How Oracle SOA helps you to stay connected to your Supply Chain

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Program: Agenda

1. Introductions
2. SOA Overview
3. Case Study
   - Challenges
   - Solution
   - Design
   - Benefits
   - Lessons Learned
4. About Jade Global
5. Q & A

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Introductions

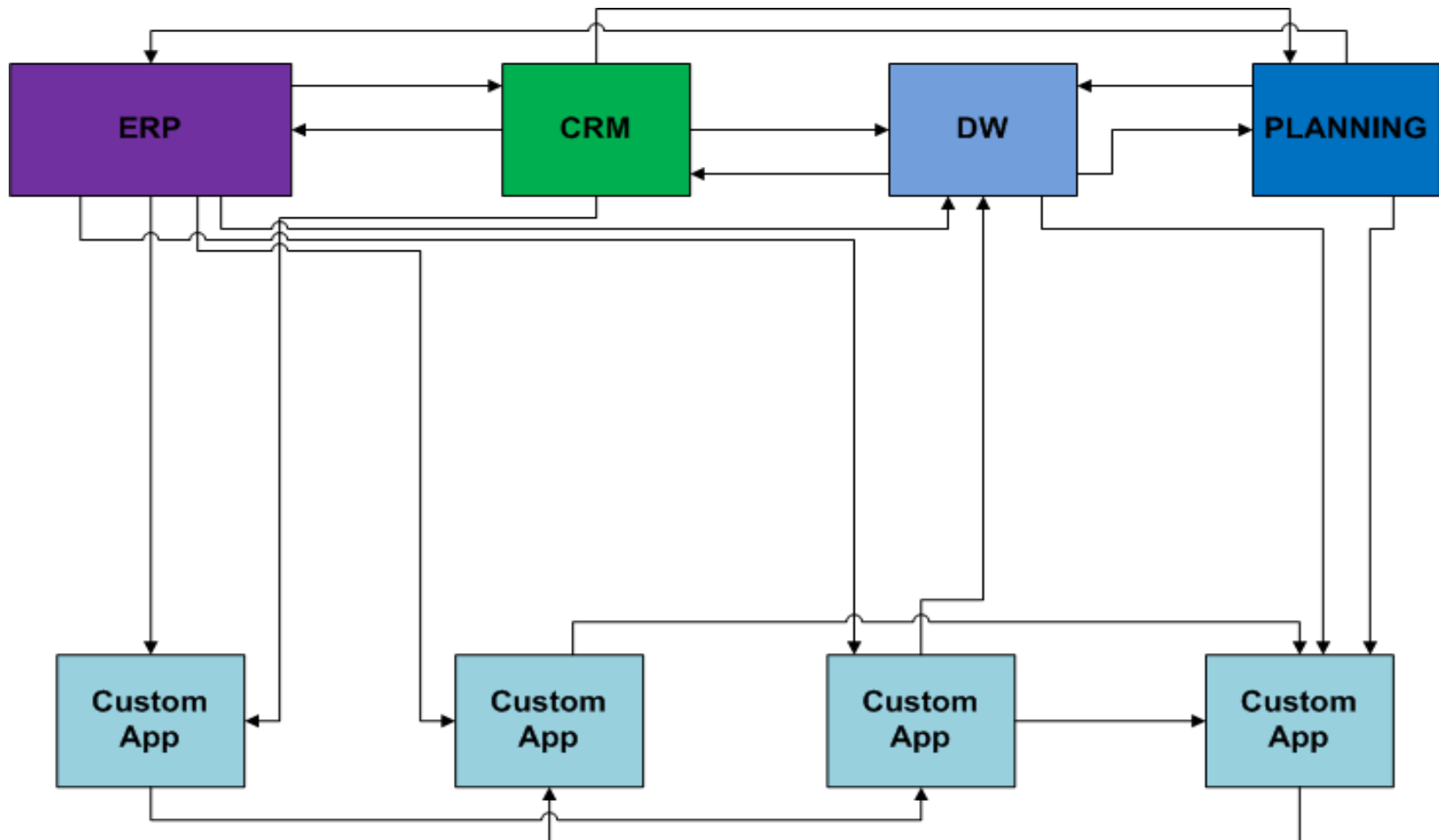Kranti Atluri
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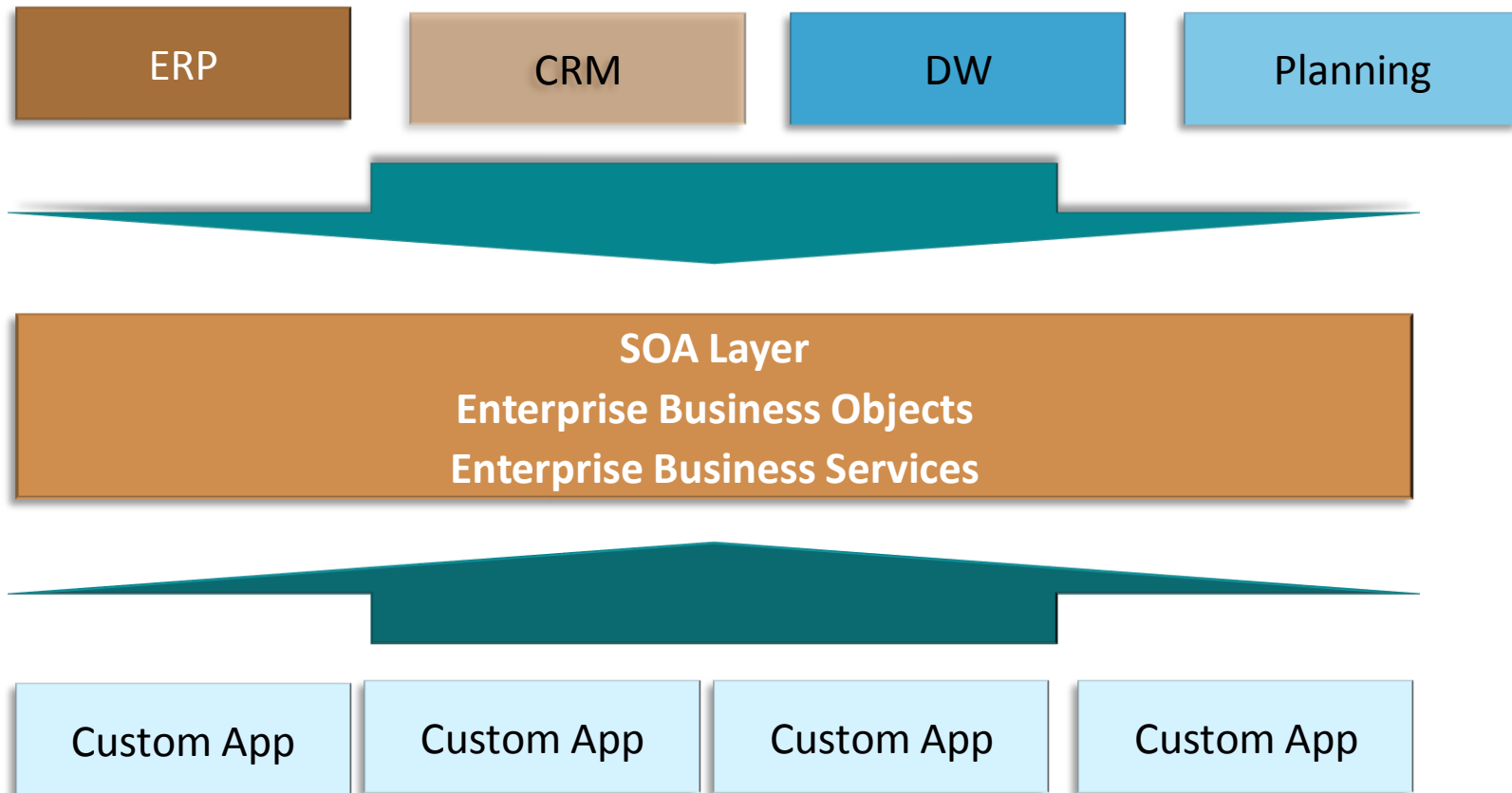
What Is SOA?

