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Oracle B2B 12c

Product Overview

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Industry Trends

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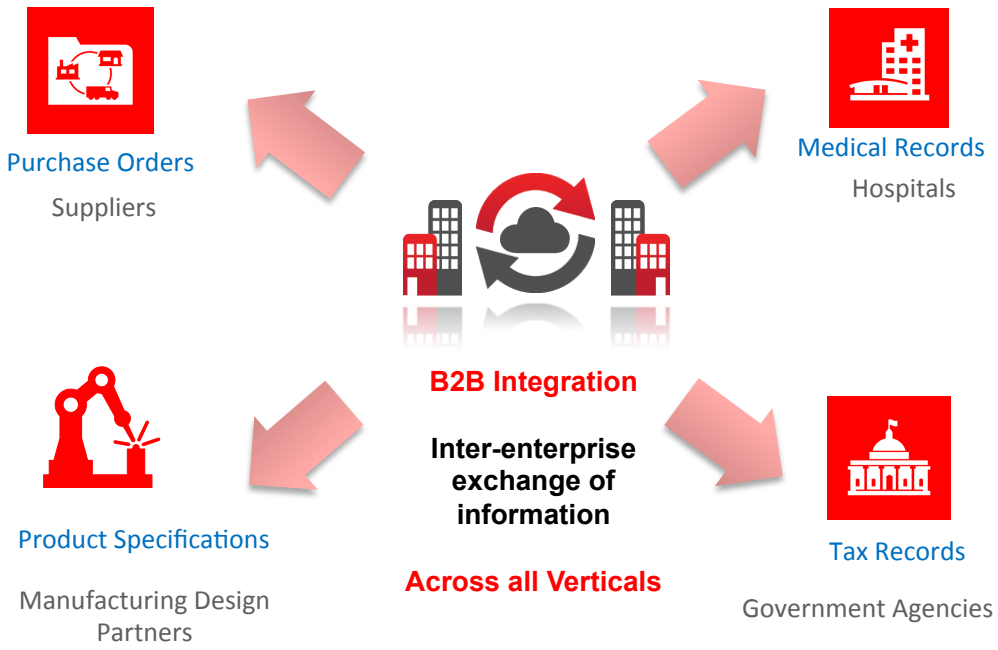
What is the Problem We Are Solving



- Electronic exchange of business documents such as **EDI** purchase orders over standards such as **AS2 and ebXML**
- **Secure** exchange outside the enterprise with business partners in all verticals
- Enterprises adopting B2B solutions to **automate** exchanges, **reduce costs** and adhere to **compliance** requirements

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B2B Market
Industry Trends

- **More companies are adopting B2B solutions**
  - Reduce IT costs, improve business process efficiency, increase visibility, enhance customer relationships
- **Increased compliance requirements**
  - Health Insurance Portability and Accountability & Sarbanes Oxley Acts
  - eInvoicing regulations in Europe and South America
- **B2B Managed Services** or Business Integration Outsourcing (BIO) is becoming popular
  - "Dumb" networks have become "Smart" networks with SOA, visibility, HA, etc.
  - Better budgeting, decrease in cost and increase in ROI
  - Ability to adapt to changing customer requirements
  - Enhanced trading community management

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Top 3 Business Impacts of a B2B Solution

"Companies will soon do more B2B integration than application-to-application (A2A) integration" - Gartner

1) **B2B drives down overall IT costs**
   - automating tasks, reducing errors & reducing delivery cycle times
2) **B2B increases compliance, security and data protection**
   - use of standards, improved data quality & security
3) **B2B provides competitive advantage**
   - increasing ROI & real time visibility and improving trading partner relationships

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Problems with Existing Mechanisms

- **Manual exchange through phone/fax/email**
  - slow, error prone and increases cost of operations
- **Traditional B2B VAN solutions**
  - expensive with minimal control and visibility
  - Value-added networks (VAN) are hosted EDI solutions - intermediaries between trading partners providing support for document processing and routing
- **Custom Solutions**
  - point to point, do not scale and difficult to maintain
- **Lack of end to end visibility**
  - from applications to trading partners
- **Not integrated with standards**
  - need to adopt standards to comply with regulations and interoperability with trading partners

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B2B Adoption Patterns

On-premises B2B Gateway	Software-as-a-Service	Vendor Consolidation
Extending applications and business processes to external trading partners	Hosted/Cloud B2B services	Consolidation of legacy B2B gateways onto a shared integration infrastructure

Across all verticals: High Tech, Transportation, Travel, Telco, Supply Chain, Healthcare

