

Public Release - UNLIMITED



***TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.***

Service-Oriented Architecture Foundation

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"If you are not **interoperable**, you are not on the **net**, you are not **contributing**, you are not **benefiting**, and you are not part of the **information age**."

*~ Art Cebrowski, DoD Director, Force Transformation*

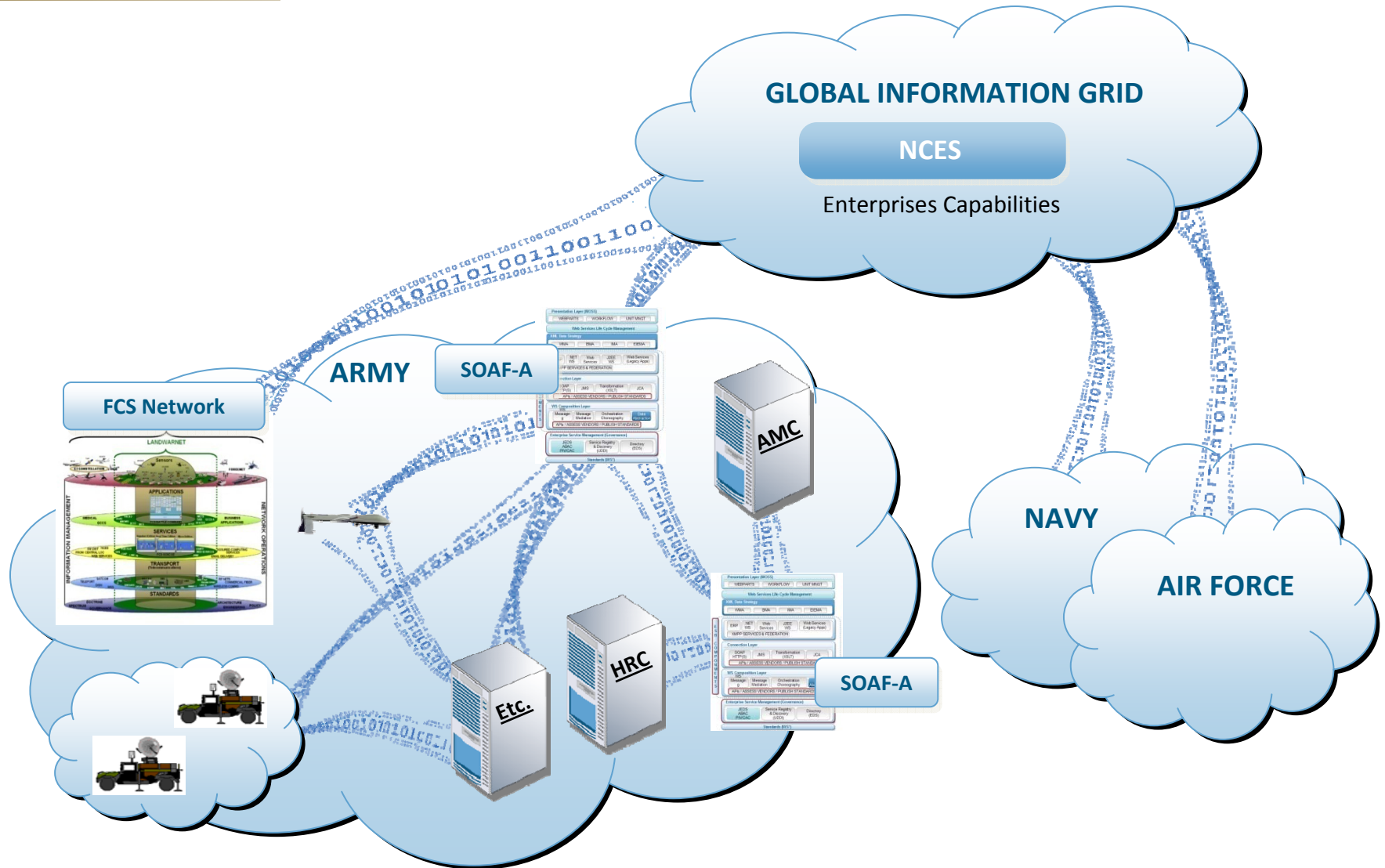


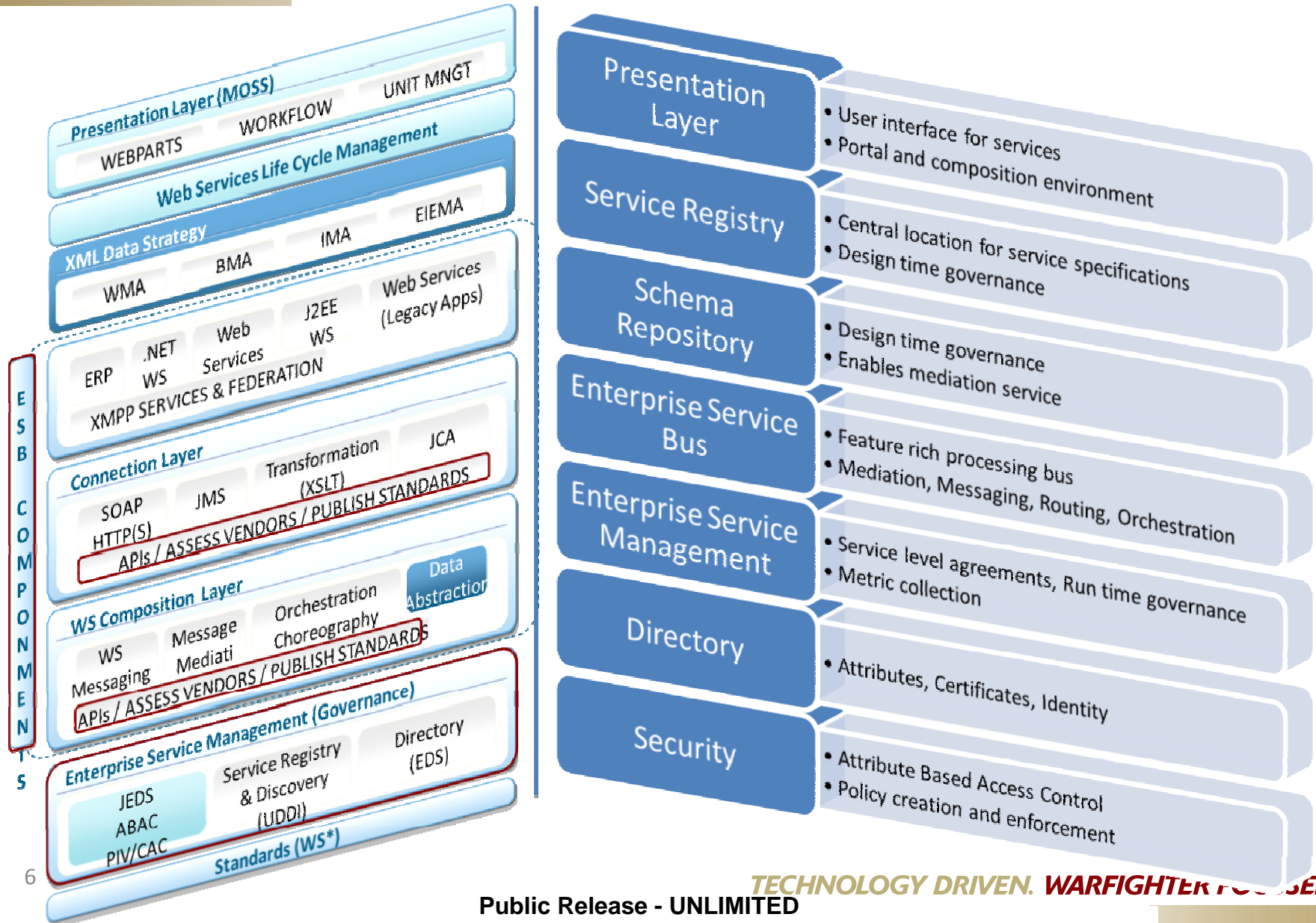