- SOA is essentially an Enterprise **Architectural design** style for your systems

    - SOA is an approach to integrate Enterprise Systems in the most optimal way

    - SOA Suite is a set of Products that will help you implement SOA design

    - SOA is NOT something that you Buy, rather Build

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Enterprise Integration – Traditional Model

Enterprise Integration – SOA Model

jade GLOBAL

| ERP | CRM | DW | Planning |

SOA Layer
Enterprise Business Objects
Enterprise Business Services

| Custom App | Custom App | Custom App | Custom App |

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SOA Suite is an integral Part of Oracle Enterprise Applications
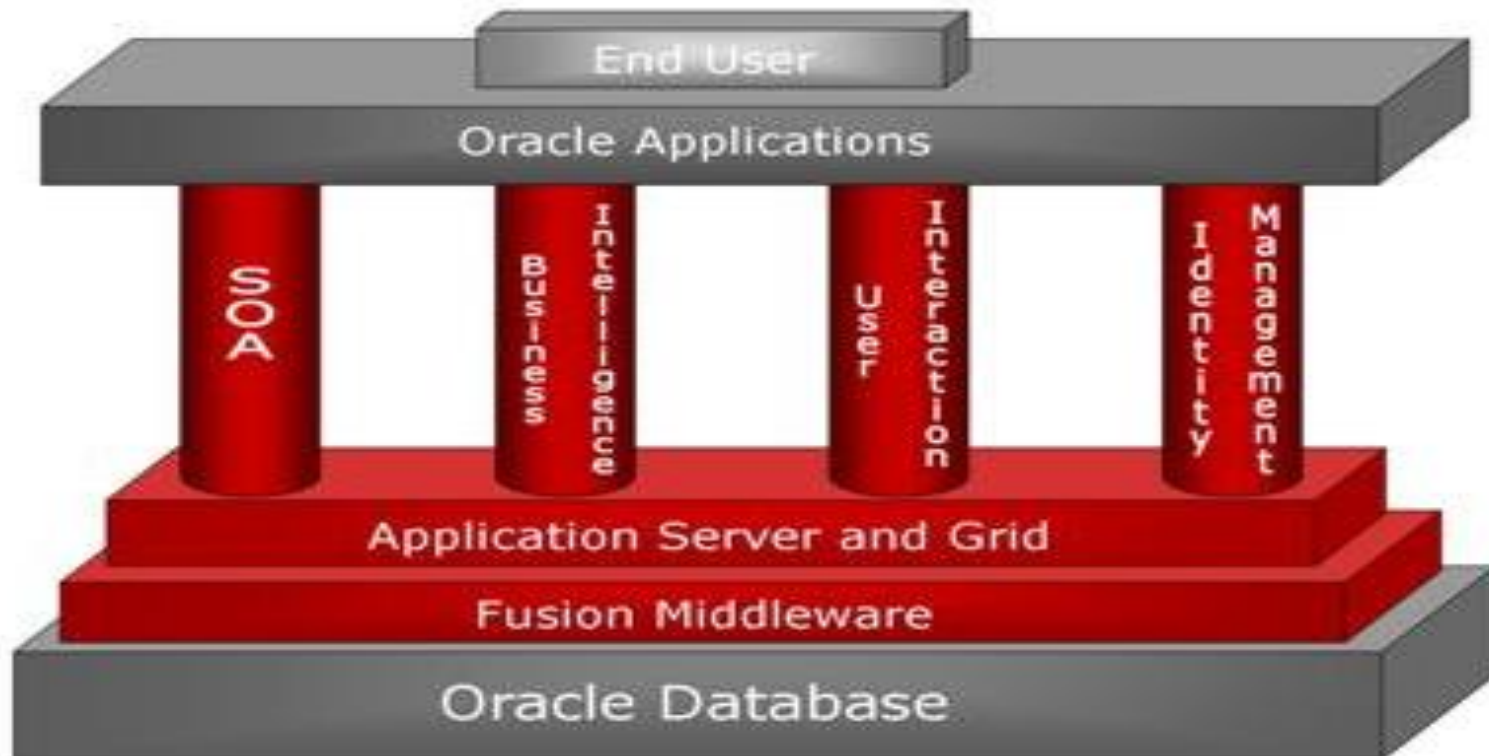
Major Challenges in Supply Chain

- Very resource intensive processes

- Inaccurate data due to manual entry

- Time lost in communicating with the suppliers

- Not scalable

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What is Needed?

