

Integrating Your ERP with eVA



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Mapping Strategies in Uncertain Times



Agenda

- Integration Project Initiation
 - Integration – What is it?
 - ERP Delivered Functionality
 - Decision Factors for Integrating with eVA
- Integration Implementation Objectives
 - Approach
 - Integration Architecture
 - Design Considerations





Agenda

- Integration Implementation Project Configuration
 - Development
 - Testing
 - Training
 - Security
- Questions





Integration – What is it?

- A way to interface data from one system to another
- Seamless sharing of information
- Uses web technologies to move data in messages (XML, SOAP, WSDL)
- Web technologies consist of industry standards which can be leveraged in multiple applications
- Uses Web server gateways and integration broker to send and receive data in the form of application messages
- Can occur as real-time, near real-time or in batch



Decision Factors for Integrating

- eVA is the procurement system of record – Agencies and Institutions are required to use eVA for procurement transactions
- Eliminates duplicate manual keying into 2 systems (eVA and ERP)
- eVA will allow for Requisition Integration and Order Integration
- Agencies needs – eVA workflow, System checks



Integration Considerations

- To provide a real-time integration between eVA and ERP
 - Receive eVA vendor, requisitions, and purchase order incoming messages
 - Send reply message to eVA acknowledging receipt of messages
 - Send Approve/Deny message to eVA after message is processed by the ERP system

- Use ERP functionality to perform
 - Validations before a requisition becomes a PO, Account codes, Budget checking, Users, SPCC



Integration Project -- Approach

- Contract with a Vendor to provide integration, if technical expertise is not available in house

- Technical Project team
 - ITS staff
 - Accounting/Business Office Staff
 - Integration Contractor
 - Partnership with DGS functional and technical staff

- ❖ **Develop customizations and perform unit testing and performance testing**



Integration Project -- Approach

- Functional Group
 - Agency Personnel
 - Accounting/Business Office Personnel
 - Training Coordinator
 - Partnership with DGS/ISS Technical Team
 - Partnership with DGS/DPS Account Executives on eVA Workflow setup
 - Integration Contractor

- ❖ **Input on integration design and perform system and acceptance testing**



Integration Considerations

- existing data flow within eVA
- Recommend placement of requisition integration points in eVA workflow
- Create flowcharts to illustrate data flow between eVA
- Amend eVA approval workflow



Integration Considerations

- Account field data exists in eVA and in ERP – must be maintained in both
- Vendor data
- Vendor matching to eliminate duplicates – EIN/TIN, Location DUNS or other
- Flow of the data between the 2 systems
- Placement of integration signer rule in eVA (requisition header and line signer rule)
- Numbering of Req & PO IDs in ERP



Integration Considerations

- Pcards (Have a choice to integrate or not integrate)
- Develop helpful integration error messages to eVA users
- Identify security needs
- Agency shipping address
- United Nations UOM



Integration Configuration

- Web Server
- Integration Broker Gateway & Setup
- Subscription and Publication Code (Web Services)
- Uses HTTPS Protocol (Port 443)
- Requires SSL Certificate (Third Party), enhancement currently in test, self-signed certificate using X.509 authentication



Requisition XML Messages

PR2983231 - SME, lab supplies, Fisher Scientific

Review the request details and then take the appropriate action. The actions you can take vary depending on the request type and status.

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Summary Approval Flow Orders Receipts History

Date	User	Action	Summary
Tue, 10 Feb, 2009	aribasystem	Approved	PR2983231 approved.
Tue, 10 Feb, 2009	aribasystem	Approved	Requisition PR2983231 successfully passed Requisition Integration.
Tue, 10 Feb, 2009	aribasystem	In Progress	Requisition Integration transaction PR2983231 is being sent to ERP.
Tue, 10 Feb, 2009	Davis, Kimely	Approved	PR2983231 approved.
Fri, 6 Feb, 2009	Dunford(Deactivated), Amanda	Submitted	PR2983231 submitted for approval. Comments .



Requisition XML Messages

- Deny reply message includes information to user to what is needed to resolve an error

PR3355613 - Confirming Order for United Rental Invoice # 82770269-001

Review the request details and then take the appropriate action. The actions you can take vary depending on the request type and status.

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Summary Approval Flow Orders Receipts History

Date	User	Action	Summary
Tue, 15 Sep, 2009	Adams, Heather	Approved	PR3355613 approved.
Tue, 15 Sep, 2009	Lewter, Richard	Submitted	PR3355613 submitted for approval.
Tue, 15 Sep, 2009	Lewter, Richard	Withdrawn	PR3355613 withdrawn.
Tue, 15 Sep, 2009	aribasystem	Denied	PR3355613 denied.
Tue, 15 Sep, 2009	aribasystem	Denied	Requisition PR3355613 failed Requisition Integration.
Tue, 15 Sep, 2009	aribasystem		
Tue, 15 Sep, 2009	Adams, Heather		
Tue, 15 Sep, 2009	Lewter, Richard		

Review Details for Action

These are the details for the field you selected.

