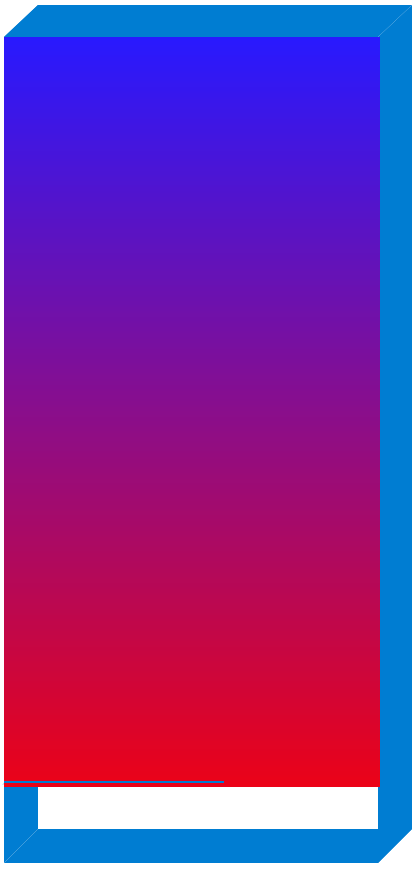

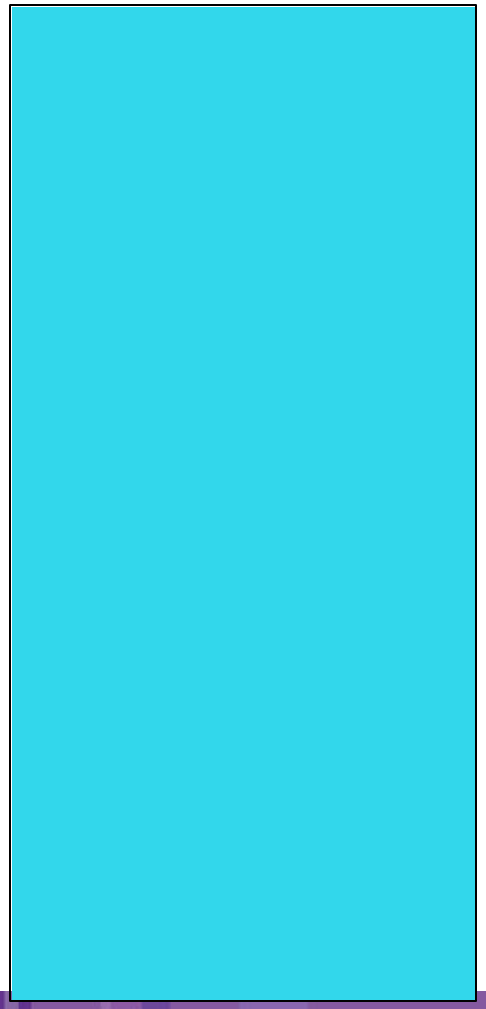

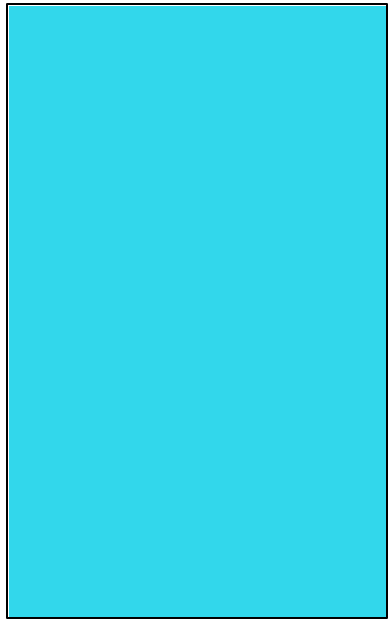

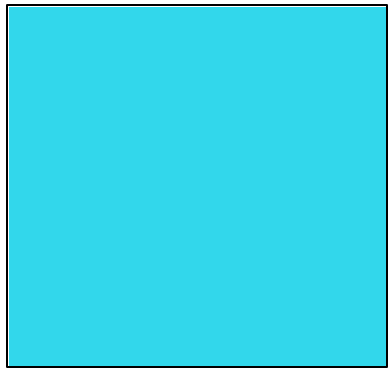

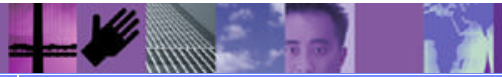

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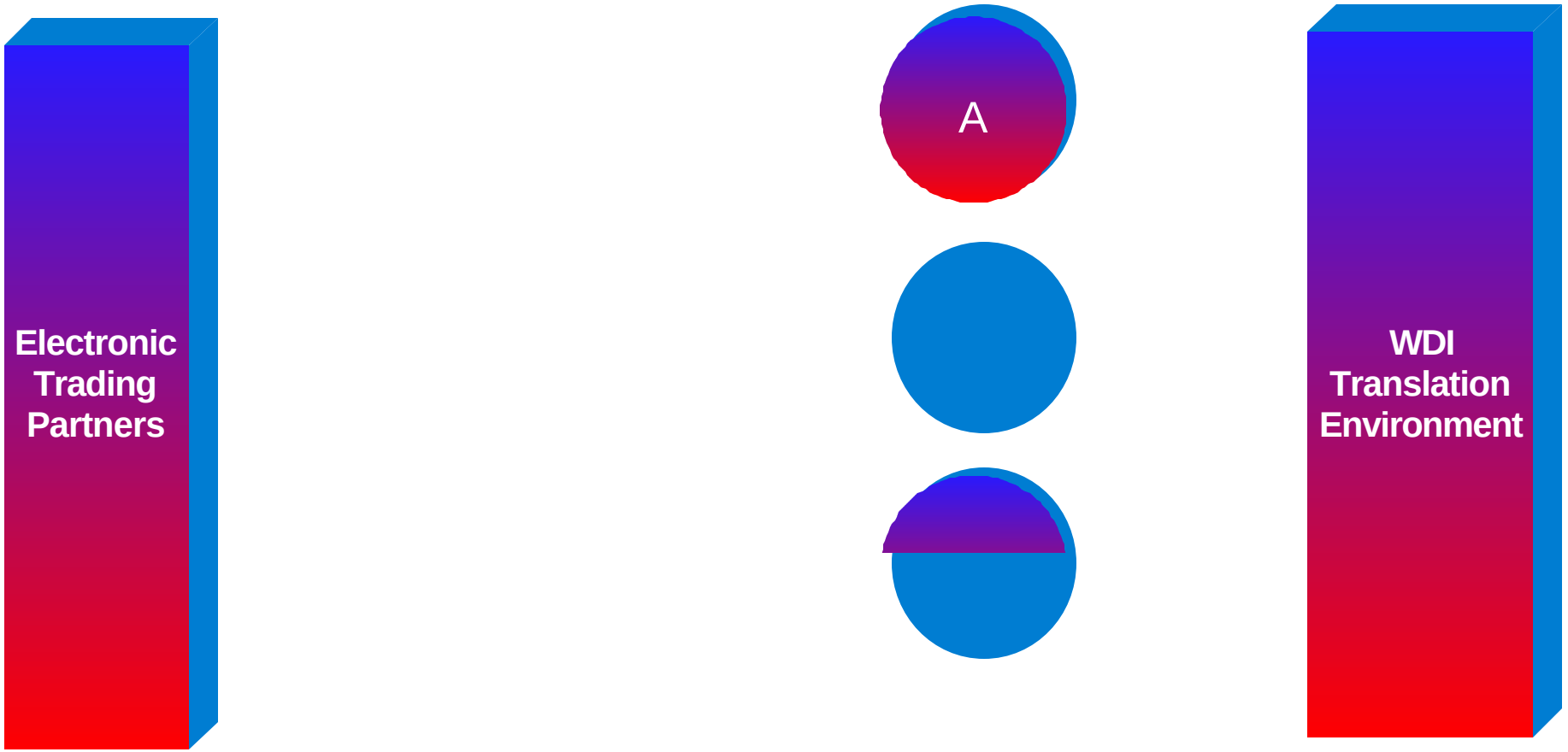
# EDI Processing Architectures

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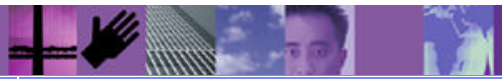
# EDI Processing Architectures

- Option Disadvantages
  - Multiple Appl programmed interfaces to WDI
  - Multiple Appl programmed Comm interfaces
  - EDI Management nightmare
  - System / Comm Support nightmare
  - Knowledge/Skillset turnover
  - Slows New System Development



