

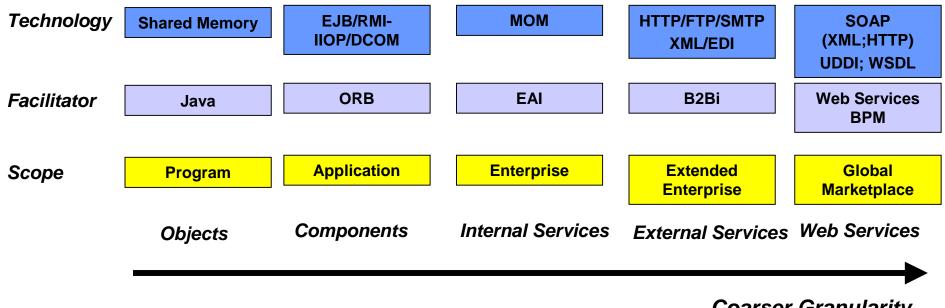
eBusiness Operating System





Web Services Are Evolutionary, NOT Revolutionary

Business Integration Evolution



Coarser Granularity Looser Coupling



Web Services: Application Logic Accessible Using Internet Protocols And A New Set Of Evolving Standards

W hat are the key standards?

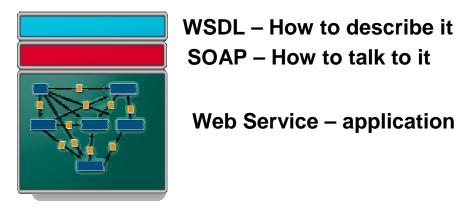
SOAP: set of rules for how to represent data in XML

WSDL: Describes a web services

UDDI: Directory of web services where web services providers to "advertise" their services and users discover web services



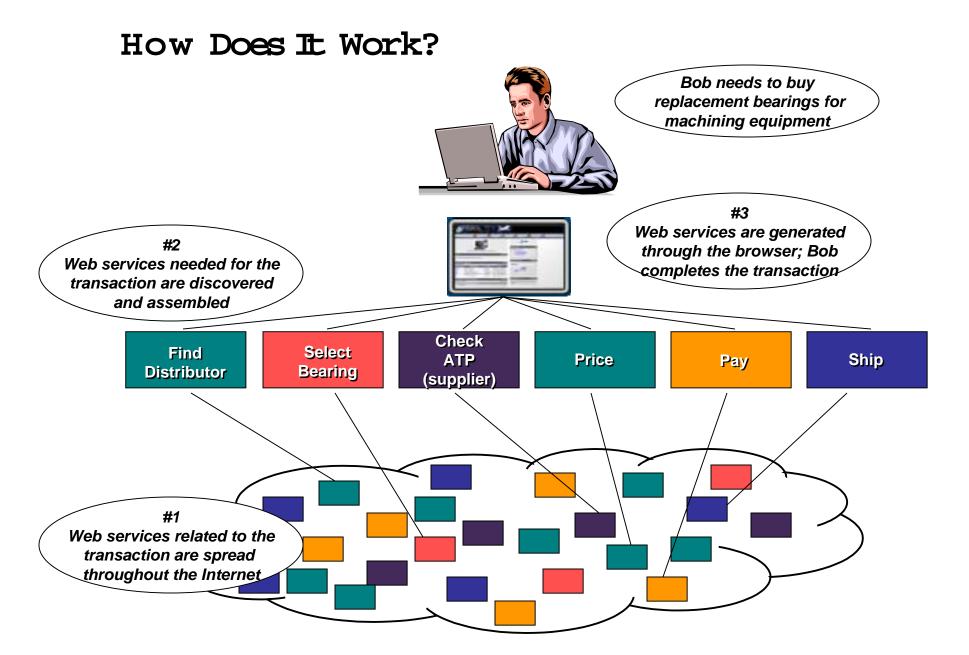
UDDI – How to find it



SOAP - How to talk to it









Is The Web Services Model Technically Feasible? Yes!

