

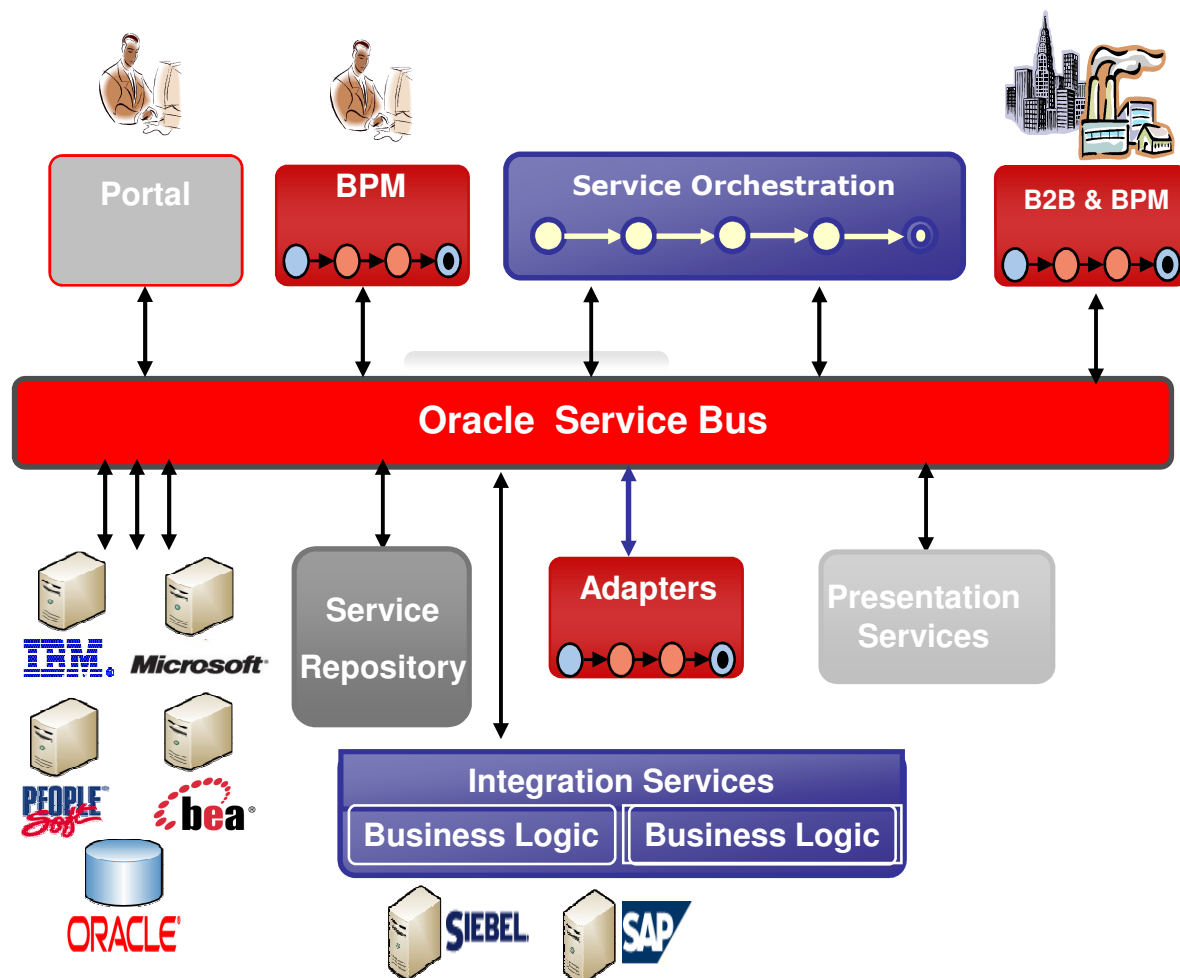
# Oracle Service Bus Essential Concepts

**ORACLE**<sup>®</sup>

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# Realize the Full Benefits of SOA

