City of Las Vegas
BPEL People

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City of Las Vegas

- Founded in 1905
- Las Vegas City Population: 600,000
- LV Valley Population: 2,000,000
- CLV Land Area: 117 Square Miles
- Mayor/Council – Strategic arm
- City Manager – Operations arm
- 15 Departments Under CMO
- 3,300 Employees
- CLV Total Budget: $1.3B
- CLV GF Budget: $750M
- Oracle eBusiness Suite Customer since 1998

City Technology Environment

- Stack:
  - Oracle 10g Database,
  - Oracle 10g Application Server
  - BPEL Process Manager 10.1.2.

- Integration components:
  - Oracle BPEL PM 10.1.2

- Endpoints:
  - Oracle E-Business Suite,
  - SPL Utilities System
  - Oracle Database

Pilot BPEL Project

- Strategic Information Technology Plan
  - Goal – Vision and Plan for how to maximize future growth with current resources at WPCF
  - Completed 2004
- Strategic Information Technology Plan - Implementation Program
  - Multiple Projects
  - Upgrades to
    - Infrastructure
    - LIMS
    - CMMS
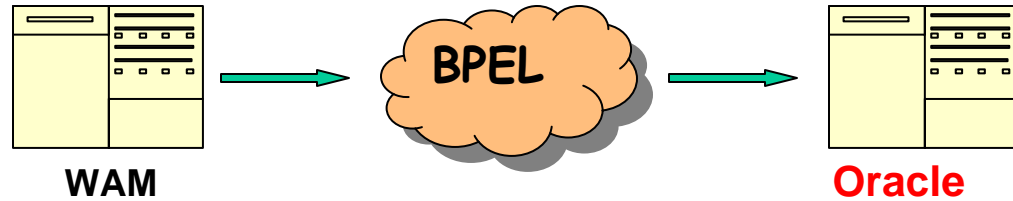   - System integration

Why BPEL?

- System Integration Project
  - Software Selection
    - Criteria – 36 items to be ranked against
      - External - 20% (stability, presence, fees)
      - Functional – 40% (Messaging, logging, exception, web)
      - Supplemental – 40% (Understandability, manuals, APIs, maturity, business process monitoring)
  - Vendor Evaluation
    - Market Analysis
    - Site Visits
    - Demo's
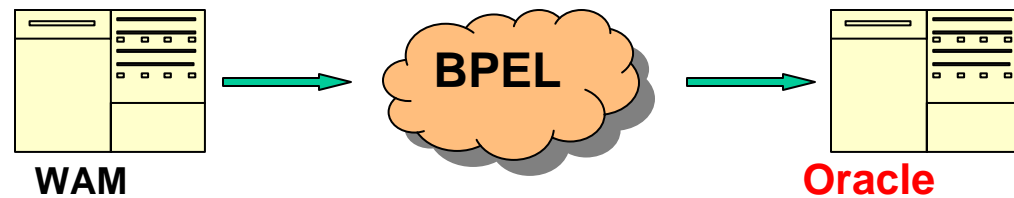   - Ranking and Voting

Interfaces

- Interfaces – BPEL
  - Employee
  - Vendor
  - Item*
  - Requisition*
  - Purchase Order
  - Receiving
  - Invoice
  - General Ledger (inventory transactions)
  - Timekeeping
  - SCADA (planned)
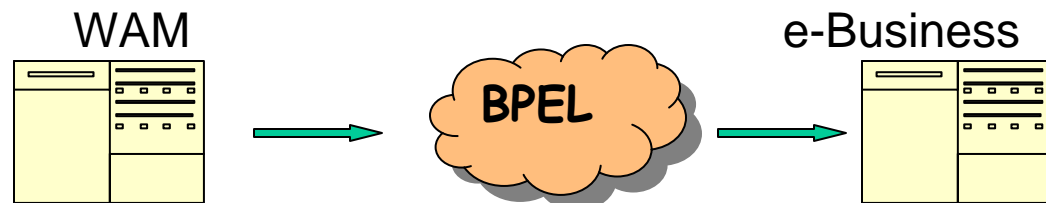 - *Real time - Triggers*

Triggers

- Inv Items

WAM   BPEL   **Oracle**

- Requisitions

WAM   BPEL   **Oracle**

From WAM to Oracle

- Receiving
- Inventory transaction data to GL
- Timekeeping

A concurrent process runs at least once a day to pass the information from WAM into Oracle