- Real time data communication with suppliers

- Standards based architecture that is scalable

- Be able to bring onboard a new partner without any changes to existing processes

- Real time error handling and reporting

- Modular processes that are plug and play

- Automate resource intensive manual processes

What is the Solution?

- Build a solution using Oracle SOA Suite of Products

  - Industry leader in Enterprise Architecture Design Solutions

  - Tightly integrated with EBS

  - Provides standards based architecture

  - Highly scalable

  - Provides Plug and Play capability

  - Provides modular implementation capability

  - Compatible with all standard protocols

Design

Our Customer's Solution

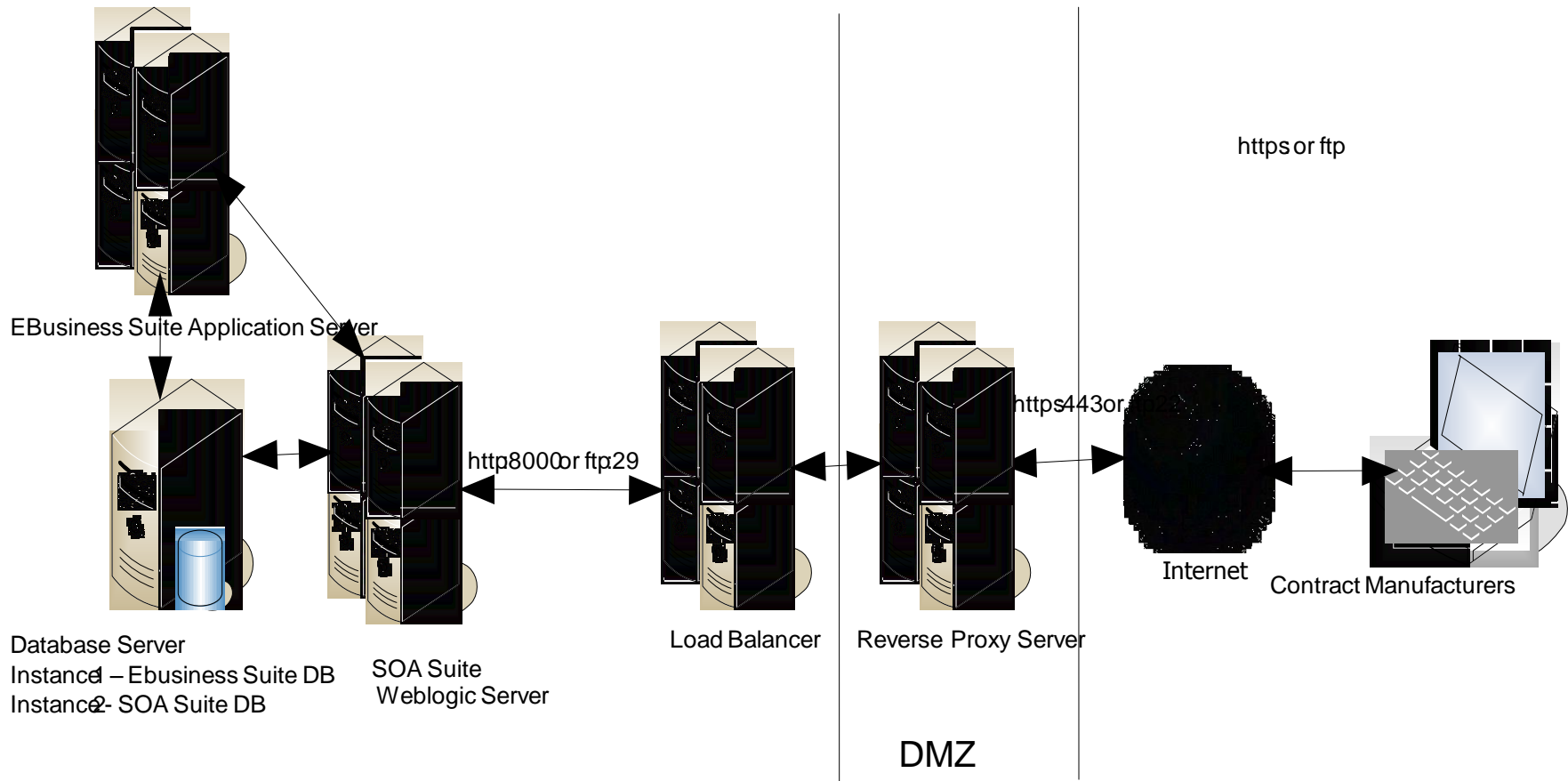## Supply Chain Integration

1. Outbound to Suppliers
   - Purchase Order from EBS
   - Change Purchase Order from EBS

2. Inbound from Suppliers
   - Functional Acknowledgement for Purchase Order/Change Purchase Order
   - Advanced Ship notice
   - Invoice

NOTE: All the above transactions sent and received using RosettaNet based xml documents