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Product Overview

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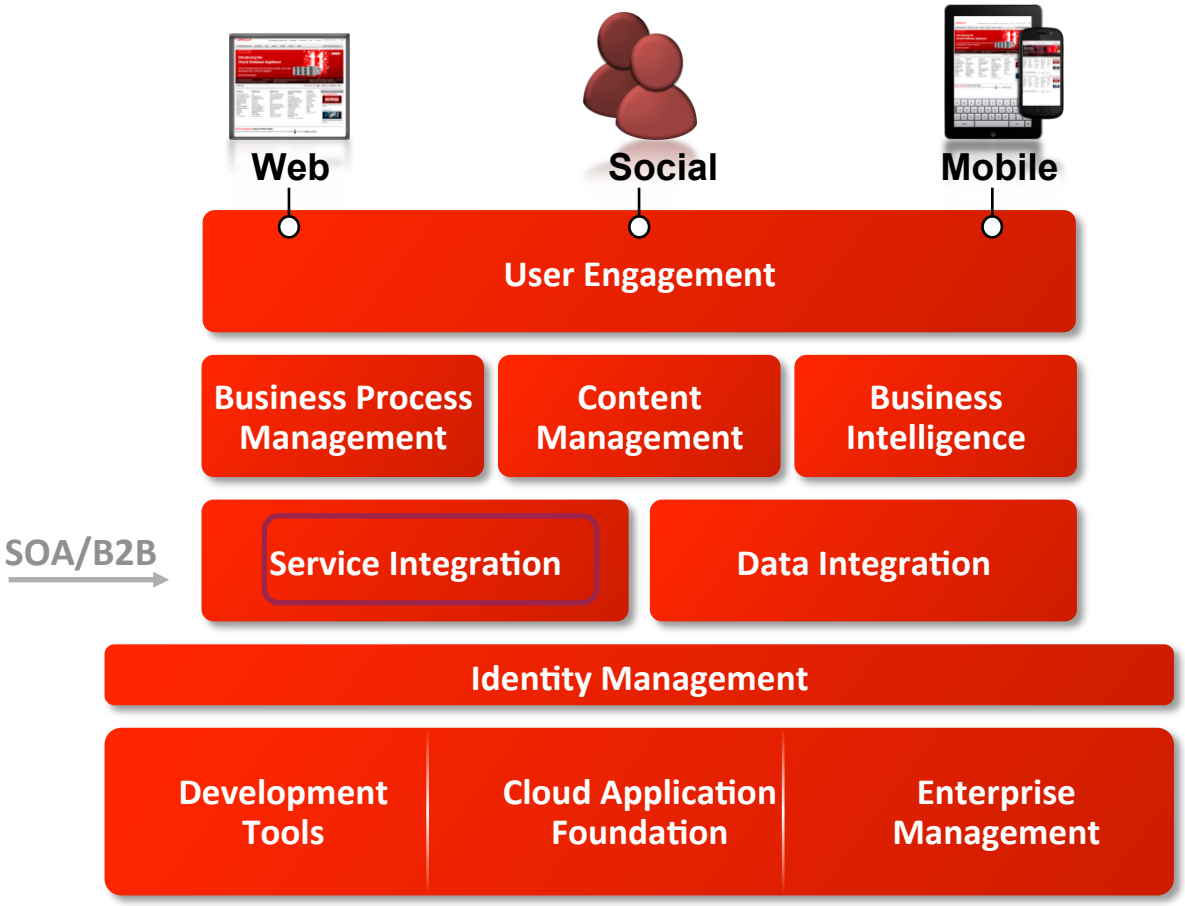
Oracle Fusion Middleware
Business Innovation Platform



- Complete
- Integrated
- Best-in-class
- Open
- On-premise and Cloud

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Product Architecture

Message exchange using Delivery Channels

Exchange & Document Plugins process messages

Integration with middleware by AQ/JMS / In-memory

Runtime instance data in B2B Reports, BAM, Third-party Tools

MDS
(design time metadata)

B2B Console

B2B Engine

File / FTP
AQ / JMS
In-memory
Web Services
And more..

Document Plugin
Exchange Plugin
Runtime Processing

File / FTP
HTTP/TCPIP
AS1/AS2
ebMS / WS
And more..

Delivery Channels
Listening Channels

Trading Partner Community

SOA Composite/OSB

Extensive Transformation Support

Internal Delivery Channels

Translation

Application Message (XML)

Business Message (XML)

Wire Message (Native Format)

Runtime instance data

B2B Reports

Oracle BAM

Third Party Reporting Tools

Mobile Devices

Weblogic Server

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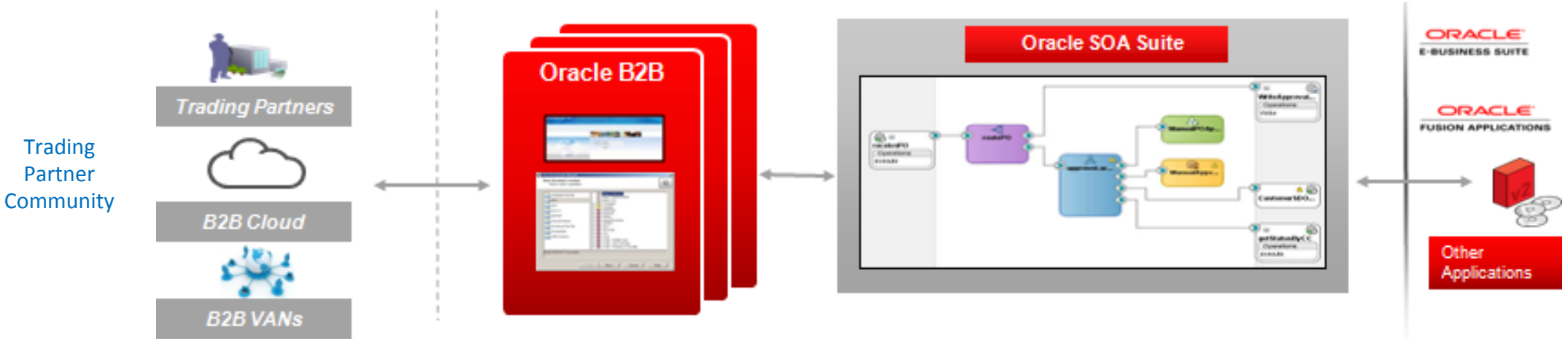
Oracle B2B



A standards-based, scalable, HA solution to integrate and automate your business processes with trading partners

- Allows B2B document exchange electronically, quickly and more accurately
- Improves **data quality**, reduces risk, improves **visibility** & **security**
- Leverages investment in FMW: WLS and SOA
- Support for over **40,000** documents such as **EDI** and exchanges such as **AS2** and **ebXML**

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Oracle B2B 12c
Feature Rich and Extensible

Rich Feature Support

- One platform for all B2B protocols
- Multiple protocol support including EDI, RosettaNet, Custom XML etc.
- Multiple vertical standards support
- Complete lifecycle support from TP creation to enablement & deployment
- Product features such as cloning, auto generation of agreements etc.

