



# Transition from EAI to SOA and use of CBO

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## Agenda

- Brief History of Company in relation to Integration
- Why an SOA Strategy
- SOA Framework
- Common Business Objects
- Governance


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## Amcor's Integration Journey

- Federated Business model, formed by Acquisition
  - 6 Divisions with a great deal of autonomy.
- Formation of shared IT organisation
  - Supporting multitude of heterogeneous Platforms and Applications.
  - Applications being both in-house and Packaged
  - Need for an Enterprise view of Data
- Introduction of MOM in 1997
- Introduction of Message Broker in 1999


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## Current Integration landscape

- WebsphereMQ used as Messaging system
- AMTriX – to be decommissioned November 2007
- SAP BC 4.6 – No longer under current support
- SAP XI 3.0 – Adapter/Message Broker for SAP
- webMethods 6.5 – engine for Amcor Service Oriented Architecture (SOA) / Enterprise Service Bus (ESB)
- Q-Extend – Adapter for eB2
- Many non-compliant point to point integrations


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## Why SOA?

- IT Flexibility
  - Alignment to Business
  - Easier to Merge and De-merge
- Reduce TCO
  - Quicker Time to Market
  - Reduce support and Maintenance costs
    - Standardise Packaged applications
    - Mechanisms in place to gather data to measure effectiveness
    - Re-use on CBO level
- Reduce risk of running Legacy Applications
- Reduce risk of Vendor Lock-in
  - Use of open standards


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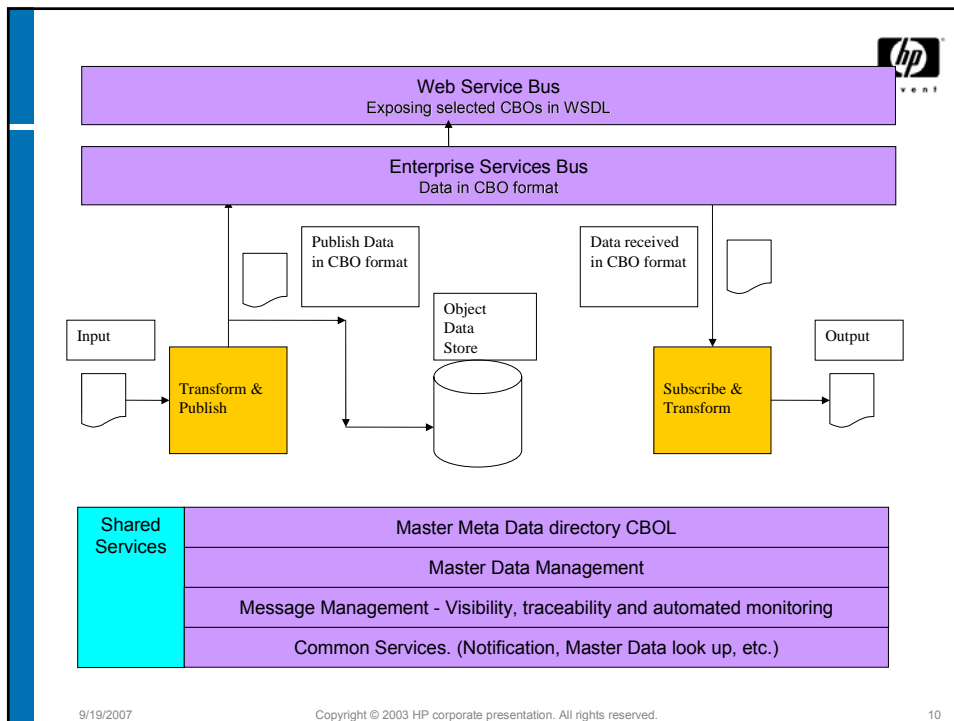
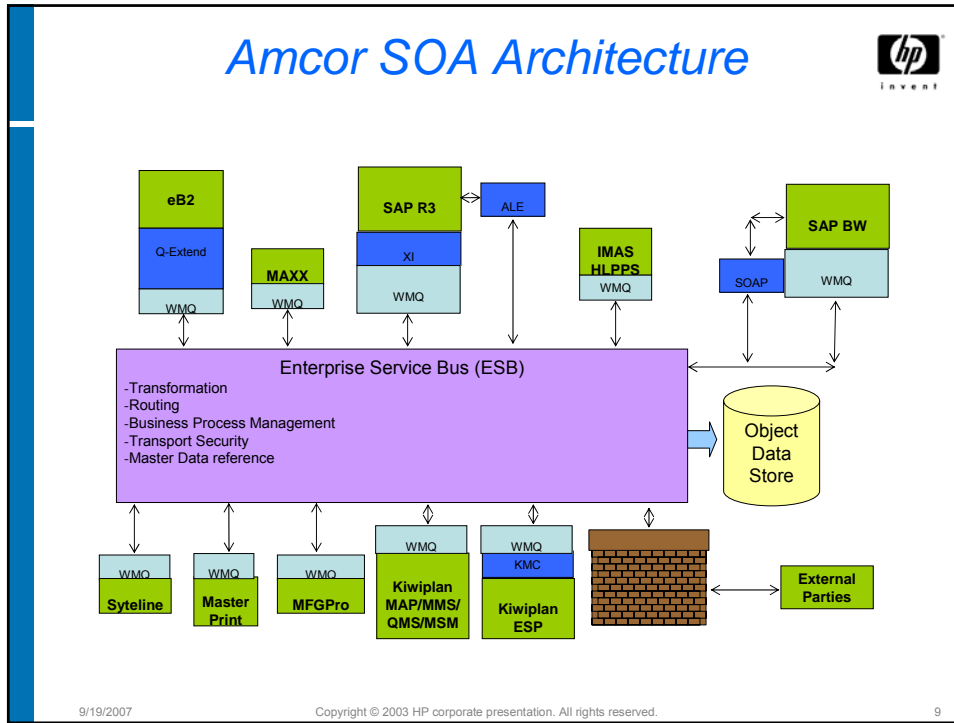
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## Future Integration Strategy