# Agenda



- Overview
- Capability Portfolio
- Threads

- Service-Oriented Architecture (SOA)
  - “Not a product CIOs can buy and install”
  - “...requires changes in peoples behavior”
    - ~ L. Frank Kenney, Gartner
  
- SOA Foundation
  - Enabling infrastructure
    - Development Environment
    - Execution Environment
    - Management Environment
    - Test Environment
  - Should be the first thing put in place





CAPABILITY	ARTIFACT
<p><b>Reference Implementation</b></p> <ul style="list-style-type: none"> <li>Enterprise Stack</li> </ul>	
<p><b>Reference Implementation</b></p> <ul style="list-style-type: none"> <li>Open Source/GOTS Stack</li> </ul>	

"Service Oriented Architecture is a paradigm for organizing and utilizing distributed capabilities that may be under the control of different ownership domains."

*~ OASIS SOA Reference Model*





# Agenda



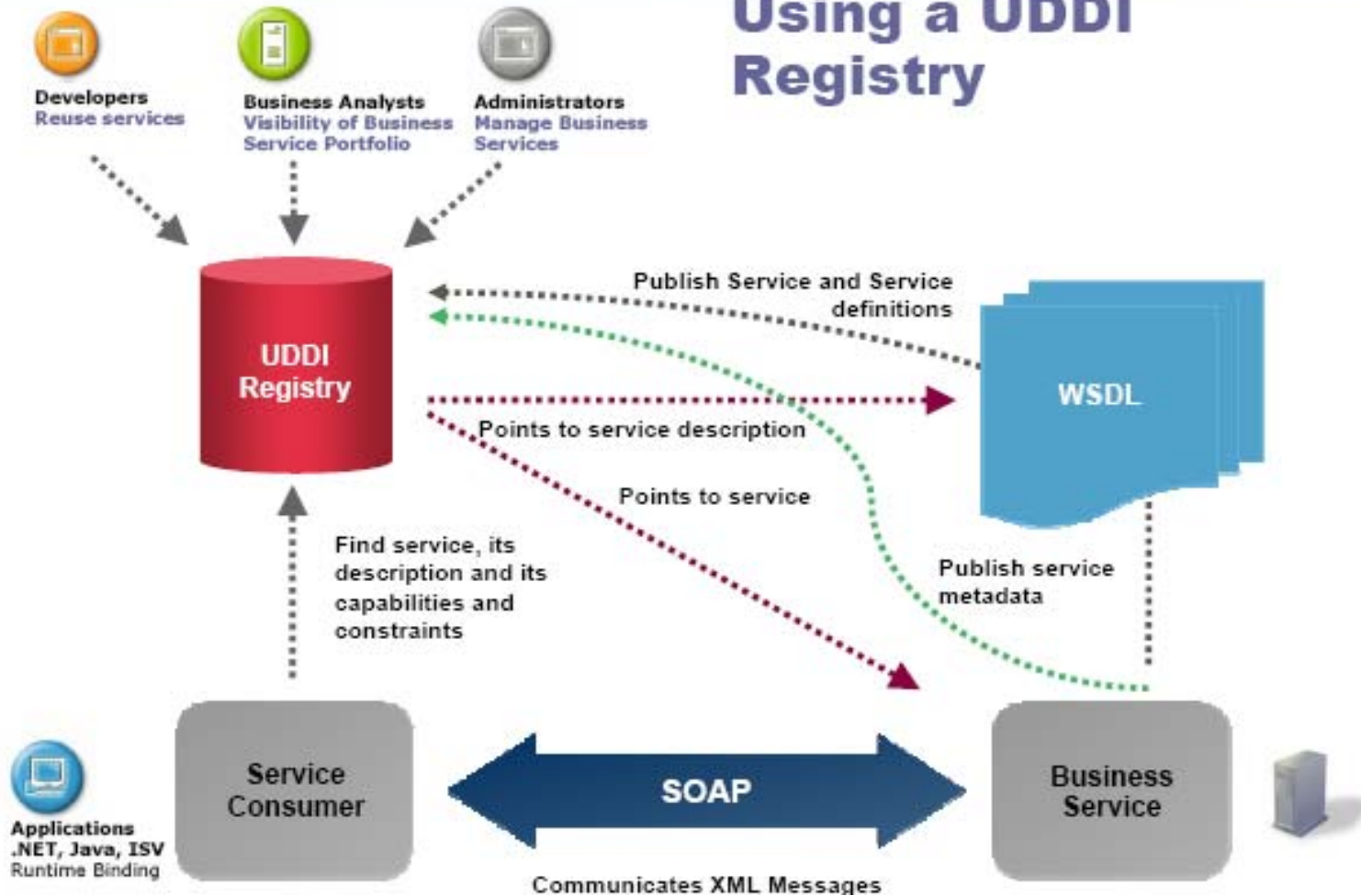
- Overview
- Capability Portfolio
- Threads