Integrated Scalable Solution

- Installed as part of SOA Suite installation
- Tightly integrated with other SOA components
- Complete modeling support using SOA tools
- End-to-end visibility including B2B and SOA using SOA tools
- Easy application extensibility to trading partners
- High scalability and performance

Easy to Use

- Single UI for most tasks – graphical UI with no coding
- Command-line utility for automating operational tasks
- Self-service utility for easy on-boarding of Partners and their metadata

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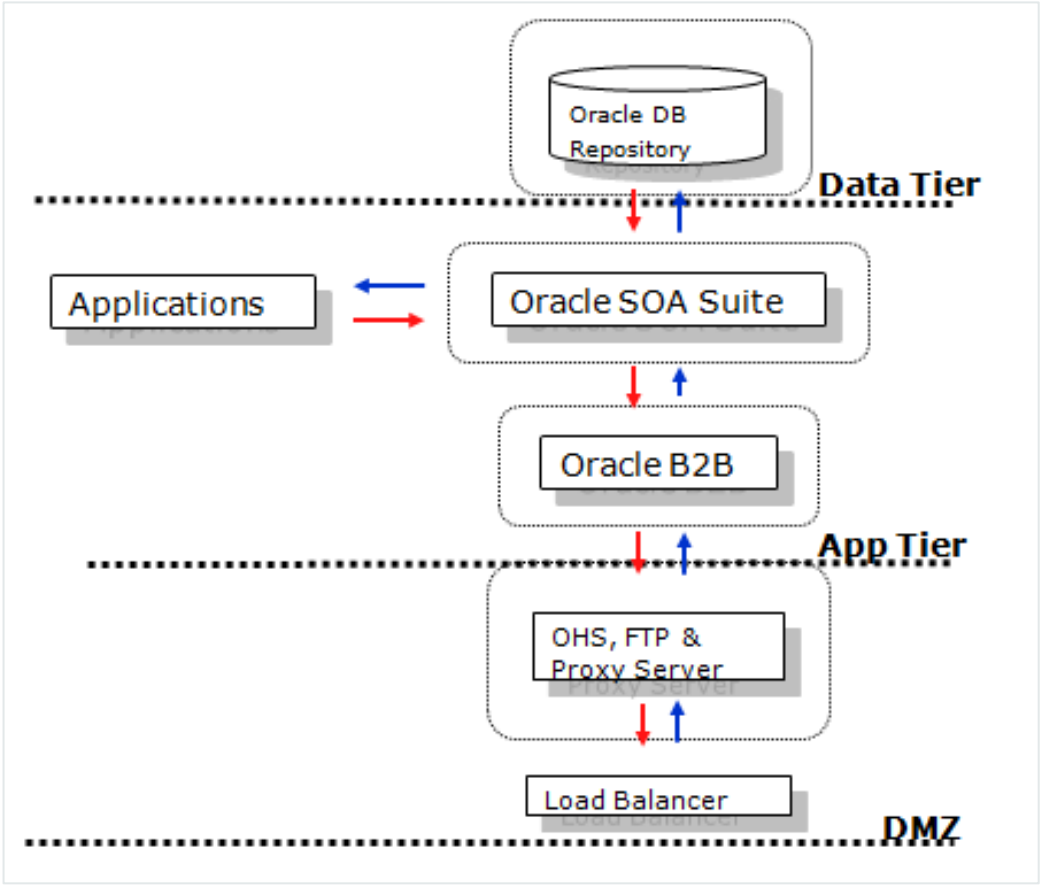
Product Deployment

Typical Setup

Oracle B2B as a standard recommended configuration

- HTTP Client
- FTP Client
- Mail Client
- MLLP Client & Server
- TCP/IP Client & Server