## With an Enterprise-Class Service Bus



### Service Intermediary & Management

- Location Transparency
- Service Virtualization
- Configuration
- Any to Any Protocol, Payload
- Advanced Integration Patterns
- High Availability & Scale

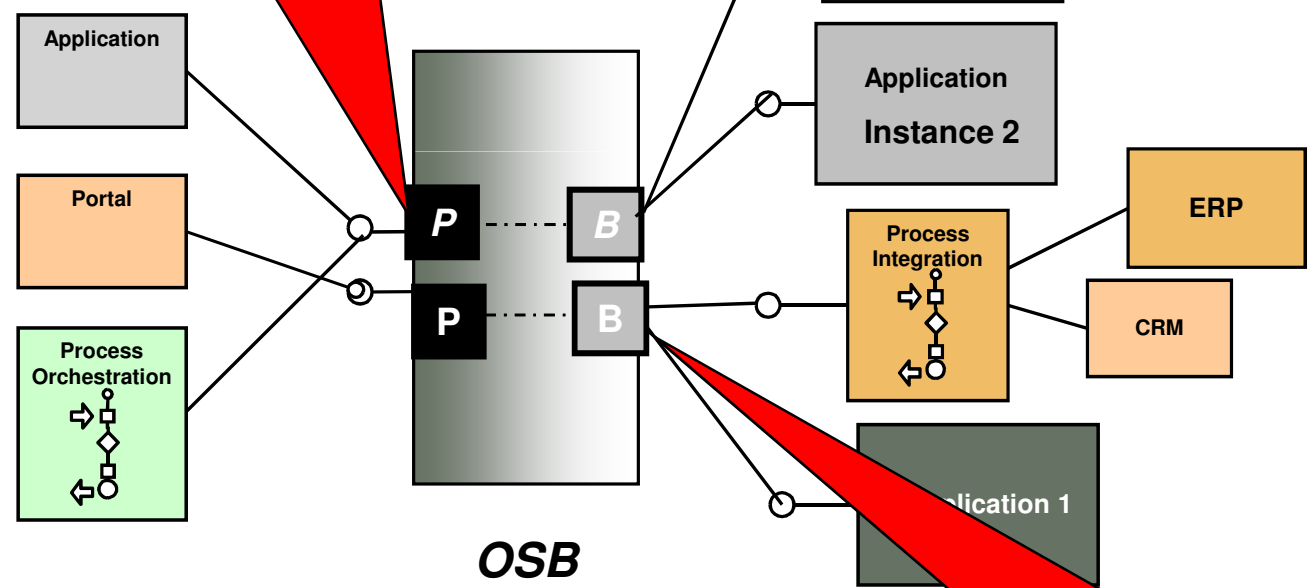
# With Service Bus... Location Transparency