However, There Are Significant Practical Limitations And Issues

- How does the world of commerce at large move to a loosely coupled web services model?
 - Expose and register web services
 - Integrate web services
- How do enterprises leverage mainframe/legacy systems?
- How do you manage globalization, personalization, and security/entitlement issues?
- How does this relate to existing trading relationship which drive the majority of enterprise commerce?

Be Careful Not To Confuse A Set Of Standards With A New Architectural, Operations And Management Environment

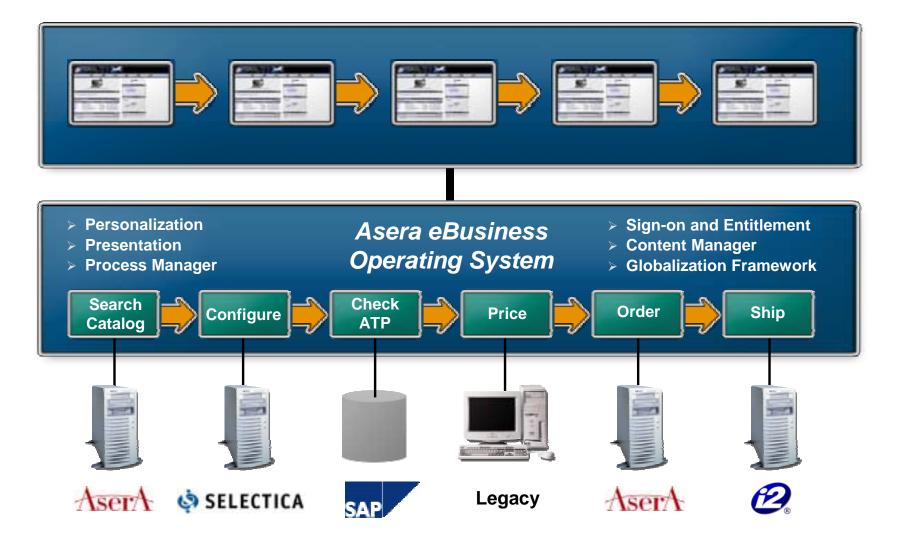


Asera's Philosophy and Approach to Web Services

- Web Services are a component within the broader theme of *composite applications*, which are user-centric business processes that are built from fusing business processes from a wide range of business applications and data sources
- Web Services implementations are largely reliant on the ability to efficiently and intelligently wrap business logic from internal/custom applications and back-end application systems
- The Web Services usage model should include support for complex roles and entitlements with capabilities for customization and personalization to each user depending on specific roles and corporate policies



The Composite Application Model Is Redefining Applications Deployment





Packaged Enterprise Applications Fall Short Of Today's Business Demands

Traditional/Packaged Apps

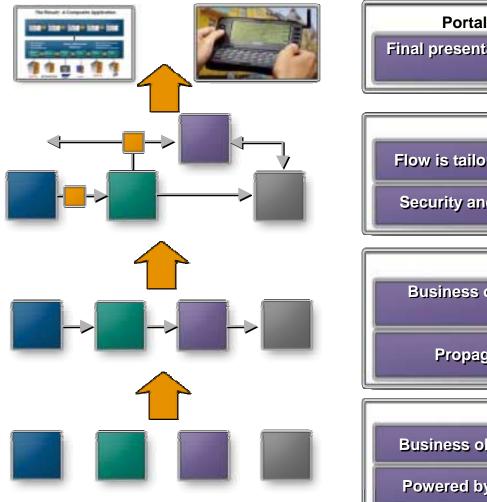
- Pre-defined business processes
- Designed for a single enterprise
- Enterprise-centric
- Self-contained
- Intra-application workflow
- Web-enabled
- Data-base driven
- Customized by developers modifying code
- Rigid
- Heavyweight

Composite Applications

- Configurable business processes
- Designed for collaboration
- User-centric
- > Open, interoperable
- Inter-application workflow
- Web-centric
- Information-based (i-base)
- Configured by business analyst changing business processes
- Flexible, adaptable
- Lightweight



Asera eBusiness Platform Approach



Portal, Filters, Personalization, Presentation

Final presentation is filtered according to personalization rules, language and device