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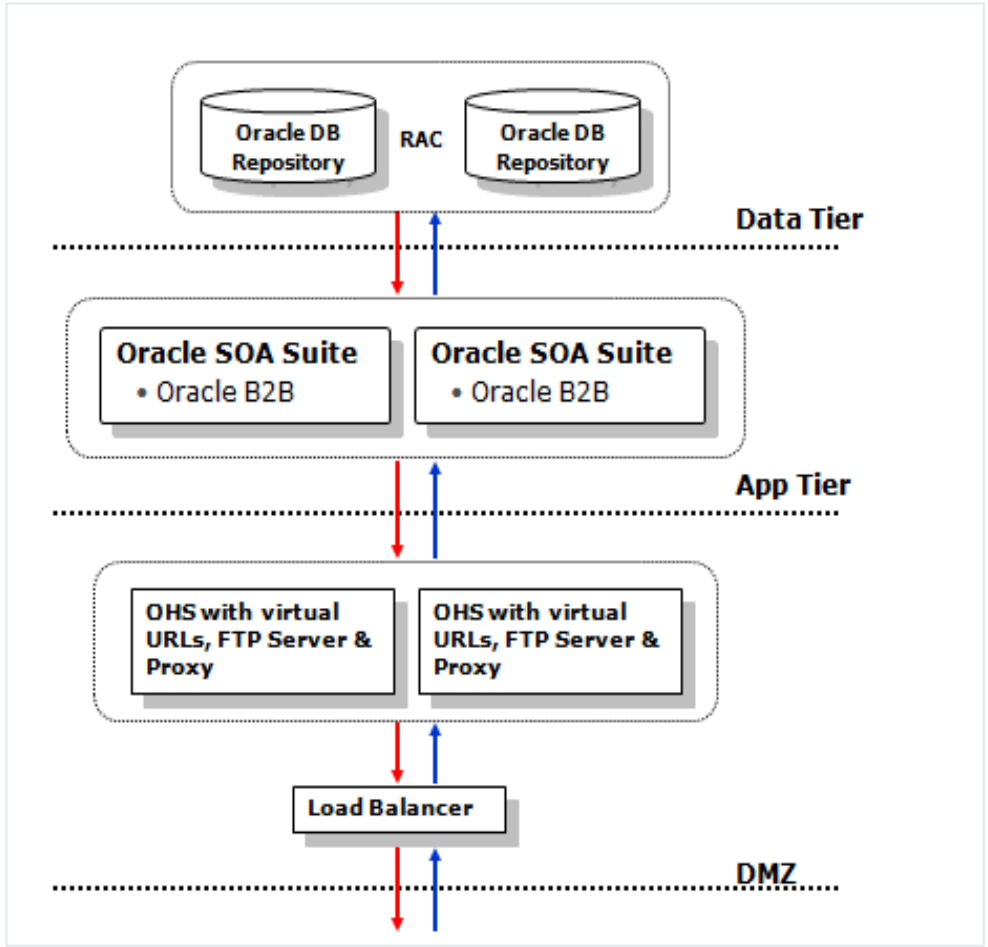
Product Deployment

