

University of North Texas

Enterprise Architecture: Tales from the Front Line

April 2007

Background

- Engagement – I.T. Strategy
- Scope – All key business processes
- Constraints – Many custom developed systems
- Culture – Incremental modification
- Barriers – Transition mind-set from expense to investment focus

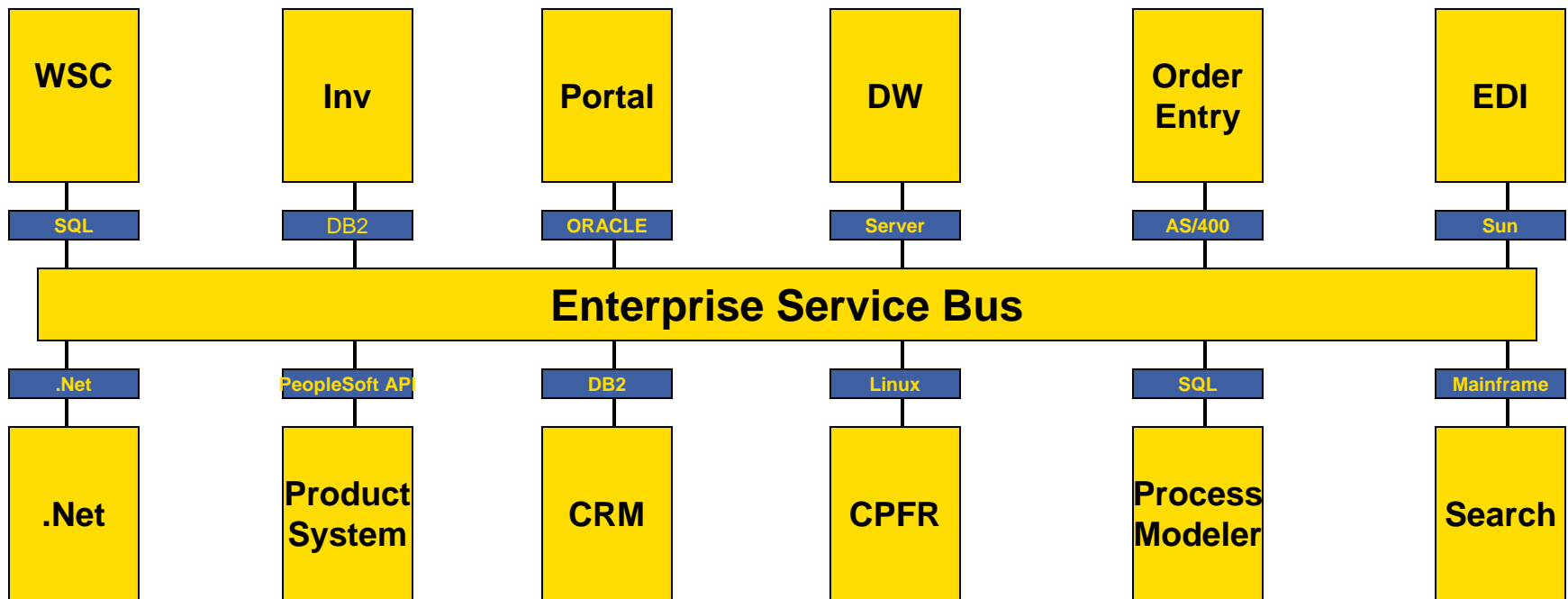
Findings

- Lack of standardization
- 13 custom systems supporting inventory management
- 3 different technologies supporting e-commerce
- Multiple purchase order systems
- Custom order management system w 200+ interfaces
- 4 different types of data bases, 5 different o/s's, multiple development environments, etc.
- Unsupported software operating core functions

Recommendations

- Standardization
- Transition Strategy
- SOA
- Enterprise Service Bus
 - Agility
 - Speed to market
 - Lower total cost of ownership
- Mainstream vendor

Enterprise Service Bus



 Adaptor

SOA What !