High Level System Design

EBusiness Suite Application Server

https or ftp

http 8000 or ftp 29

https 443 or ftp 22

Database Server
Instance1 – Ebusiness Suite DB
Instance2- SOA Suite DB

SOA Suite
Weblogic Server

Load Balancer

Reverse Proxy Server
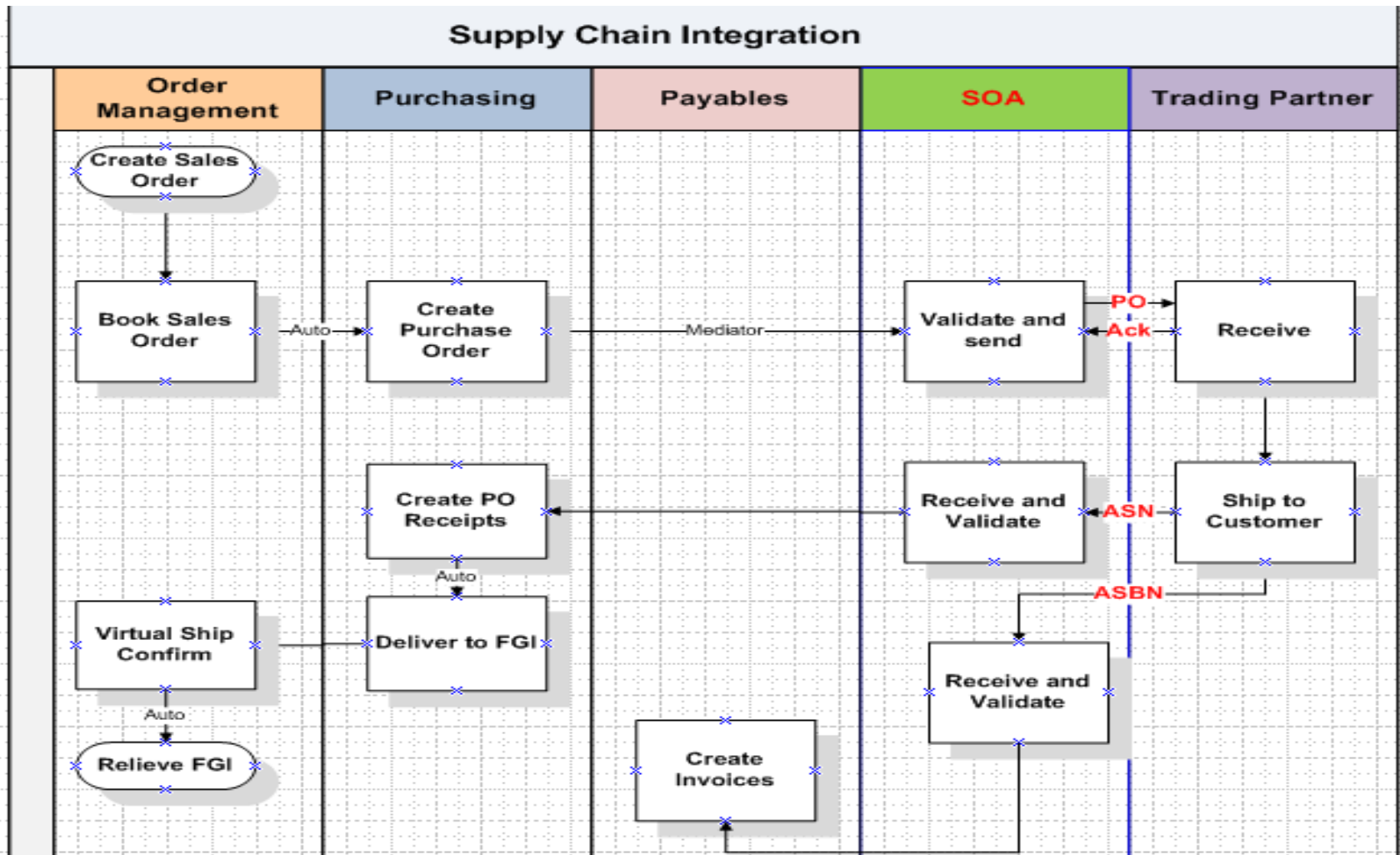
Internet

Contract Manufacturers

DMZ

Technology Components Used

- ## Oracle EBS 12.1.2
  - Standard Oracle XML Gateway

- ## SOA Suite 11g
  - Mediator
    - Route and transform to canonical
  - BPEL
    - Orchestrate the process
  - B2B
    - Partner Connectivity
  - Jdeveloper
    - Build Services

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Application Solution Design

Supply Chain Integration

Order Management	Purchasing	Payables	SOA	Trading Partner
Create Sales Order				
Book Sales Order	—Auto→ Create Purchase Order	—Mediator—	Validate and send	PO→ ←Ack Receive
	Create PO Receipts		Receive and Validate	←ASN Ship to Customer
Virtual Ship Confirm	Auto Deliver to FGI		Receive and Validate	ASBN
Relieve FGI		Create Invoices		

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Timeline and Benefits

Went live in 21 Weeks

- Eliminated all the manual processes of:
  - Paper PO's printed and faxed or emailed
  - Entering the Supplier receipts
  - Entering the customer shipments
  - Entering the invoices from suppliers

- Real-time Integration: transactions sent in seconds rather than hours/days

- Go live in phases based on suppliers readiness

- Repeatable architecture in place (can be used over & over over for other transactions)

- No coding required to add more data elements to any transaction

- Real time online error handling and communication with suppliers

Lessons Learned

– Confirm the readiness of the trading partner before starting the project

– Make sure every data element from EBS and RosettaNet is discussed and approved by partners prior to start of development

Microsoft Office
el 97-2003 Worksh

– Give plenty of time to resolve connectivity issues

– Make sure the volume and the max size of the transactions are tested before go live

– Get Oracle Product management on your side before the start of the project

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SOA Demo

- Login to EBS
  - Show the XML Gateway setups

- Create a PO

- Show the XML in transaction monitor

- Show the Transaction from EBS to B2B

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- Right Size
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Q&A

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HUMANCONCEPTS
Workforce Modeling and Intelligence

Appendix

Major Challenges in Supply Chain

- Purchase orders sent manually to suppliers either thru email, fax or phone

- Suppliers have no visibility to customer sales orders schedule dates or addresses

- No one on one connection to customer sales orders and supplier purchase orders

- Lack of integration between supplier receipts and customer shipments

- Changes made by suppliers not integrated to EBS purchase orders

- Supplier collaboration is very manual process

- Entering receipts, shipments and invoices is a resource intensive process

- Not scalable