Large Scale High Volume

Oracle B2B in a cluster

- HA Failover
- High Volume Large Scale Implementations



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Web Based Modelling

Complete, Intuitive, Easy to Use UI

- **Document Management**

  Create, validate, translate, batch documents

- **Transports & Exchanges**

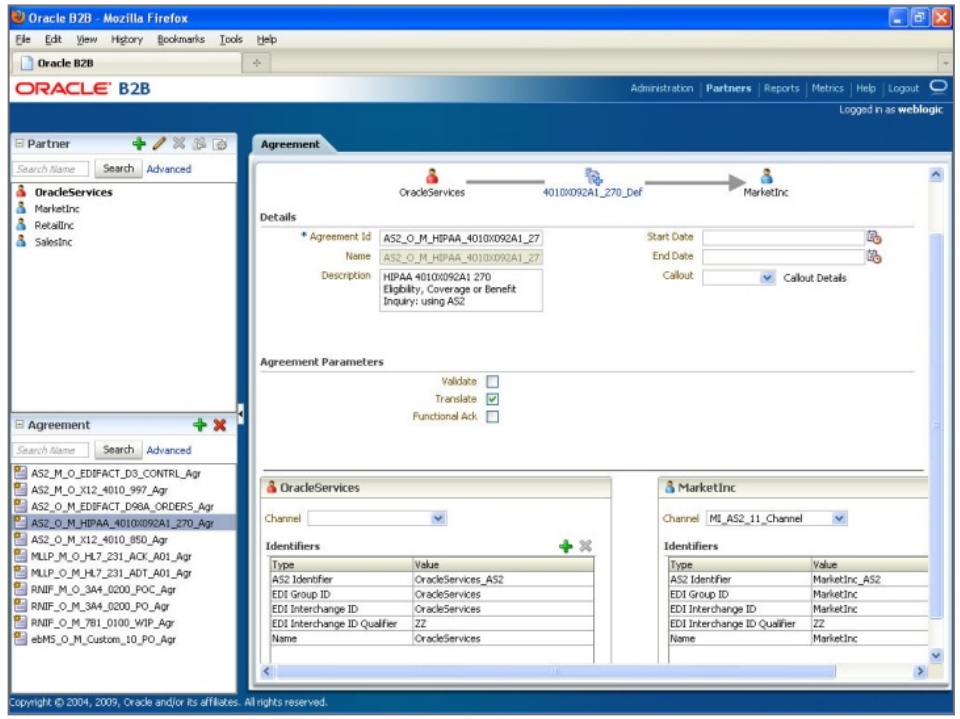
  Define exchanges, security

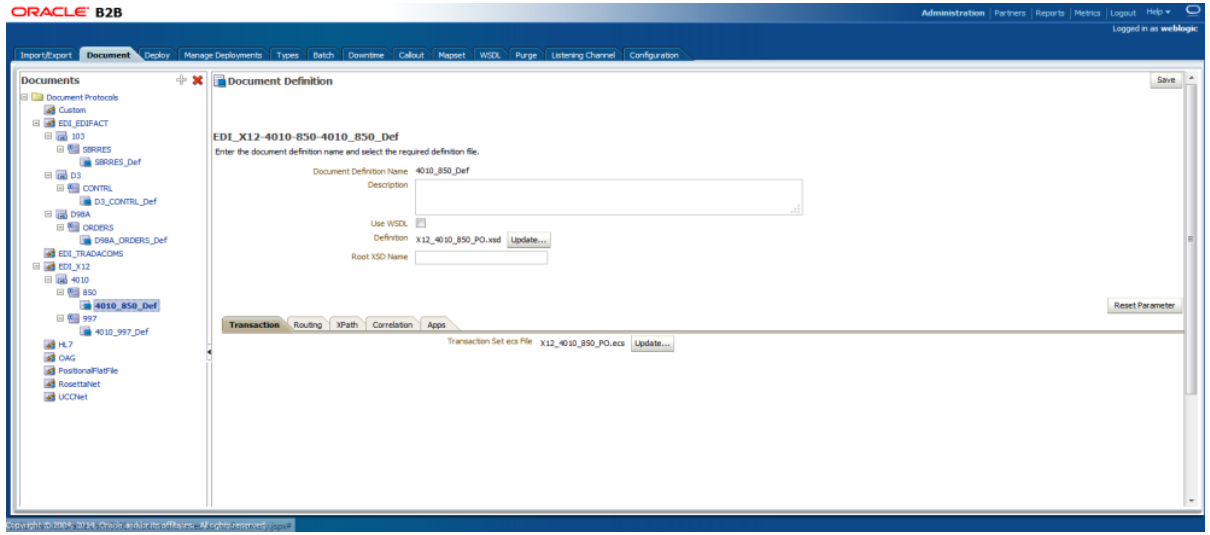
- **Trading Partner Management**

  Create partner profiles

- **Agreements**

  Define partner agreements





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Reports and Monitoring
B2B Reports & Metrics