- Product
  - Microsoft Office SharePoint Server
  - JBoss Portal
- Standards
  - Web Services for Remote Portlets(WSRP)  
[http://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=wsrp](http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=wsrp)
- Description
  - User facing side of SOA stack
  - Contains user interface to services
  - Composable, Can be connected
  - Can be entry point for user credentials

- Product
  - HP/Systinet, jUDDI, Novell Nsure
- Standards
  - Universal Description Discovery & Integration(UDDI)  
[http://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=uddi-spec](http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=uddi-spec)
- Description
  - White pages for services
  - Contains service specifications, businesses, descriptions
  - Defined taxonomy

OASIS

## Using a UDDI Registry



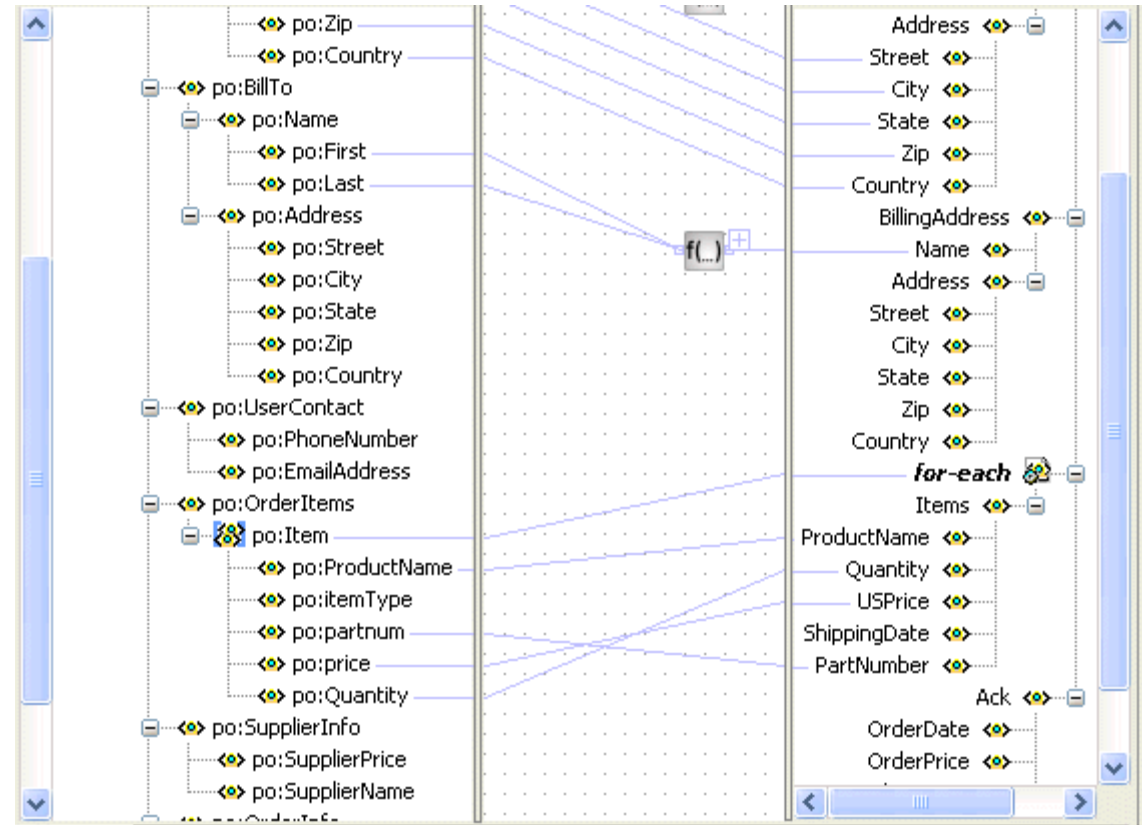
[http://www.oasis-open.org/presentations/uddi\\_v3\\_webcast\\_20050222.pdf](http://www.oasis-open.org/presentations/uddi_v3_webcast_20050222.pdf)