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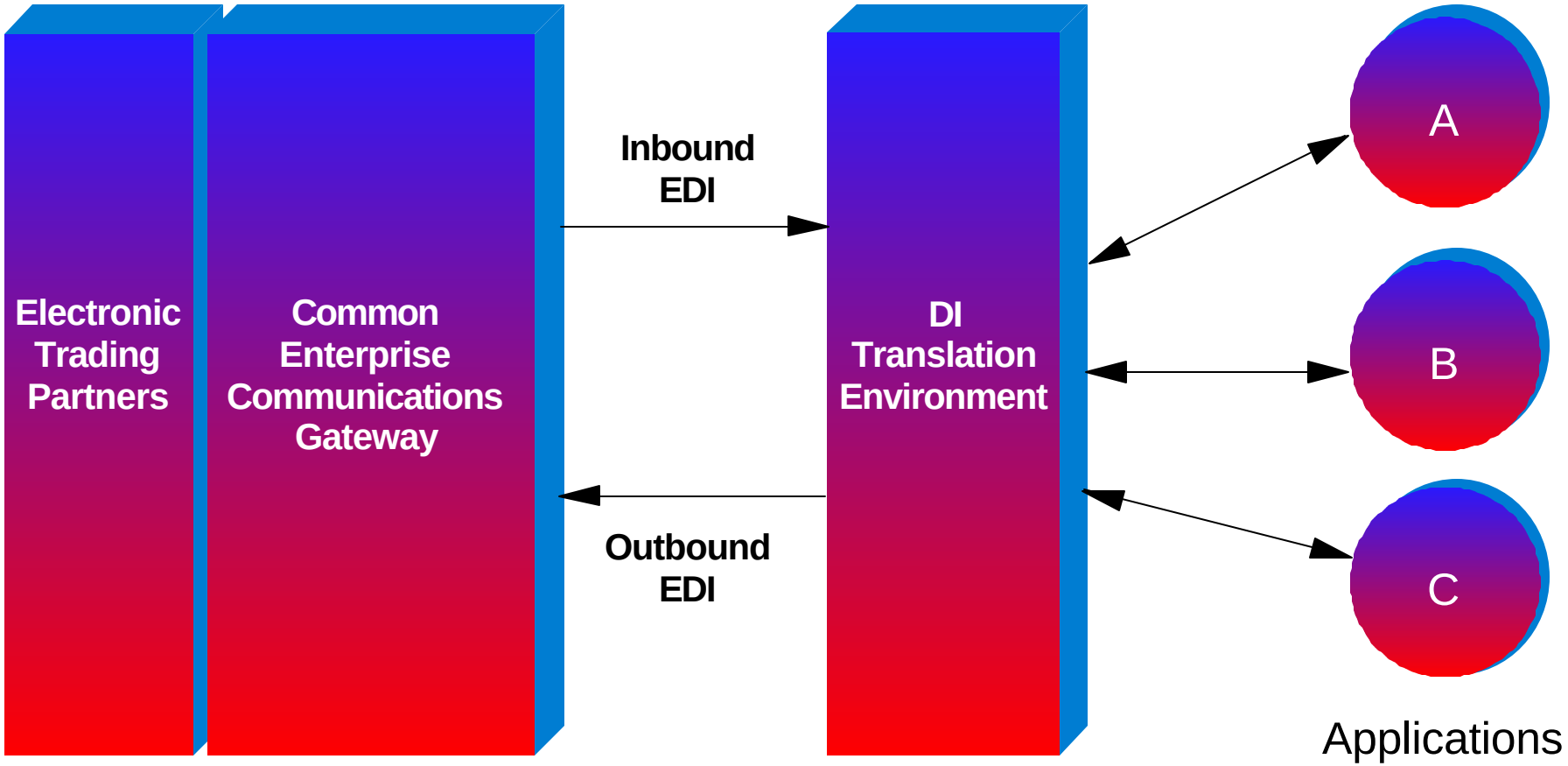
# EDI Processing Architectures

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# EDI Processing Architectures

- Option Advantages
  - EDI System Process Control
  - Performance Tuning Opportunities
  - Common Application Interface
  - Common Comm Interface
  - Centralized EDI Expert Skill Set
  - Applications Personnel Focus on Application Data Only!