Reports

- **Application Message**

  What was sent or received to middleware

- **Business Message**

  The translated message

- **Wire Message**

  What was sent or received to Partner

- **Error Message**

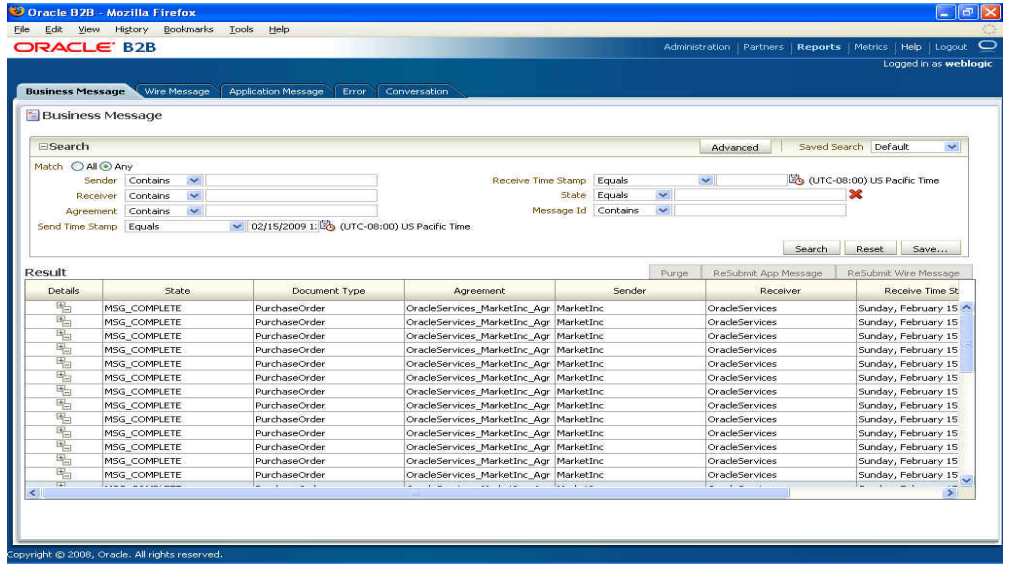
  Processing Errors

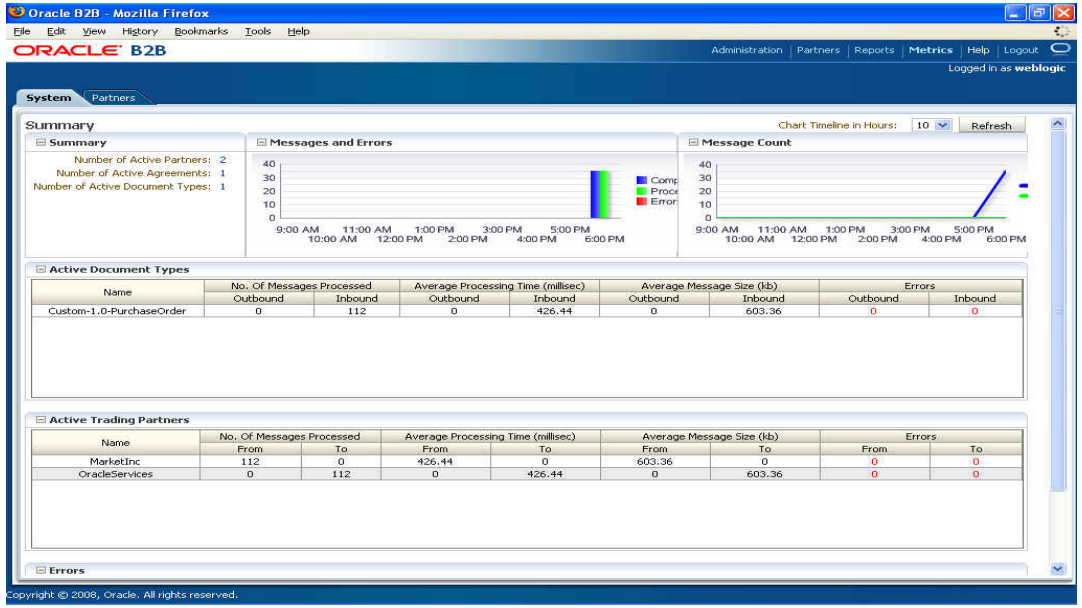
- **Conversation**

  Correlation of Messages

Metrics

System & Partner Statistics





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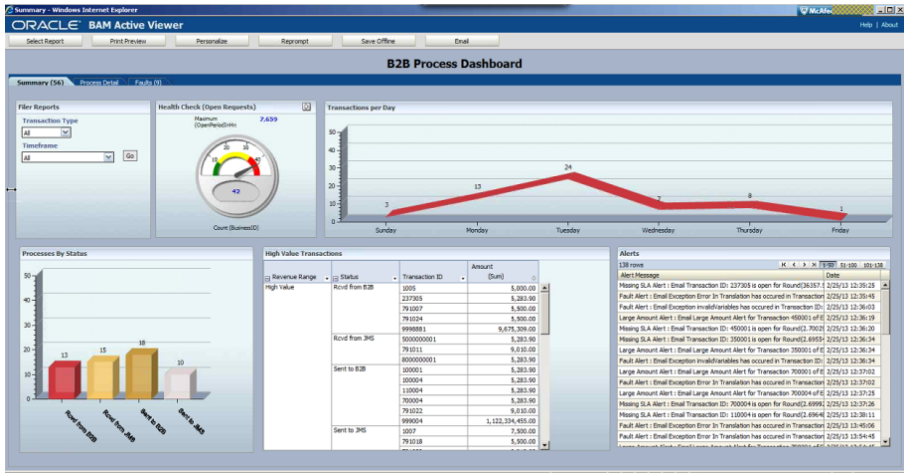
Management
Business Management

B2B with Oracle BAM

- Alert for manual intervention or automate actions on certain current Business level dynamic reports
- Monitor partner KPIs in real-time
  - Examples
    - -total order value by partner
    - -SLA violations by partner
    - -number of large orders
    - -orders pending delivery
- Alert for manual intervention or automate actions on certain current conditions



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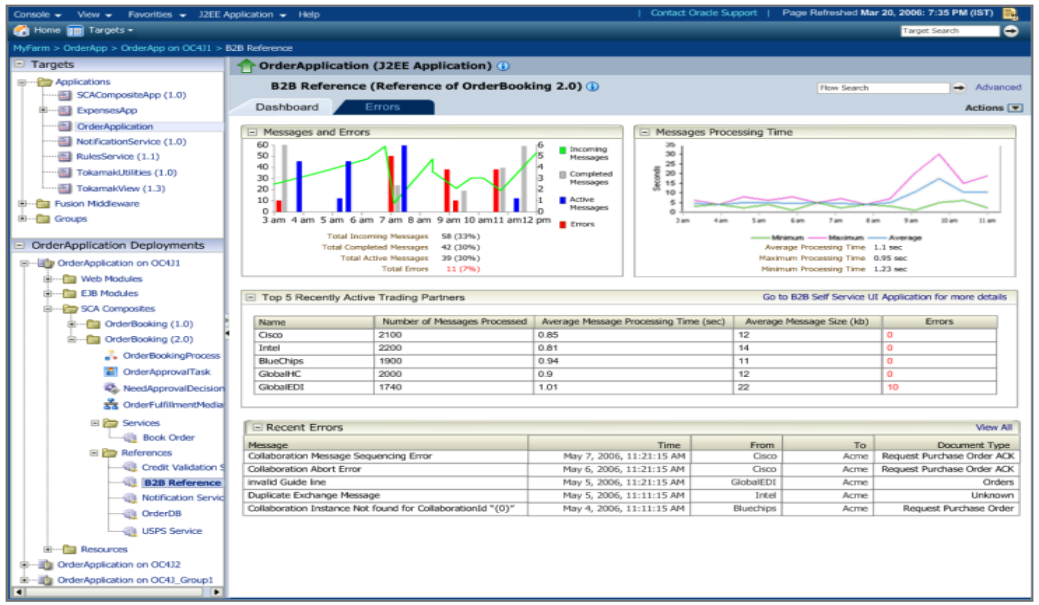
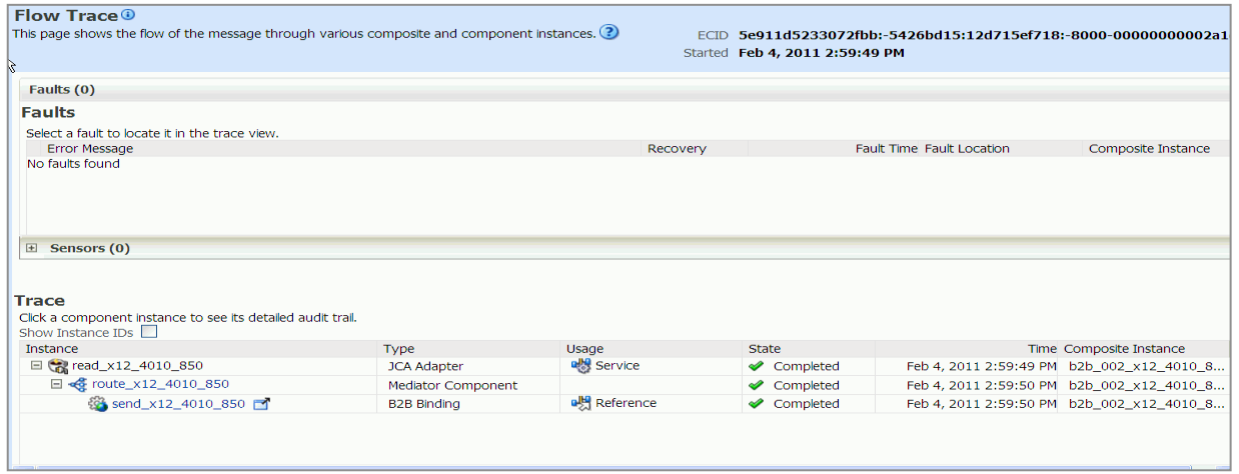
Management
System Management