- Product
  - HP/Systinet Repository
- Standards
  - ?
- Description
  - Full featured content/document management, search, policy
  - Offered by major registry vendors as an add-on
  - Information store for data definitions in addition to other service artifacts (i.e. compliance reports)
  - Enabler for automated mediation methods

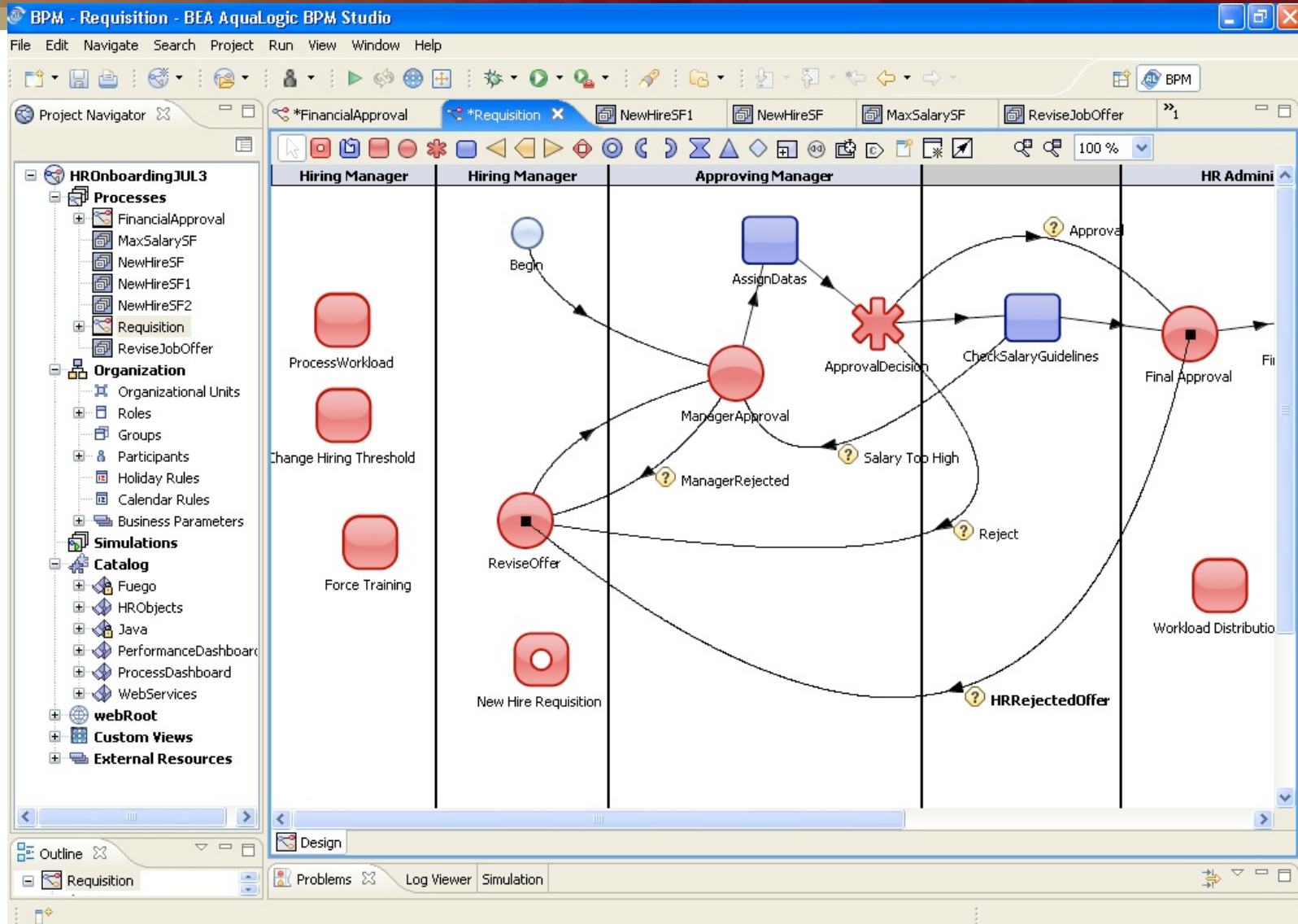
- Product
  - BEA Aqualogic, Apache ServiceMix, MS BizTalk
- Standards
  - BPEL, XSLT, WS-ReliableMessaging, WS-Policy, ...
- Description
  - Asynchronous messaging backbone including capabilities for reliable messaging, transformation and content based routing
  - Orchestration and workflow
  - Catch all term coined by Gartner

## Oracle/JDeveloper

- Mediation
- Transformation
- Based on schemas



<http://download.oracle.com/otndocs/products/bpel/orderbooking.pdf>



[http://edocs.bea.com/albsi/docs60/resources/ALBPM6.0\\_NewFeaturesOverview.pdf](http://edocs.bea.com/albsi/docs60/resources/ALBPM6.0_NewFeaturesOverview.pdf)



" I have always believed that the real business value of SOA is not so much about IT cost reduction but really about being able to react quickly to change."

*~ David A. Chappell, Oracle*

[http://www.oreillynet.com/xml/blog/2008/01/more\\_more\\_on\\_defending\\_soa.html](http://www.oreillynet.com/xml/blog/2008/01/more_more_on_defending_soa.html)



- Product
  - AmberPoint, Nagios
- Standards
  - Web Services Distributed Management(WSDM)  
[http://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=wsdm](http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=wsdm)
- Description
  - Metric collection on live SOA
  - Collection Approaches:
    - Agents inside service hosting environment
    - Service themselves report events
    - Managed proxies

- Products
  - MS Active Directory, Fedora Directory Server
- Standards
  - Lightweight Directory Access Protocol(LDAP)  
<http://tools.ietf.org/html/rfc4510>
- Description
  - Repository for both users and machines
  - Identities, certificates, and attributes