Date: Tue, 15 Sep, 2009

User: [aribasystem](#)

Details: Correct ChartFields Combination on Line Number: 2 Schedule Number: 1 Distribution Line Number: 1 . (10208,66) The combination of chart values is invalid, contact Accounting/Business Manager for assistance TID=196712

Done



Purchase Order XML Messages

PR3288281 - DCC Catering for JTCC Chester Fall Picnic for Wanda Johnson

Status: Ordered

Review the request details and then take the appropriate action. The actions you can take vary depending on the request type and status.

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Date	User	Action	Summary
Tue, 1 Sep, 2009	aribasystem	Approved	PO Integration transaction for Order PCO656243 successfully processed by ERP.
Tue, 1 Sep, 2009	aribasystem	Sent	PO Integration transaction for Order PCO656243 sent to ERP.
Tue, 1 Sep, 2009	aribasystem	Ordered	Order PCO656243 was successfully sent via Ariba Supplier Network to BROCK'S BBQ INC. : BROCK'S BBQ RESTAURANT AND CATERING.
Tue, 1 Sep, 2009	Colbert, Doris	Approved	PR3288281 approved.
Tue, 1 Sep, 2009	aribasystem	Approved	PR3288281 approved.
Tue, 1 Sep, 2009	aribasystem	Approved	Requisition PR3288281 successfully passed Requisition Integration.
Tue, 1 Sep, 2009	aribasystem	In Progress	Requisition Integration transaction PR3288281 is being sent to ERP.
Tue, 1 Sep, 2009	Colbert, Doris	Approved	PR3288281 approved.
Tue, 1 Sep, 2009	aribasystem	Cancelled	PR3288281 Requisition Integration cancel transaction has been sent to ERP.
Wed, 5 Aug, 2009	Taylor, Fred	Approved	PR3288281 approved.

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Purchase Order XML Messages

- Deny reply message includes information to user to what is needed to resolve an error

PR3174635-V2 - Workforce Development Study - BRAC

Status: Ordered

Review the request details and then take the appropriate action. The actions you can take vary depending on the request type and status.

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Summary Approval Flow Orders Receipts History

Date	User	Action	Summary
Wed, 16 Sep, 2009, 12:58 PM	Davis, Ron	Undo	Changes undone.
Thu, 3 Sep, 2009	aribasystem	Composing	PR3174635-V4 is in composing stage due to ERP push errors.
Thu, 3 Sep, 2009	aribasystem	Denied	PO Integration transaction for Order denied by ERP.
Thu, 3 Sep, 2009	aribasystem	Sent	PO Integration transaction for Order sent to ERP.
Thu, 3 Sep, 2009	Mellon, Ed	Approved	PR3174635-V4 approved.
Thu, 3 Sep, 2009	aribasystem	Approved	Requisition successfully passed Requisition Integration.
Thu, 3 Sep, 2009	aribasystem	Approved	PR3174635-V4 approved.
Thu, 3 Sep, 2009	aribasystem	In Progress	Requisition Integration
Thu, 3 Sep, 2009	Davis, Ron	Changed	Changes made to a d
Tue, 1 Sep, 2009	aribasystem	Composing	PR3174635-V3 is in cr
Tue, 1 Sep, 2009	aribasystem	Denied	PO Integration transa
Tue, 1 Sep, 2009	aribasystem	Sent	PO Integration transa
Tue, 1 Sep, 2009	Mellon, Ed	Approved	PR3174635-V3 approv
Tue, 1 Sep, 2009	aribasystem	Approved	PR3174635-V3 approv
Tue, 1 Sep, 2009	aribasystem	Approved	Requisition successful

Review Details for Action

These are the details for the field you selected.

Date: Thu, 3 Sep, 2009

User: [aribasystem](#)

Details: The PO is not dispatched and cannot be changed (27000,41) Contact your College eVA Administrator for assistance TID=188191

Done

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Integration Testing - Users

- Granted project team security to eVA's test system
- Test plan created by integration partner and provided to DGS for review
- Agency performs end to end testing



Integration Go Live

- Procurement and/or Fiscal management sends notification to DGS IT staff to implement integration in production
- DPS Account Executive with integration partner configures eVA to go live
- DGS IT staff configures BizTalk message broker for integration partner



Security and User Setup

- Data
 - SSL, HTTPS, loaded DGS' security certificate for authentication of encrypted data
- Users
 - Set up Vendor, PO and requisition user preferences
 - Buyer and Requester Setup in PeopleSoft to the integration account to allow the processing of vendor, requisition, and PO messages
- IT staff
 - Security granted to integration broker and custom monitoring tools and utilities





Tips

- Look at amounts when taking data from eVA to avoid rounding issues
- Develop user friendly messages so that problem resolution is clearer
- Review setup values and make sure that they are the same in both systems
- Review edits in both systems as they may cause errors when they differ
- Examine the integration process to make sure that messages and responses meet system requirements



Questions

