AIA EBO Migration Work Group Update

OAGi Annual Plenary Nov 17, 2016
Agenda

- Scope Review
- Working Group Members
- Accomplishments
- Next Steps
Working Group Members

- Cathy Highley, ADM
- Marcel Faijdherbe, ADM
- Jeff Rice, Boeing
- Kevin Himka, Boeing
- Frank Heinrick, iBaseT
- Jim Wilson, Keeltech
- Scott Nieman, Land O'Lakes
- David Connelly, OAGi
- Garret Minakawa, Oracle
- Mike Rowell, Oracle
- Boonserm Kulvatunyou, NIST
- Frank Riddick, NIST
- Evan Wallace, NIST
Review of Scope

• Provide an intake, review and migration process for Oracle submission of Application Integration Architecture (AIA) ‘core’ Enterprise Business Object EBO XSDs.
• Identify capabilities that would benefit OAGIS
• Prioritize work effort based on actual industry use
• Provide generalized mappings from AIA to OAGIS for migration; review of submitted subsets of actual used EBO XML nodes
• Selectively convert to 10.x
• Identify overlaps with existing OAGIS capabilities
What is NOT in Scope

- Detail mapping specifications between EBO and nouns
- Oracle's domain specific EBO, which are not part of the submission
- Oracle EBMs; the work effort is noun centric
- Oracle EBM-based WSDLs
- Oracle PIP EBOs may be reviewed but not supported
Deferred Scope Item

• Import into Semantic Refinement staging tables for conversion
• UI for comparing and associating types
Key Deliverables Summary

- Comparative Analysis of in-use EBOs to existing nouns
- Detailed actual XPATH usage documentation
- Updated nouns
- New nouns
- Import into Semantic Refinement DB
- Screens (UI) to compare / association content
List of Submitted EBOs

- AccountBalanceAdjustment
- AccountGLElementValueSet
- AccountingEntry
- AccountingPeriod
- AdvanceShipmentNotice
- AssignmentGrade
- AssignmentGradeLadder
- AssignmentGradeRate
- BankAccount
- BatchProductionOrder
- BillOfLading
- BillOfMaterials
- BillOfMaterialsConfiguration
- BlanketPurchaseAgreement
- BusinessCalendar
- BusinessUnit
- Calendar
- ChartOfAccounts
- Check
- Classification
- ClassificationScheme
- CreditMemo
- CurrencyExchange
- CustomerInteraction
- CustomerParty
- DebitMemo
- DemandForecast
- Department
- DisbursedPayment
- EngineeringChangeOrder
- FreightTerm
- FulfillmentOrder
- FundTransfer
- FundTransferSchedule
- GLElementValueSet
- InstalledProduct
- InventoryReservation
- InventoryTransaction
- Invoice
- Item
- ItemBalance
- ItemComposition
- ItemCost
- ItemFormula
- ItemLot
- ItemLotBalance
- ItemStructure
- Job
- Location
- ManufacturingRouting
- ManufactureItemComposition
- MarketingOffer
- PayableInvoice
- PaymentTerm
- Person
- PickList
- Position
- PriceList
- ProductionPerformance
- ProductionRecipe
- Project
- ProjectExpenditureItem
- ProjectFinancialPlan
- ProjectResourceRateSchedule
- ProjectResourceSet
- Promotion
- ProvisioningOrder
- PurchaseOrder
- Quote
- ReceiptAdvice
- ReceivedPayment
- RequestForQuote
- Requisition
- ResourceAvailabilityCalendar
- ResourceCalendarEntry
- SalesObjective
- SalesOpportunity
- SalesOrder
- SalesPlan
- SalesQuote
- ServiceRequest
- Shipment
- ShipmentAdvice
- ShipmentPlan
- ShipmentReceipt
- ShipmentRequest
- ShipmentUnit
- Specification
- SpecificationGroup
- SpecificationValueSet
- SupplierParty
- TalentProfile
- TalentProfileContentGroupType
- TalentProfileContentType
- TalentProfileContentItem
- TalentProfileContentType
- TalentProfileInstanceQualifierSet
- TalentProfileRatingModel
- TalentProfileType
- Task
- TimeSheet
- TransportationSalesOrder
- TransportationStop
- Worker
- WorkOrder
Assumptions, Dependencies and Issues