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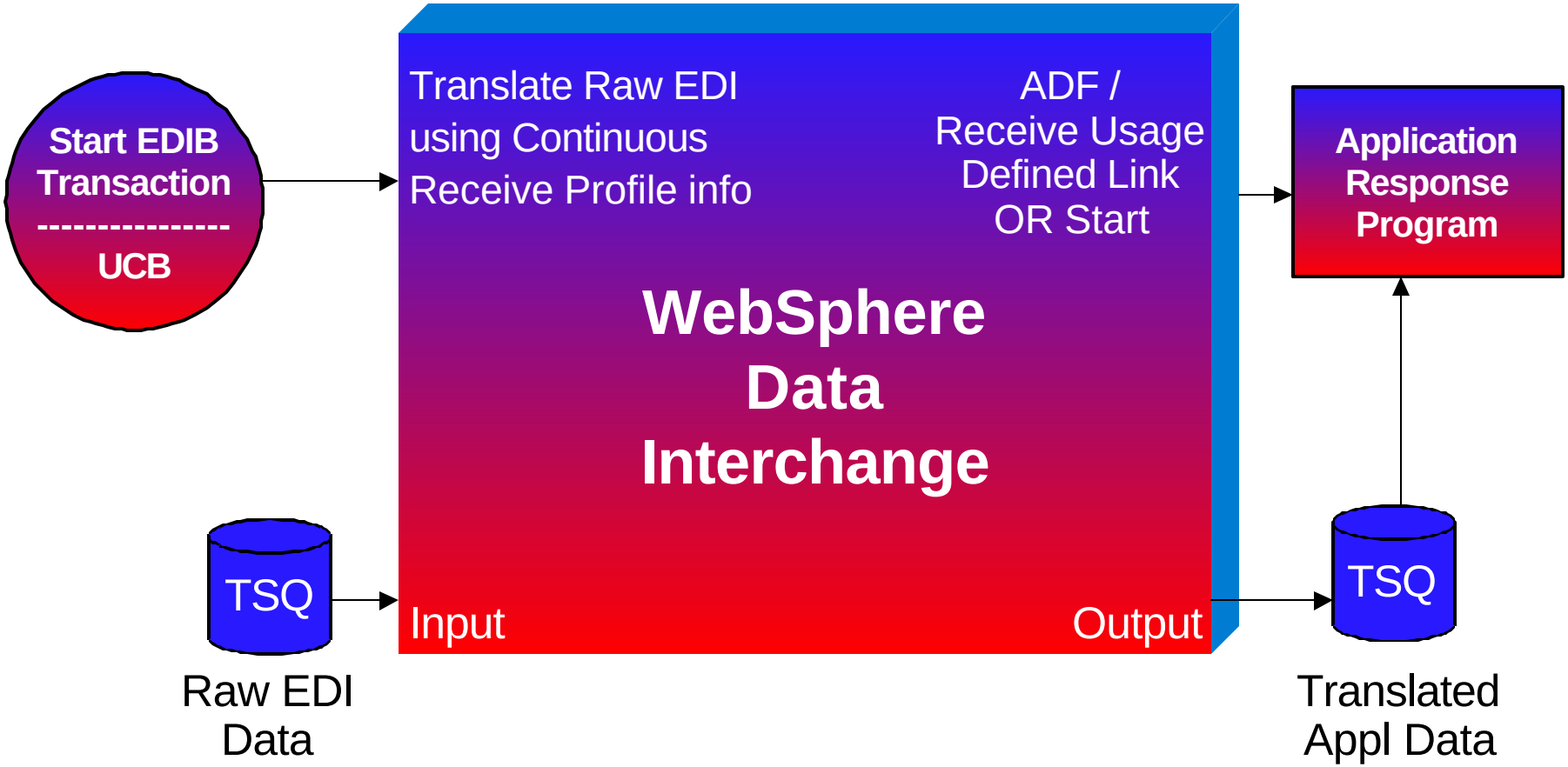
# WDI for CICS Interface

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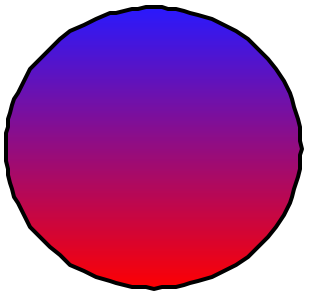

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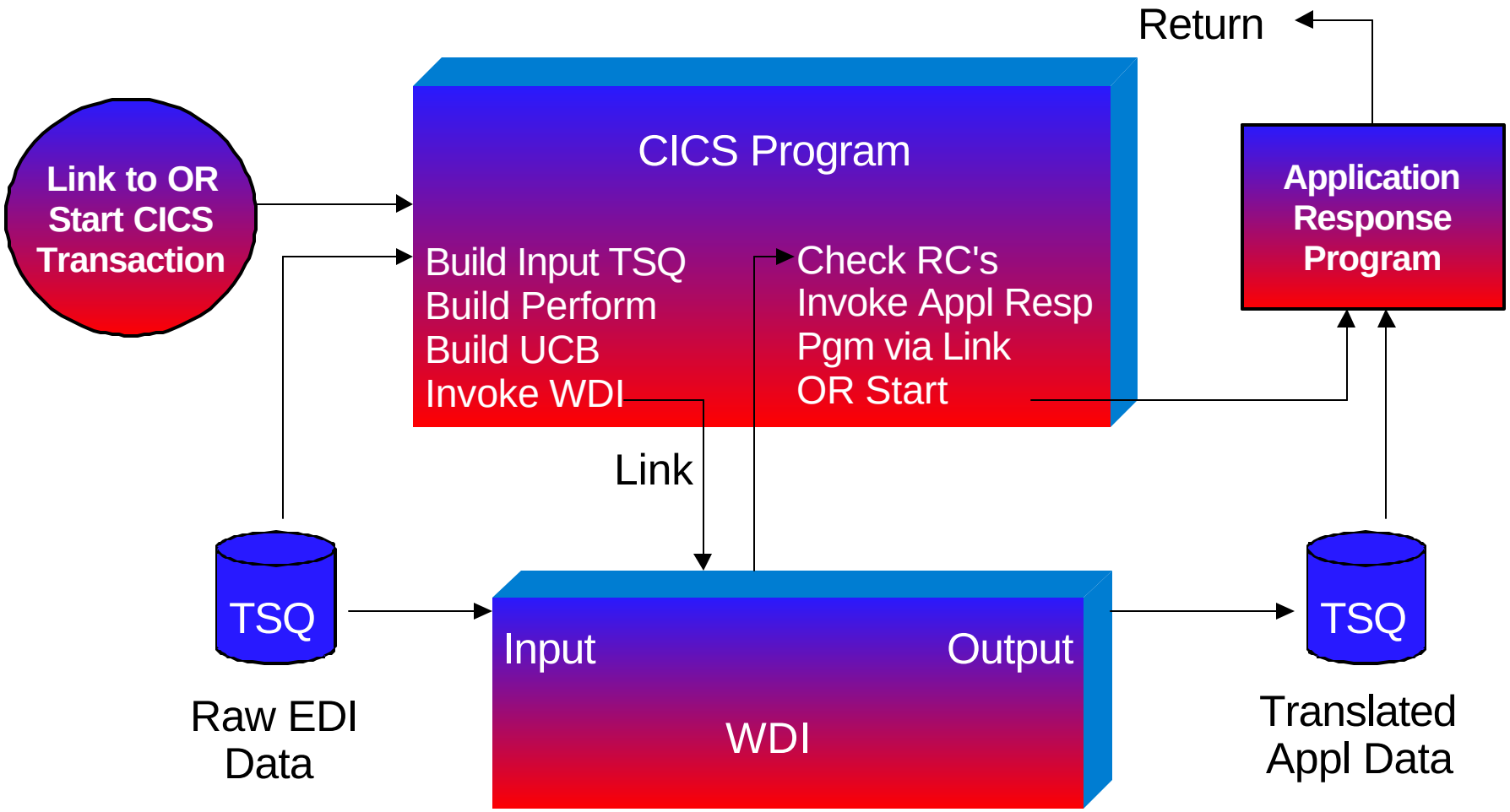
# WDI for CICS Interface