WAM   e-Business
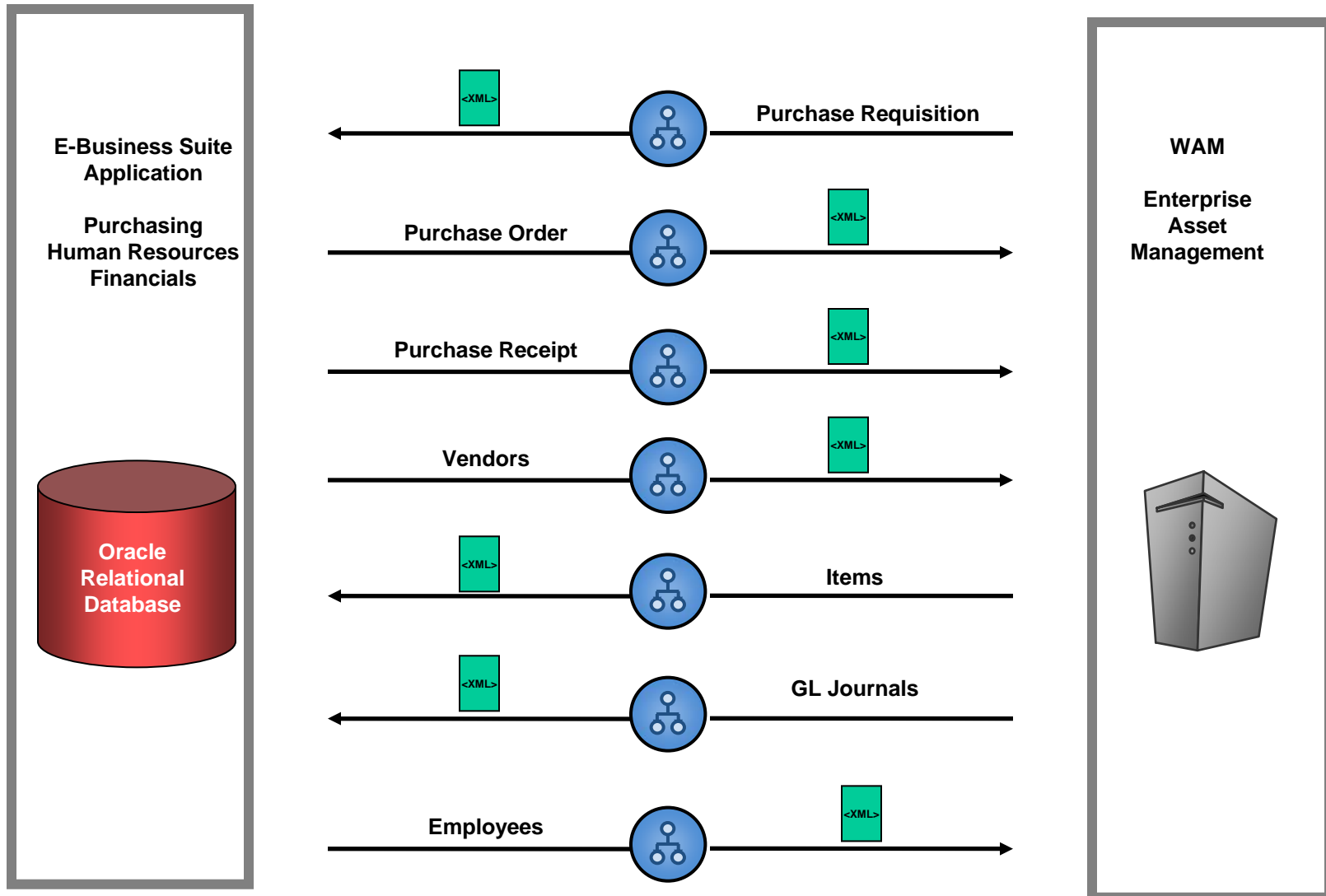
BPEL

From Oracle to WAM

- Employee from HR

- Vendor from PO
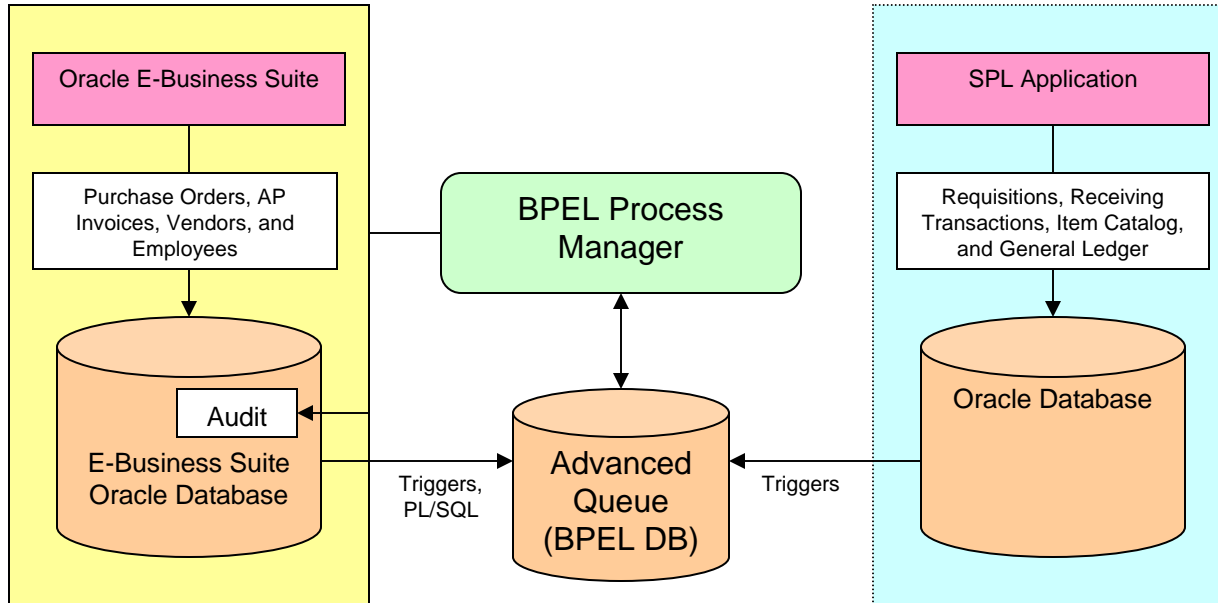
- Purchase Orders from PO