**Proxy**  
Provides location transparency  
of the actual endpoint.

**Endpoint**  
Concrete implementation of Service

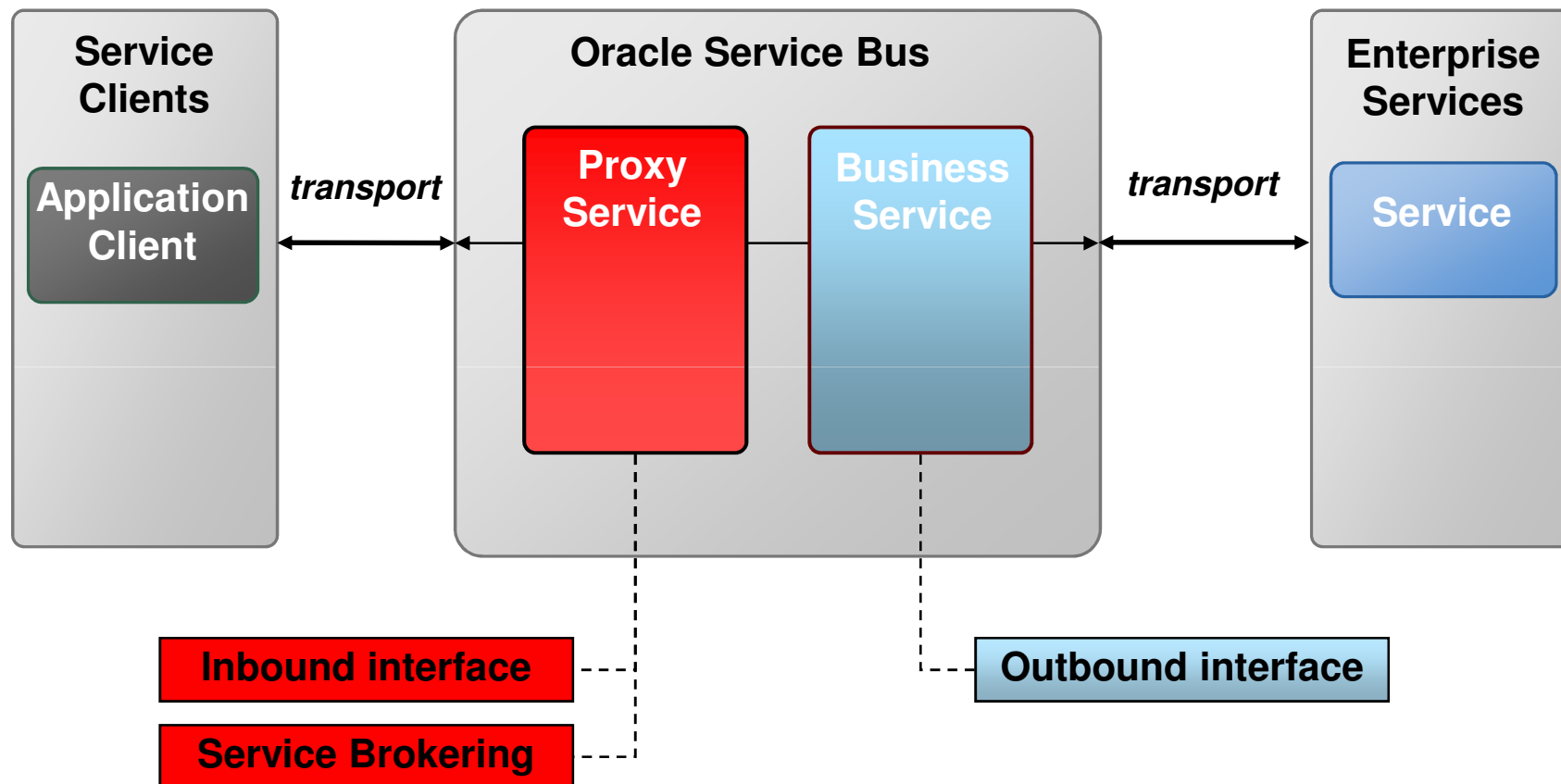
**Service Providers**

**Service Consumers**



**Logical Business Service**  
View of many endpoints

# Mediation: Proxy & Business Services

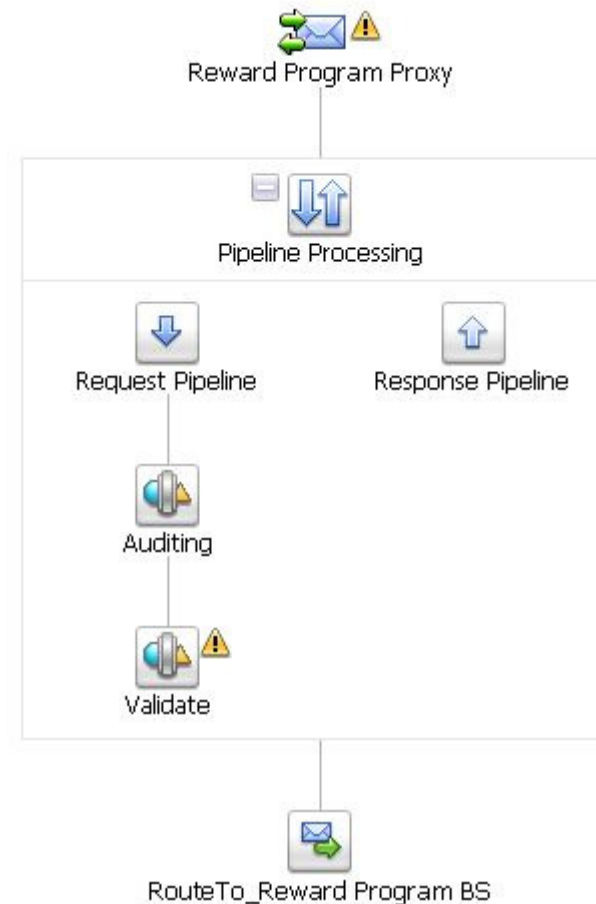


## Predefined Message Context Variables

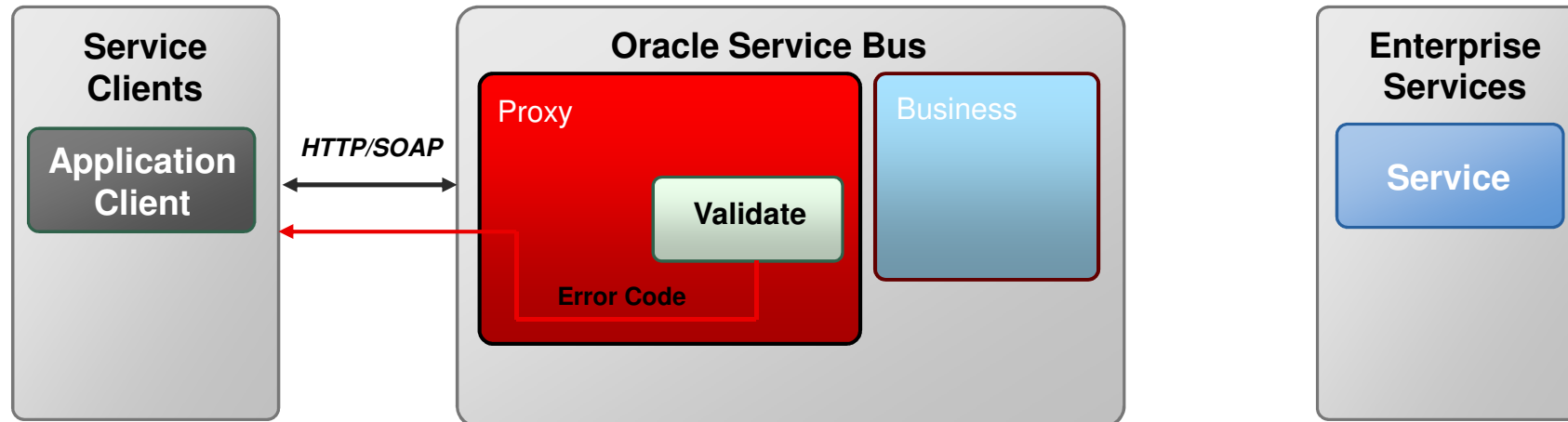
- **\$inbound** is inbound transport metadata, security context and transport headers
- **\$outbound** is outbound transport metadata and transport headers
- **\$header** is the soap header in message
- **\$body** is message payload or soap body
- **\$attachments** are message attachments
- There is ***Always*** a current message at all times

# Mediation: Message Flows

- Proxy Service Definitions
  - Defined by pipelines, branch nodes, and route nodes
  - Used to configure logic for manipulation of messages
  - Logic includes transformation, publishing, reporting, etc.
  - Logic is configured in individual actions within message flow
- Pipeline Pairs:
  - Pairs of definitions, consisting of a *request pipeline* and a *response pipeline*