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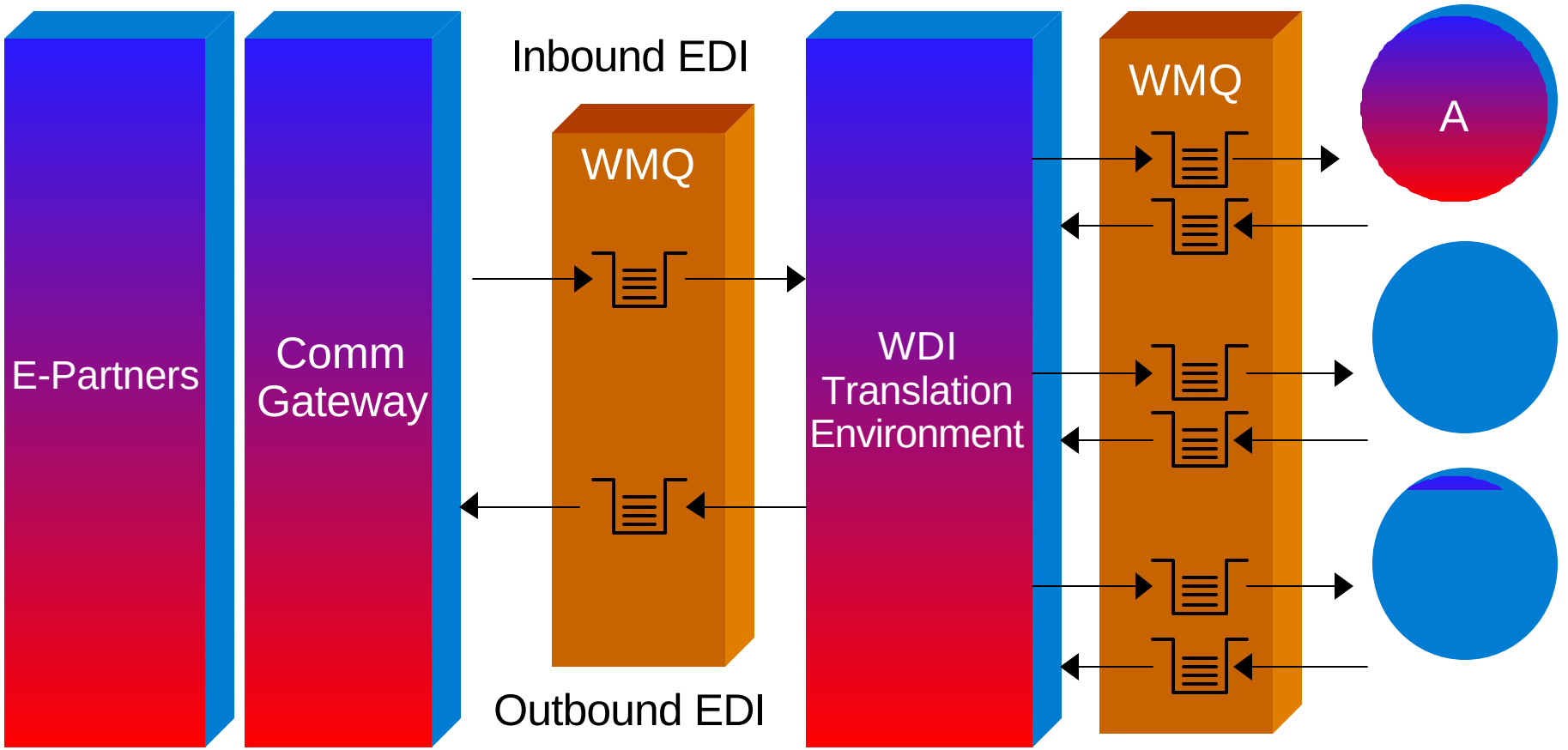