Rules / Entitlement

Flow is tailored through entitlement and business rules

Security and entitlement run across business process

Workflow

Business objects deployed via workflow - creates the "composite process"

Propagate state in multi-application process

XML Business Objects

Business objects represent automation of process tasks

Powered by Asera, legacy or packaged application logic



Adapters & Connectors Allow Composite Applications To Leverage Many Sources

Adapters

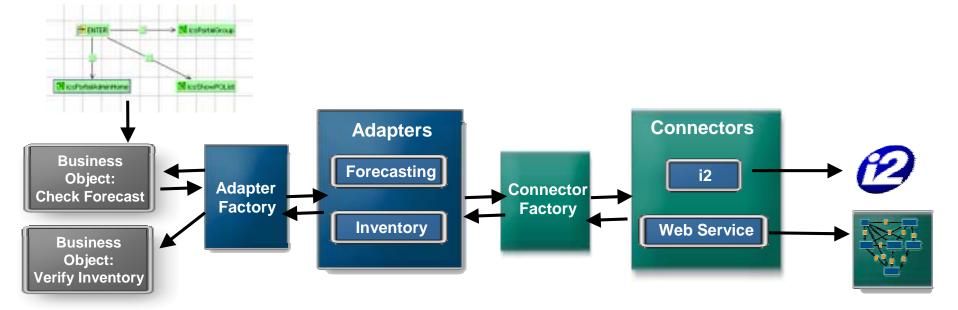
- Provides abstraction between composite application and data source
- "Talks" to different connectors (or multiple connectors)
- Operates synchronous, real-time
- Supports caching and data entitlement

Connector

•"Responds" to adapters with information or processing logic

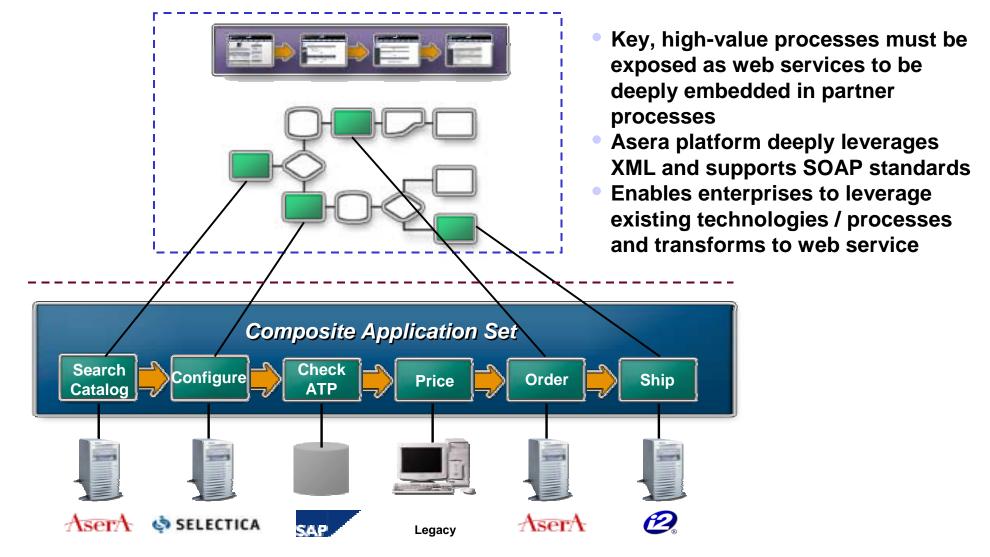
•Facilitates the "swap" of applications to power a given process (e.g, link i2 or Manu for a planning process)