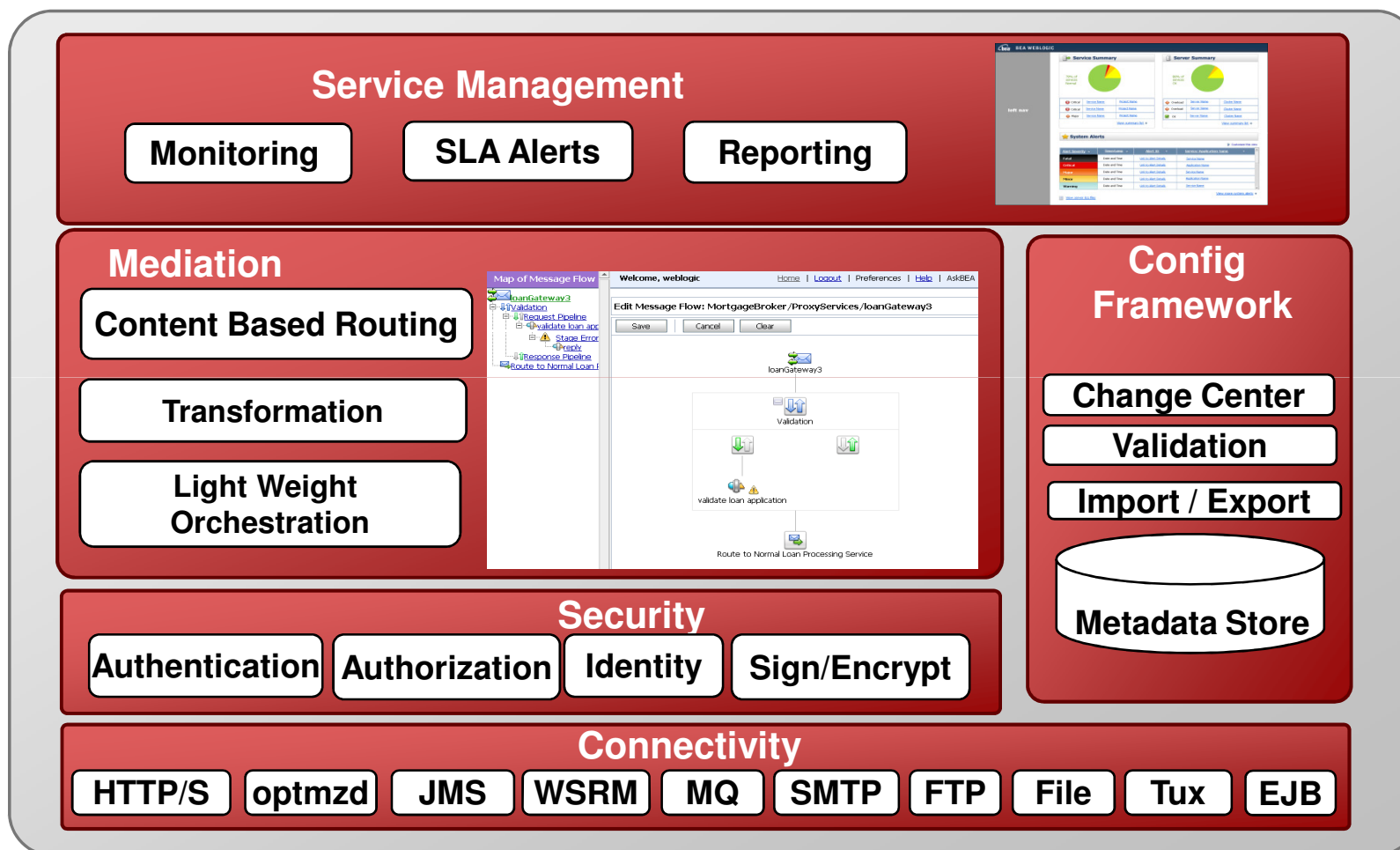


# Mediation: Error-Handling



- Error-handling Features
  - Technology errors/faults
  - Validation errors
  - Security errors: authentication, authorisation, signing, decryption
  - Process SOAP Faults
  - Raise error on custom-defined conditions
  - Enrich custom error messages for invoking services
  - Search/report by error conditions
- Error-handlers at Service, Pipeline and Stage level

# OSB Functional Diagram







*Questions*