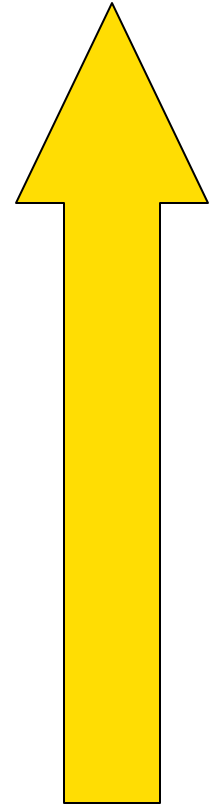
- Agility
 - More responsive
 - 5 days or less vs 25 days or more
 - Reduced TCO
 - Accelerated time to value
- Transition Strategy
 - Move from a direct connect to a publish and subscribe model, provides the infrastructure required to transition from old customer developed order management system to new multi-channel, component applications architecture
- Real Time Organization
 - Integration of E-Commerce shopping experience and inventory management

Major Investment

- Enterprise Service Bus
- Adaptors
- UDDI
- Methodology
- What is a service?
 - Atomic
 - Order Entry
 - Component
 - E-Commerce Platform

Implementation Strategy

- Enterprise Service Bus
- Adaptors
- UDDI
- Methodology
- What is a service?
 - Atomic
 - Component



Start

Implementation Pilot

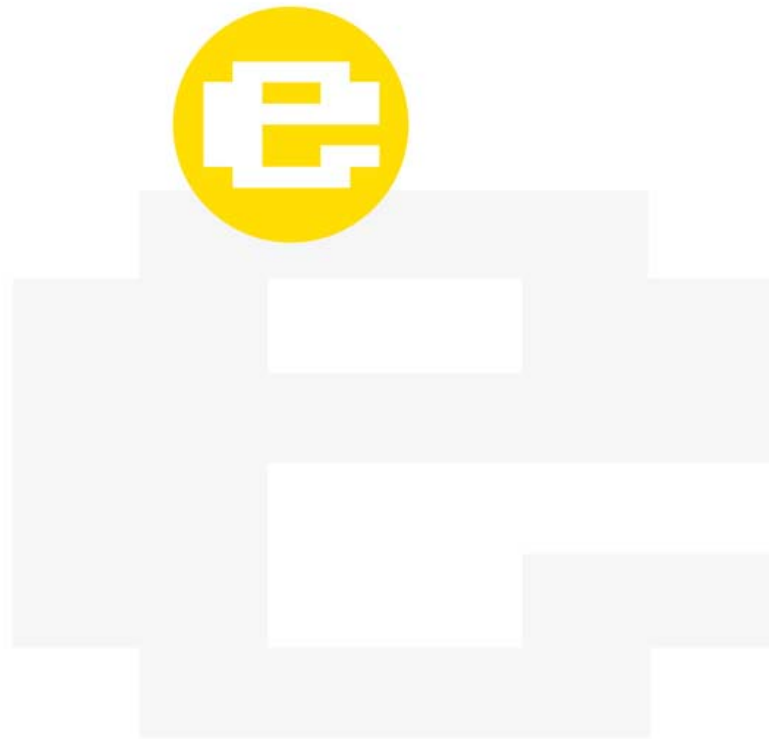
- E-Commerce to Order Management
 - Inventory management
 - Customer personalization management
 - Multi-Channel support
 - Online marketing and merchandising integration
- Real-Time Organization
- Component Based Architecture Approach
- Open Source Enterprise Service Bus
- Open Source Adaptors

Lesson's Learned

- Start Small – Difficult to sell big bang
- Limit Scope – Build on success
- Plan Learning Curves – Make mistakes quickly
- Try to Anticipate Issues
 - Policy
 - Organization
 - Procedural
 - Technical

Take Away

- Component Based Applications Architecture
- Real-time organization
- Extended organization
- Information access and analytics
- Service Oriented Architecture next step in evolution
- OOA&D



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