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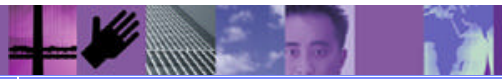
# MQSeries Benefits for EDI

- Assured Message Delivery
- Asynchronous Messaging
- Triggered Processing / Control
- Message Distribution Across Operating System Platforms
- Communications Interface
- Distributed CICS Transaction Execution
- Message Repository / Broker / Distributor
- Integrates Batch and CICS Applications



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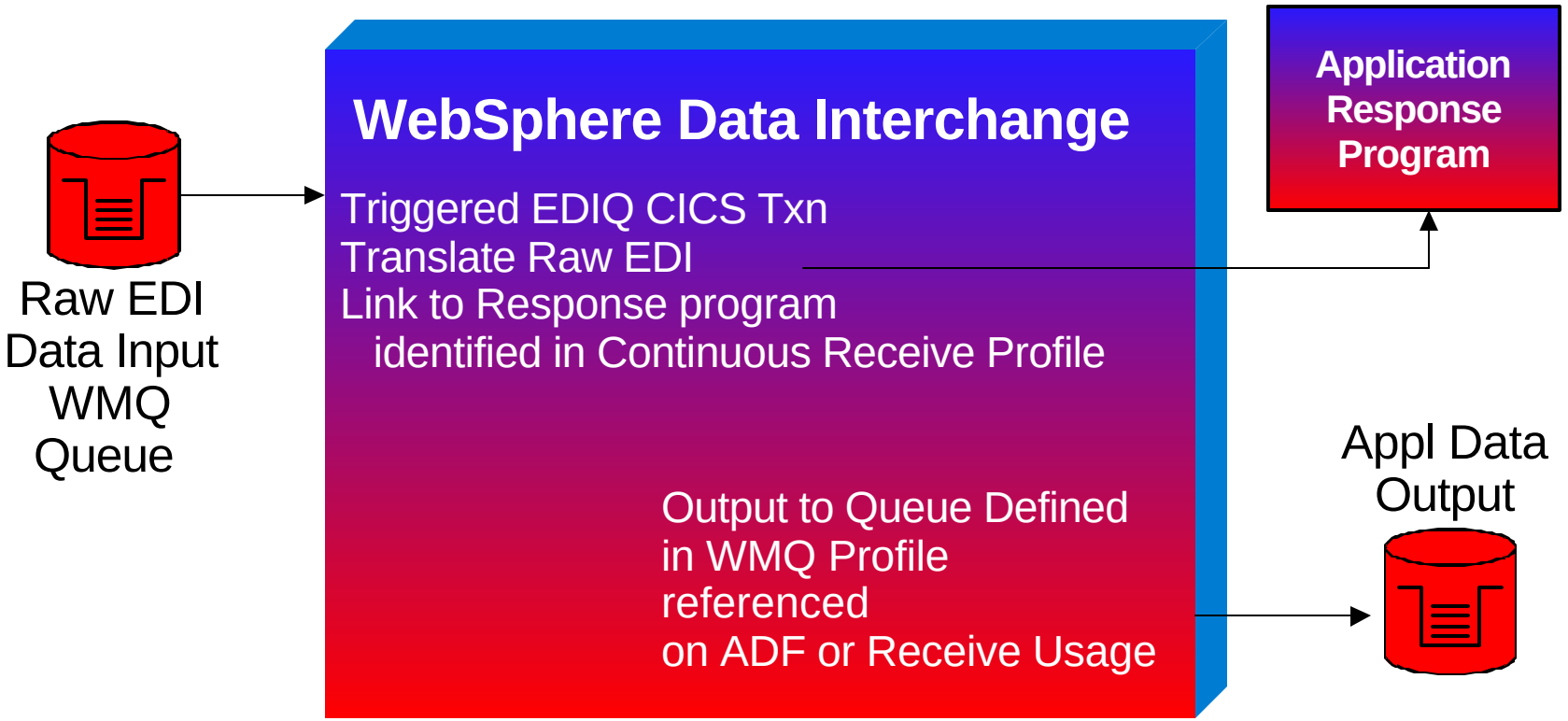
# WDI WMQ Interface