• Assumptions
  – Sufficient staffing
  – Access to Semantic Refinement DB

• Dependencies
  – Ability to search Components.xsd and Fields.xsd
  – GEFEG import

• Issues to date
  – Resources/ Timing; end-of-year is busy for most; close of 2016 projects, ramp-up of 2017 projects
  – Difficult to find information without OAGIS repository
  – Boeing access to Google Drive; something else??
Accomplishments to Date

• Receipt and Sharing of AIA Content (thank you Oracle!)
• Import into GEFEG (thank you Boeing!)
• Export sharing of GEFEG EBO.zef file for WG member work
• Identification of PartyProfile content (Boeing)
• Creation of mapping spreadsheet in Google for complexTypes
• Flattening and Sharing of Shipment EBOs in xlsx format showing actual use (Land O’Lakes)
• Sharing of Shipment scenario (Land O’Lakes); system interactions
Reality Check

• Bottom-up meets top-down is the best approach
• Mapping low level elements to OAGIS equivalents will solve a large baseline of AIA element conversion
• Top down revealing commonality in business processes
  – Shipment Request and Carrier allocation
  – Contract References at order lines
• It is difficult to find equivalents without at a Lexicon approach for synonyms that may exist
Top-Down: High-Level Shipment Life-Cycle
Top-Down: High-Level Shipment Life-Cycle
...meets bottom-up

Data Mapping Spreadsheet

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element/Attribute</td>
<td>AIA EBO Component Type</td>
<td>OAGIS 10.2.1 Component Type</td>
<td>Recommended Mapping</td>
<td>Work Activity to Incorporate into OAGIS</td>
<td>Usage/Need</td>
<td>DateCompleted</td>
</tr>
<tr>
<td>actionCode</td>
<td>@actionCode</td>
<td>@actionCode</td>
<td>none</td>
<td>lose the RevisionID</td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Identification</td>
<td>IdentificationType</td>
<td>IdentificationType</td>
<td></td>
<td>ContextID maps into IDSet/ID with @IDtype</td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>NameType</td>
<td>OpenNameType</td>
<td>none</td>
<td>OAGIS adds @sequenceNumber, add @localeCode</td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Status</td>
<td>StatusType</td>
<td>StatusType</td>
<td>none</td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>CodeType</td>
<td>CodeType</td>
<td></td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>SubCode</td>
<td>SubCodeType</td>
<td>NA</td>
<td>(add to CodeType)</td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Note</td>
<td>NoteType</td>
<td>NA</td>
<td>add as Component in OAGIS, leveraging its structure, not Description</td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>ContractIdentification</td>
<td>ContractIdentificationType</td>
<td>NA</td>
<td>Add ContractReferenceType</td>
<td></td>
<td>Boeing</td>
<td></td>
</tr>
<tr>
<td>Custom</td>
<td>Custom</td>
<td>ExtensionType</td>
<td></td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>CurrencyCode</td>
<td>CurrencyCodeType</td>
<td>CurrencyCodeType</td>
<td></td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>ClassificationCode</td>
<td>ClassificationCodeType</td>
<td>ClassificationType</td>
<td></td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>BillingProfileIdentification</td>
<td>BillingProfileIdentificationType</td>
<td>PaymentType</td>
<td>PartyProfile: PaymentID</td>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>ShippingProfileidentification</td>
<td>ShippingProfileIdentificationType</td>
<td>Net New</td>
<td>PartyProfile: New type</td>
<td></td>
<td>Common</td>
<td></td>
</tr>
</tbody>
</table>
## Flattened Shipment EBOs