Oracle Enterprise Manager 12c: Fusion Middleware Console

- Manage B2B endpoints
- Manage composites, components
- View log level and log files
- End-to-end instance tracking
  - Direct link from EM composite flow trace to B2B Reports & vice versa

Complete end-to-end visibility





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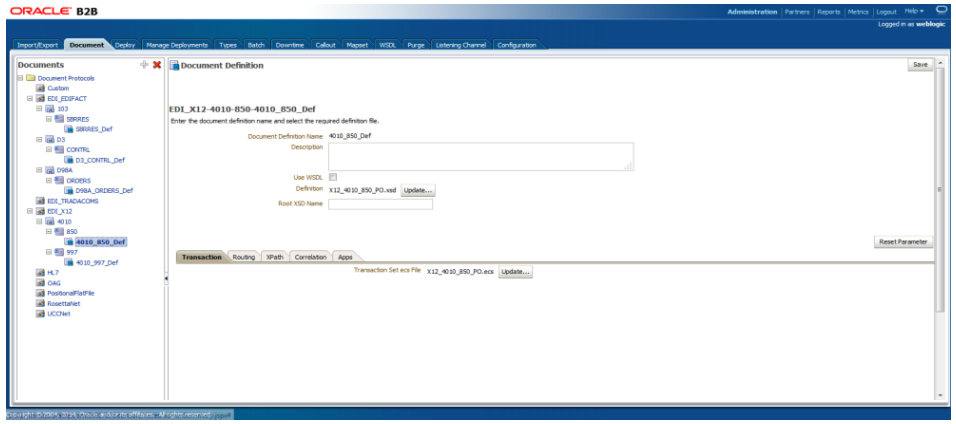
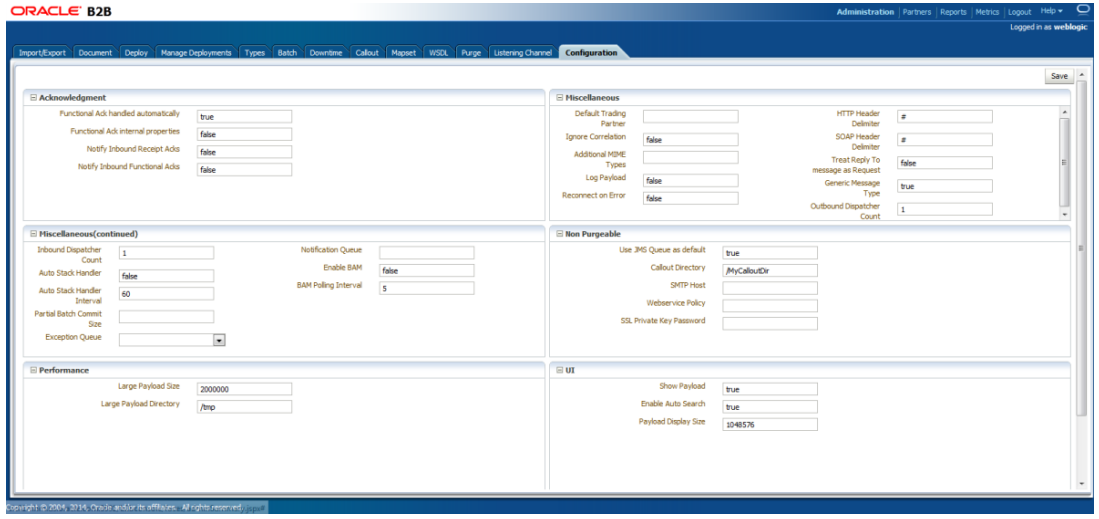
Management
Managing B2B Infrastructure

Out of the box utilities to simplify operations management

Deploy	Monitor / Query / Deployed Agreements
Manage Deployments	Manage Deployment states
Types	Create Partner identifiers & contacts
Import / Export	Metadata: Repository / Agreement
Schedule/Manage Batch	Schedule / Query: EDI Batching
Callouts	Define java callouts & parameters
Purge	Purge Design / Instance data
Listening Channels	Define Host Listening Channels
Configuration	Define System Parameters

UI Console and Command Line Scripts for automation





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Oracle B2B 12c
Documents / Transports / Exchanges / Features

Document Support
- *HL7*
  - *CDS | CRS*
- *HIPAA*
  - *External code list*
- *X12N*
  - *Healthcare*
  - *Life & Annuity*
  - *Property & Casualty*
- *NCPDP*
  - *Telecom*
  - *Batch*
  - *Script*
- *CCD*
- *DICOM*
- *Positional files*
- *Flat files*
- *W3C XML Schema*
- *UB92*
- *OAGIS*

Document Support
- *xCBL*
- *cXML*
- *UBL*
- *eHR-XML*
- *papiNet*
- *1Sync*
- *ebXML*
- *STAR*
- *RosettaNet*
- *CIDX / PIDX*
- *VDA*
- *EANCOM*
- *EDIFACT*
- *EDIFICE*
- *EDIEL*
- *X12*
- *TDDC*
- *WINS*
- *VICS*

Transports
- *MLLP*
- *TCP/IP*
- *Oracle AQ*
- *JMS*
- *FTP*
- *FTPs*
- *sFTP*
- *HTTP*
- *HTTPs*
- *SMTP*
- *IMAP*
- *POP3*