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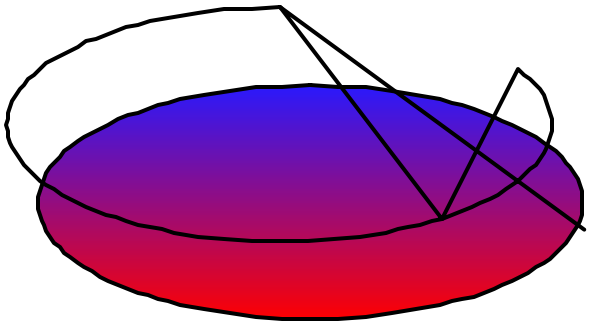
# Architecture Example



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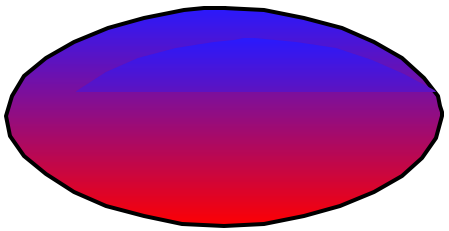
# Architecture Example

System C
Primary Commercial
ACS - Imports

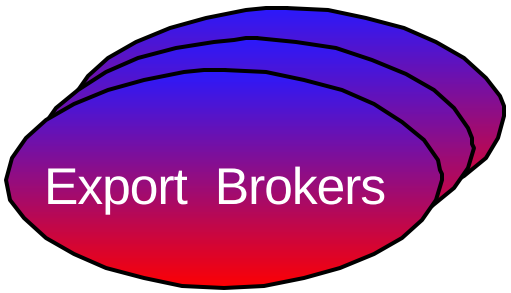
System E
Secondary Commercial
ACE / AES - Exports

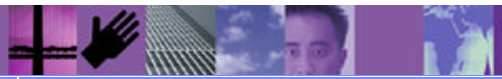
System M
Primary / Law
Enforcement

System Y
MQ Production System
Message Broker



Sprint
Frame Relay / ATM
Network



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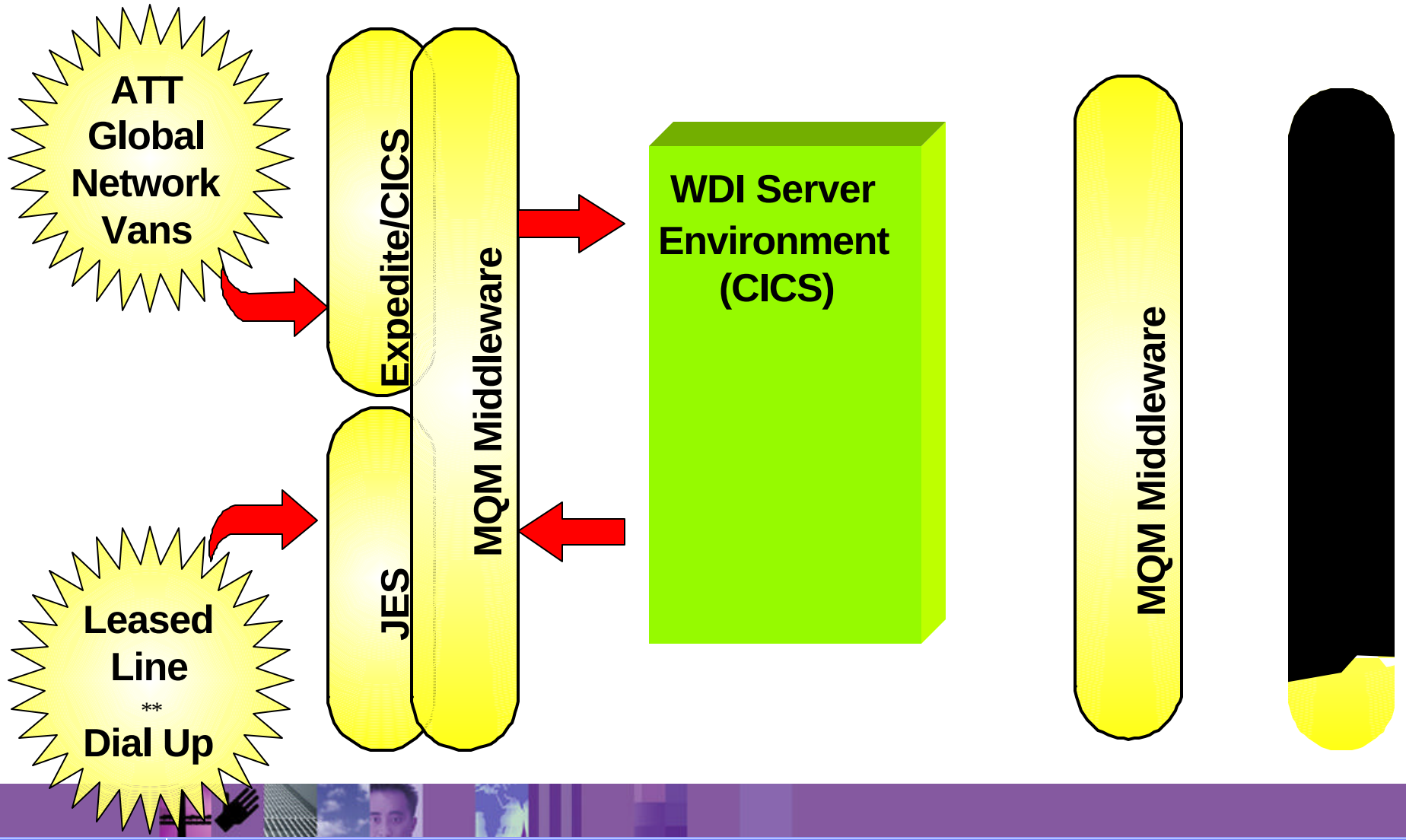
# Customer Example