- Invoices from AP

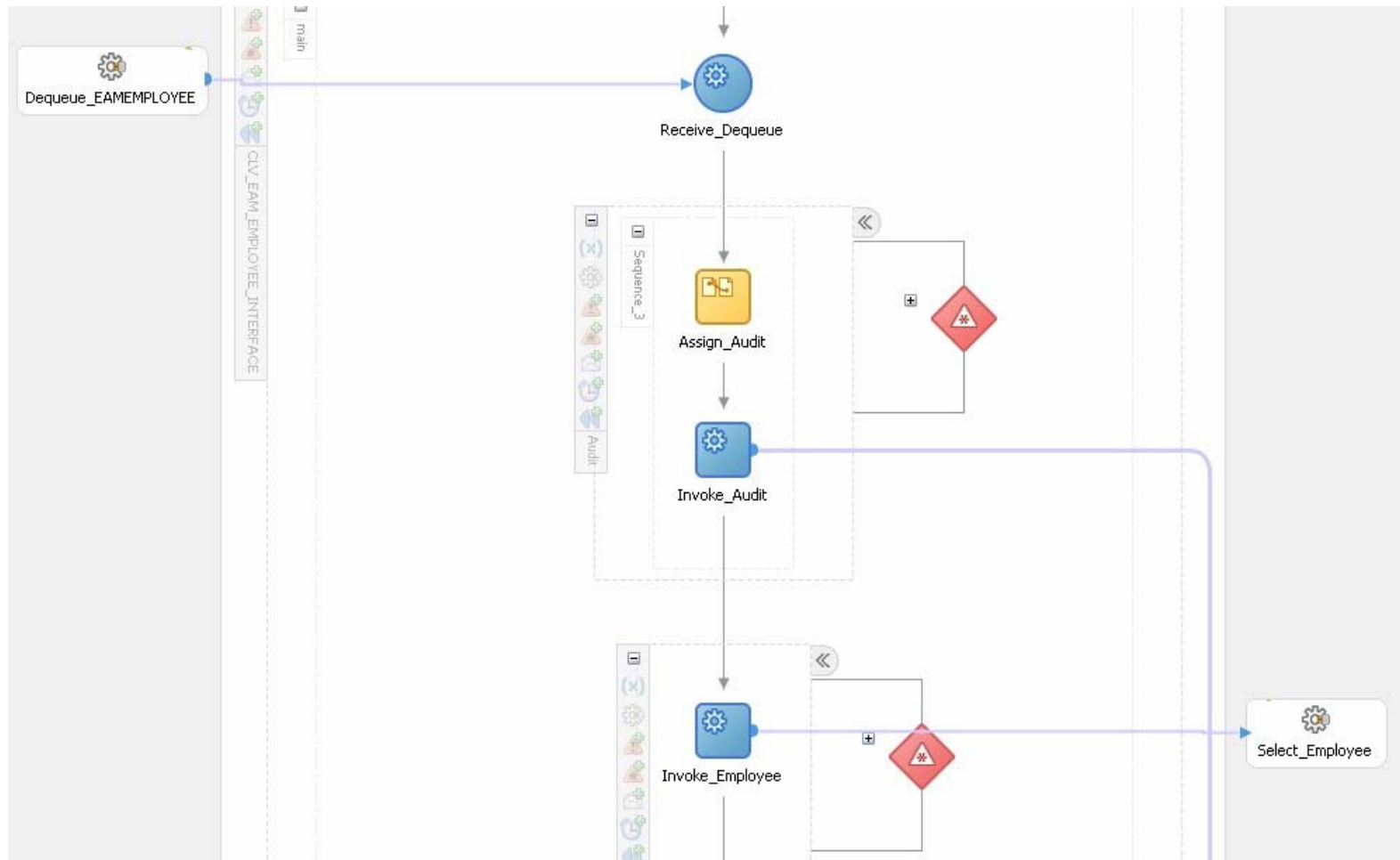A concurrent process runs at least once a day to pass the information from Oracle to WAM

e-Business   BPEL   **WAM**

Process Flow

Integration Solution Using AQ

Sample BPEL Process

Lessons Learned

- Knowledge transfer is important
- Start with a Proof-of-Concept
- Allow and foster access to learning materials and classes
- Encourage participation in user groups
- Select staff with Oracle applications development background

Future BPEL

- Hansen Financial Transaction Interface.
- Employee Badge System from HR to Detention.
- Cashiering System.

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QUESTIONS?