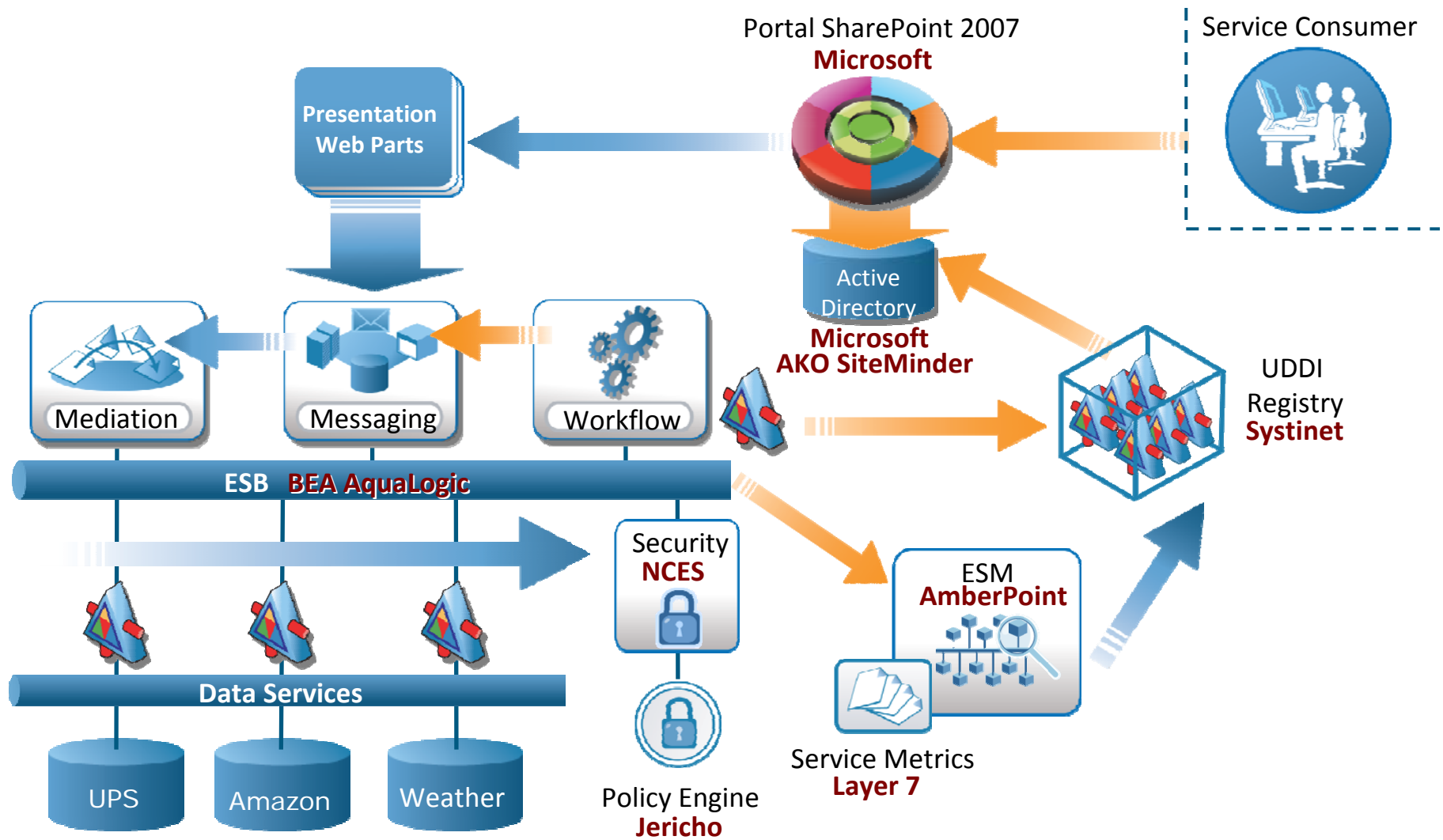
- Product
  - Jericho, Layer 7
- Standards
  - Security Assertion Markup Language(SAML)  
[http://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=security](http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=security)
- Description
  - Protocol used in SOAP messages for transmitting identity information
  - Leveraged in Attribute Based Access Control schemes



# Agenda



- Overview
- Component Survey
- Threads





"Out of Many, One"