Exchanges
- *AS1*
- *AS2*
- *AS4*
- *ebMS*
- *RNIF*

General
- *EDI Batching*
- *Auto management of Acknowledgements*

Security
- *Central Mgmt*
- *SSO*
- *Document Provisioning*
- *Document Obfuscation*

Performance
- *Enhanced throughput*
- *Large document support*

Usability
- *Enhanced UI design*

Visibility
- *Enhanced Reports*
- *Metrics Reports*
- *EM Integration*

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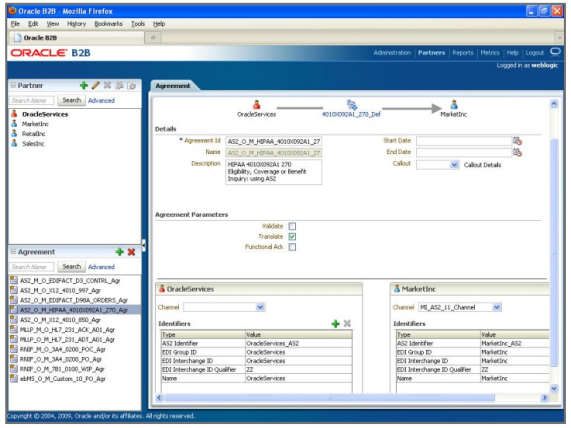
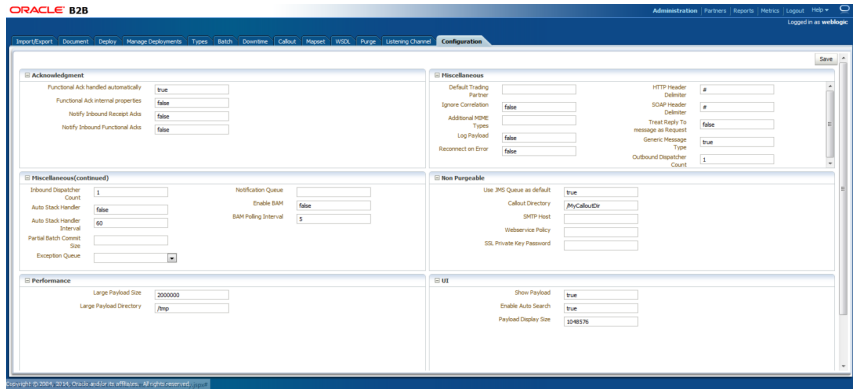
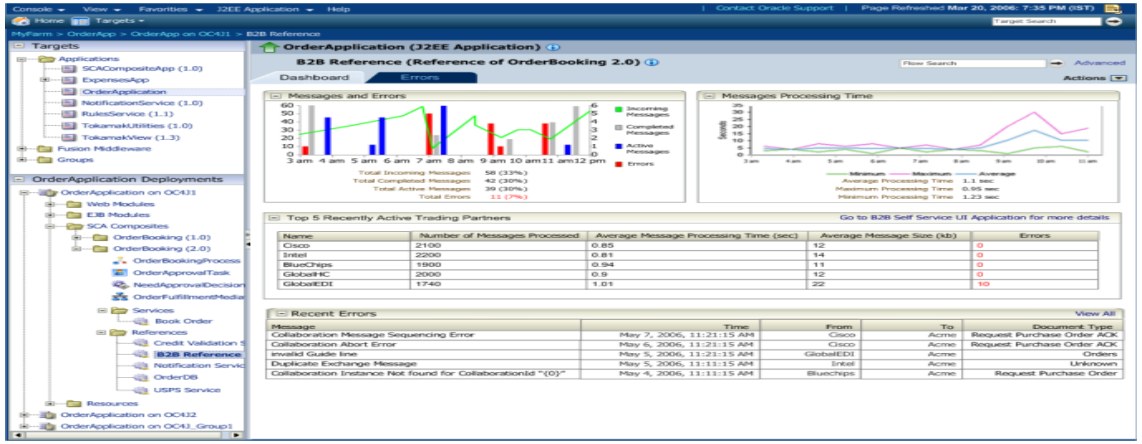
Summary

- Very modern and comprehensive B2B solution
- Benefitting from cloud adoption
- Unified infrastructure – lowering cost, improving operational efficiency
- Handling largest, and most demanding SLA requirements for performance, scale, high availability
- Rich roadmap to deliver vertical, and horizontal features







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Team Blog

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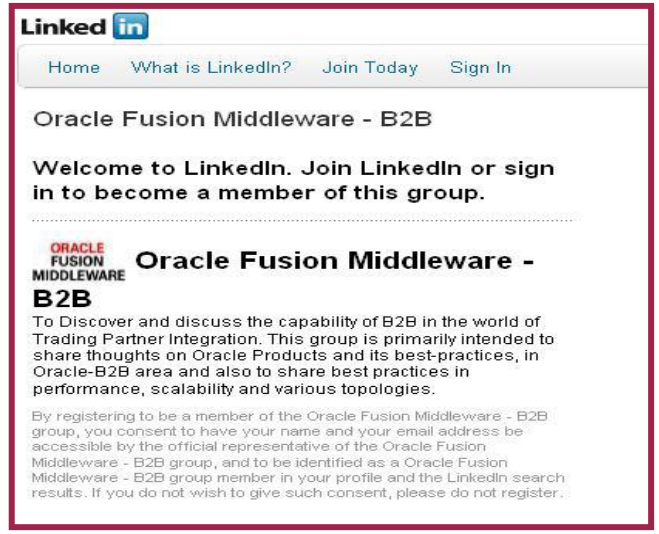

B2B Book

New

http://www.packtpub.com/getting-started-with-oracle-soa-b2b-integration-hands-tutorial/book

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