e.g. enCommerce connector, Moai connector, Manugistics connector



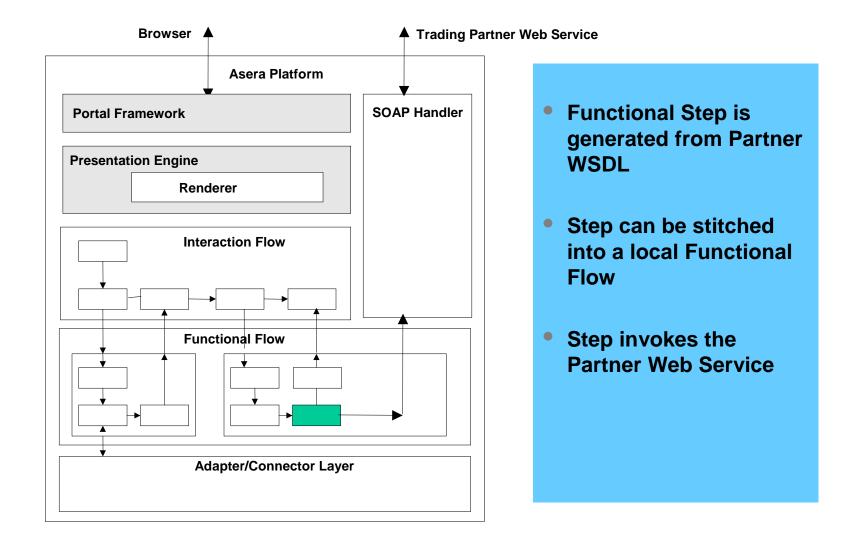


Asera Provides The Architecture Framework To Build And Expose Web Services



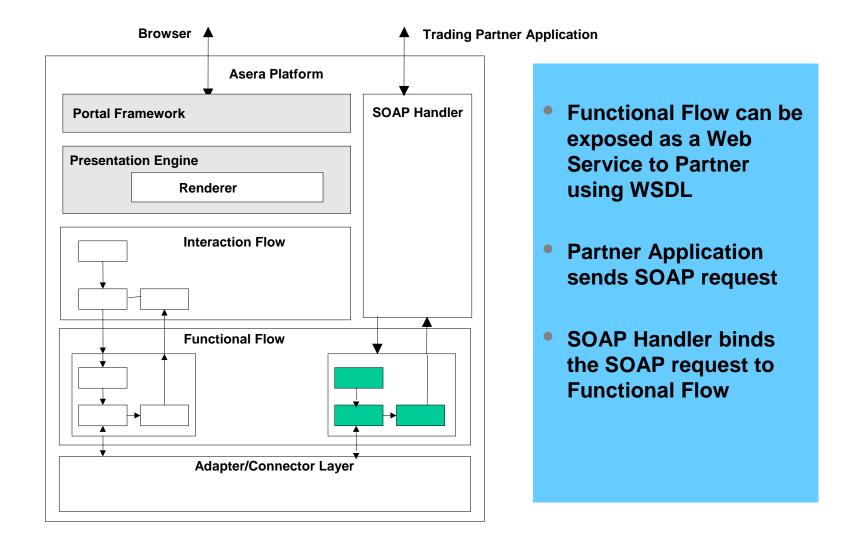


Invoking Trading Partner Web Service





Exposing Web Service to Trading Partner





Asera Provides A Robust Platform for Web Services

- A development environment to *create* Web Services
 - Tool support to generate WSDL from Asera workflow
 - Tool support to distribute WSDL to partners (private Web services)
 - Tool support to publish Web Service to UDDI repository (future)
- A run-time environment to *deploy* Web Services
 - SOAP handler to bind incoming SOAP requests to Asera business processes
 - Web Service mapping to transform incoming XML formats to Asera BO format
 - Security mechanisms for authenticating incoming requests
 - Login Web Service
 - UID/password as special header elements
 - Digital Signatures



Asera Also Provides A Consumer Platform for Web Services

- A consumer environment to invoke Web services
 - Tool support to generate client-side Java stub from WSDL
 - APIs to add security to outgoing SOAP messages
 - SOAP handler to invoke external Web Services
 - Discovery of Web Services through a UDDI registry (Future)
- A consumer environment to assemble and present Web services
 - Business Process and Integration frameworks to bind to both internal and external Web services and fuse them intelligently
 - Robust presentation and application delivery frameworks to deliver user experiences



eBusiness Operating System