- SOA
  - Frame work developed and ready for use
  - A few projects implemented
  - CBO definition & process
  - Governance in place
- Consolidation of Integration Tools
  - wM tool for SOA & ESB
  - XI to be used for all SAP to SAP integrations
  - Q-extend to be used as eB2 adapter
- Acceptance and use of Std Data Model – Meta Data
- Technology road map to be developed, and published.

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## Message Management

- Visibility
- Traceability
- Automated Monitoring
- Retransmission
- Reporting

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## Common Services

- Notification Service
  - Any event can be captured and any person or party can be notified.
  - Can be invoked by:
    - Web Service Call (WSDL)
    - Publish Notification CBO on ESB
    - Configuration in ESB tool
  - Can trigger
    - E-mail
    - SMS
    - Raise Incident in Service Desk tool (SNMP trap)

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## Common Services Cont...

- Conversion (Lookup) Service
  - Match data between different systems
- Master Data reference Service
  - Ensure Data is consistent (quality)

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## Common Business Objects (CBO)

- Business representation
- XML representation
- Superset of Data from participating Systems
- Industry Standard representation (RosettaNet)
- Used as Canonical in Publish/Subscribe Integration Pattern
  - Best Practise EAI methodology (3 states/2transformations)
- Meta Data Management
  - Keeping up to date
  - Importance of Regression testing

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## Selection and Governance for CBO

- Use Superset or RosettaNet
  - Object not exposed to outside world – Superset
  - Object that is or would be exposed beyond Company boundaries – RosettaNet
- Use of CBO for new integration
  - Re-use
  - Extend
  - Alter
  - New
- Control of CBOs
  - No unnecessary proliferation
  - Registry Database
  - Specifications template, and Interface use template

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## RosettaNet ...

- Pros
  - Very Verbose (can be Con)
  - Flexible
  - Comes with Data dictionary
  - Other partners using standard do not need to go through Data specification and lengthy mapping exercises
  - Use of RosettaNet PIPs (Partner Interaction Processes)
- Cons
  - Complex Mapping
  - Difficult Change mechanism
  - Difficulty in keeping BO “pure”

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## Governance

- Policies
  - Middleware
  - SOA & CBO
  - B2B connectivity
- Regular Meetings
- Enforcement
- Architecture

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## Governance challenges

- Funding for SOA framework, and Integration Competency Centre functions
  - Architecture investigations
  - Extra costs for 1<sup>st</sup> project to use CBO
  - Training
- Enforcing Policies
  - Project vs Enterprise Goals
    - Costs
    - Time lines
    - Availability of resourcing
  - Ownership of issues

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The End