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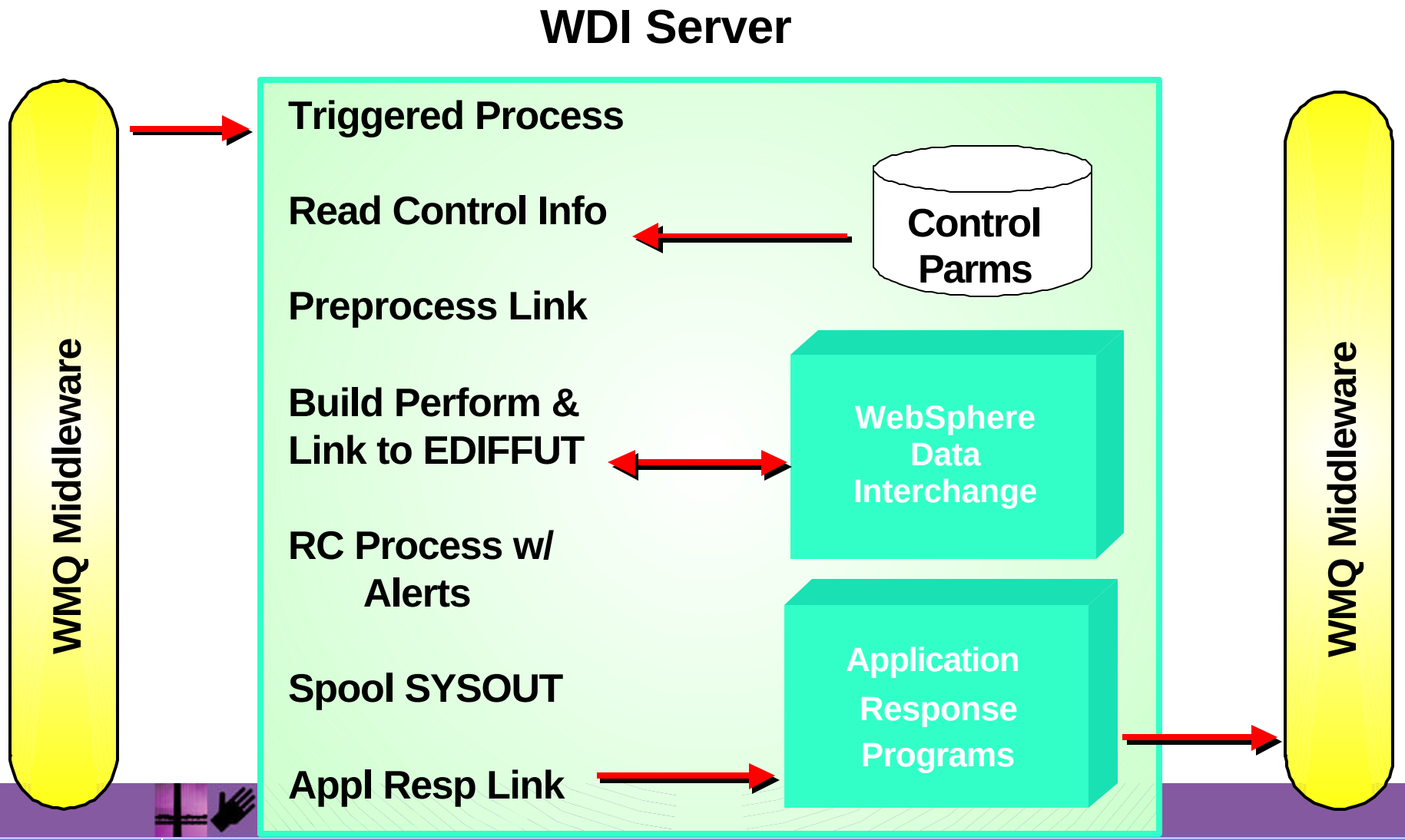
# Customer Example

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