<table>
<thead>
<tr>
<th>Integration Process Name</th>
<th>Composites</th>
<th>AIA EBO</th>
<th>Flattened EBM</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestShipment</td>
<td>RequestShipmentJDE90PurchaseOrderABCS RequestShipmentJDE90SalesOrderABCS RequestShipmentEBS RequestShipmentOTM620ReleaseProvABCS</td>
<td>ShipmentRequest</td>
<td>CreateShipmentRequestEBM.csv</td>
</tr>
<tr>
<td>RequestShipmentResponse</td>
<td>UpdateOrderStatusOTM620ReqABCS RequestShipmentEBS UpdateOrderStatusJDE90ReadyToPlanProvABCS</td>
<td>ShipmentRequest</td>
<td>CreateShipmentRequestResponseEBM.csv</td>
</tr>
<tr>
<td>CarrierTender</td>
<td>TransformOTM62TenderOfferReqABCS TransformOTM55GlogXMLReqABCS</td>
<td>NA</td>
<td>pass-thru to E2open</td>
</tr>
<tr>
<td>UpdateOrderCarrierAccept</td>
<td>UpdateJDEOrderWithOTMPlannedShipment</td>
<td>ShipmentPlan</td>
<td>SyncShipmentPlanListEBM.csv</td>
</tr>
<tr>
<td>UpdateShipmentStatus</td>
<td>UpdateStopOTM62ShipmentStatusReqABCS TransportationStopEBS UpdateStopJDE90ShipmentTrackingProvABCS</td>
<td>TransportationStop</td>
<td>UpdateTransportationStopListEBM.csv</td>
</tr>
<tr>
<td>ConfirmActualShipment</td>
<td>UpdateShipmentJDE90ReceiptReqABCS UpdateShipmentJDE90ShipNoticeReqABCS ShipmentEBS UpdateShipmentOTM620ReleaseProvABCS</td>
<td>Shipment (Common)</td>
<td>SyncShipmentEBM.csv</td>
</tr>
<tr>
<td>UpdateOrderWithPlannedCosts</td>
<td>ProcessOTM620AllocationBaseReqABCS ShipmentEBS</td>
<td>Shipment (Common)</td>
<td>UpdateShipmentEBM.csv</td>
</tr>
<tr>
<td>UpdateOrderWithCarrierVoucher</td>
<td>ProcessOTM620AllocationBaseVoucherReqABCS InvoiceEBS</td>
<td>Invoice</td>
<td>CreateInvoiceEBM.csv</td>
</tr>
</tbody>
</table>

researching...
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V |
| 47 | Environment | string | 1 | 1 | /CreateShipmentRequestEBM/EBMHeader/Request/Environment |
| 48 | DataArea | null | 1 | /CreateShipmentRequestEBM/DataArea |
| 49 | Create | null | /CreateShipmentRequestEBM/DataArea/Create |
| 51 | CreateShipmentRequest | null | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest |
| 52 | BusinessComponentID | string | 1 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/BusinessComponentID |
| 54 | ContextID | null | 0 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/ContextID |
| 55 | ApplicationObjectKey | null | 1 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/ApplicationObjectKey |
| 56 | ID | null | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/ID |
| 57 | AlternateObjectKey | null | 0 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/AlternateObjectKey |
| 59 | ID | integer | 1 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/ID |
| 60 | ContextID | null | 0 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/ContextID |
| 61 | Revision | null | 1 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/Revision |
| 62 | EffectiveDate | string | 1 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/Revision/EffectiveDate |
| 64 | Number | integer | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/Revision/Number |
| 65 | Description | string | 0 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/Revision/Description |
| 66 | Reason | string | 0 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Identification/Revision/Reason |
| 67 | Status | null | 1 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Status |
| 68 | Code | string | 1 | /CreateShipmentRequestEBM/DataArea/CreateShipmentRequest/Status/Code |
Select Used Elements in GEFEG

Plan to ignore EBMHeader
Next Steps

• Boeing PartyProfile in 10.3
• Land O’Lakes will refresh spreadsheets
  – GEFEG will generate actual AIA types
  – Vague Identifiers may need to research original mapping specifications from project
• ADM Contract?
AIA Migration Work Group Signature Page

• By signing this Project Definition you are agreeing to make a contribution to this Working Group
• The scope of the contribution is constrained to the scope definition in this Project Definition.
• The complete definition of a contribution and the terms under which the contribution are made is described in the OAGi Intellectual Property Policy, which is available on our web site at www.oagi.org.
• This page can be scanned and emailed to dmconnelly@oagi.org or faxed to OAGi staff at +1 (770) 234-6036

________________________________________
Authorized Signature

________________________________________
Name Printed

________________________________________
Organization Name

________________________________________
Date