New OAG Nouns and Elements built from Oracle EBO’s

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About Boeing

What We Do Today

- **Commercial Airplanes**
  - Boeing 7-series family of airplanes leads the industry.
  - Commercial Aviation Services supports carriers worldwide.

- **Defense, Space & Security**
  - World’s largest manufacturer of military aircraft.
  - Global Services & Support provides training, maintenance, and other services to government customers worldwide.
  - World’s largest provider of commercial and military satellites and major service provider to NASA.
  - Large-scale systems integration and support; develop networking technology and solutions.

- **Boeing Capital Corporation**
  - Financing solutions focused on customer requirements.

Connect and protect people globally
Global Boeing

- Products and services support to customers in more than 150 countries
  - Revenue in 2015: $96 billion
  - 70 percent of commercial airplane revenue historically from customers outside the United States
- Manufacturing, service and technology partnerships with companies around the world
  - Contracts with more than 20,000 suppliers and partners globally
- Research, design and technology-development centers and programs in multiple countries
- Approximately 160,000 Boeing employees across the United States and in more than 65 countries

Partnering worldwide for mutual growth and prosperity
Agenda

- The Story so Far
- Build, Build, Build
  - The WorkOrder Noun
  - The Party AccountActivity Element
  - The Contract Noun
- Examples
- Summary
Presentation’s Goal

Don’t Reinvent the Wheel!
If someone already did it, use it!
The story so far

- EBO Working Group, chaired by Scott Nieman of Land O’Lakes, continues to identify and define EBO conversion priority

- Low hanging fruit and quick hits identified and worked as the needs are identified

- “Necessity is the mother of Invention” right now, the needs of Land O’Lakes and Boeing are driving the conversion efforts
The WorkOrder Noun available in 10.3

- The WorkOrder Noun was built based on the Requisition Noun and the Oracle EBO, with Boeing and Land O’Lakes needs.
- There are no “New” additions to the OAGIS standard, except the Noun.
- The WorkOrder was “Assembled” using current “Standard” OAGIS Elements and Components.
- Being able to search the Symantec database was the key to getting this work done quickly.
The Party AccountActivity Element available in 10.4

- The Party AccountActivity Element was built based on the needs of Boeing and Land O’Lakes based on the EBO CustomerPartyAccount Element
- Party “Profile” information and Party Contract information are the two main drivers for this addition
- Will now be part of the Party Element
Lots of NEW OAGIS Content in the AccountActivity Element

- **PartyAccountActivity** - Represents the desired Activities for a Party providing information for the requesting person, organization, department, or group on the associated document or line.

- **PartyBillingProfile** - Identifies Unique Billing Profile information for the requesting person, organization, department, or group on the associated document or line.

- **PartyCreditProfile** - Identifies Unique Credit Profile information for the requesting person, organization, department, or group on the associated document or line.

- **PartyPaymentProfile** - Identifies Unique Payment Profile information for the requesting person, organization, department, or group on the associated document or line.

- **PartyPrivacyProfile** - Identifies Unique Privacy Profile information for the requesting person, organization, department, or group on the associated document or line.

- **PartySellingProfile** - Identifies Unique Selling Profile information for the requesting person, organization, department, or group on the associated document or line.

- **PartyShippingProfile** - Identifies Unique ShippingProfile information for the requesting person, organization, department, or group on the associated document or line.

- **PartySpecialNeedsProfile** - Identifies Unique Special Needs Profile information for the requesting person, organization, department, or group on the associated document or line.
Example: EBO to OAGIS Element Shipping Profile

<table>
<thead>
<tr>
<th>EBO</th>
<th>OAGIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>element ShippingProfileIdentification</td>
<td>element PartyShippingProfile</td>
</tr>
</tbody>
</table>

**EBO**

- **ShippingProfileIdentificationType**
  - **BusinessComponentID**
    - Unique key for the application
    - Generic representation of the object instance. Business Documents generated by AIA applications will have the BusinessComponentID populated.
    - The BusinessComponentID will be generated using the APIs provided by AIA Infrastructure.
  - **ID**
    - Business Friendly Identifier found in the participating application for this object instance. Business documents generated by AIA applications will have these populated wherever they are applicable. PO Number, Order Number are some of the examples.
  - **ContextID**
    - Optional element to identify additional qualifiers for the ID. Used in the case of multi-part key - for example if an Item is unique within a set, then the Item number would be the ID and the Set ID value would be a Context ID value.
  - **ApplicationObjectKey**
    - Participating Application specific internally generated unique identifier for this object instance. Business Documents generated by AIA applications will have to necessarily populate this information. This would represent the primary key of the object at the participating application.
  - **AlternateObjectKey**
    - One or more ways of additionally identifying the object’s instance. This can be optionally used to capture additional identifying details if necessary.
  - **Revision**
    - Means of identifying the revision details of an object or component.

**OAGIS**

- **ShippingProfileType**
  - **typeCode**
    - A code representing the type of the shipping profile.
  - **actionCode**
    - Code indicating the action to be taken.
  - **languageCode**
    - Language code indicating the language of the shipping profile.

- **PartyShippingProfile**
  - **ID**
    - Is the identifiers of the given instance of an entity within the scope of the integration. The schemeAgencyID attribute identifies the party that provided or knows this party by the given identifier.
  - **IDSet**
    - Is the identifiers of the given instance of an entity within the scope of the integration. The schemeAgencyID attribute identifies the party that provided or knows this party by the given identifier.
  - **Preference**
    - Specifies whether for a range of ordered values such as a range of serial numbers or list numbers. The presence of a Value identifier indicates the item is effective to all referenced items whose sequence identifier precedes the End Value. The absence of an ID identifier indicates the item is effective to all referenced items whose sequence identifier exceeds the End Value. Multiple ranges are possible; they may be contiguous or disjoint.
  - **ShipToLocation**
    - Identifies the location in which the goods are to be shipped.
  - **ShipmentExtension**
    - Allows the user of OAGIS to extend the specification in order to provide additional information that is not captured in OAGIS.
The Contract Noun coming soon in 10.4

- New OAGIS Noun based on the following sources: SalesOrder, Quote, Oracle EBO elements, OAGIS elements, AGXML, NIST definitions, cXML, OASIS, OpenGroup, Boeing needs, and Land O’Lakes needs.

- The majority of the Contract Noun was “Assembled” using current “Standard” OAGIS Elements and Components

- There are several “New” additions to the OAGIS standard, including the Noun

- Due to the complex nature of the Contract Business Object, a generalized approach was taken to allow for maximum flexibility

- Please note, Contract is a work in progress and intended to provide a starting point
Example: New Elements in the Contract Noun

New OAGIS Element
Element GovernmentReference

This Element was needed by Boeing, Land O’Lakes and AgXML
Example: Specific Contract type Elements added

New OAGIS Contract Elements

Element **CommodityContractInformation**
Element **CommodityContractDetail**

These two Elements were added to support the needs of Land O’Lakes and AgXML
The OAGIS Repository:

- Matching Business content and intent
- Current Search methods are manual and SLOW
- Too much tribal knowledge is involved in finding the semantically correct date element
- Jeff Rice from Boeing established an instance of the repository that he can search to help speed up the process, the results are in the previous slides
Shamelessly I admit that the majority of the work involved was for the direct benefit of Boeing and Land O’Lakes.

Keeping the work as “Neutral” as possible was the driving concern.

The low hanging fruit makes the whole process move faster.

Yes, it is “grunt” work to create the generalized mappings from AIA to OAGIS for migration, but in the end we will all benefit.

Serm, are you done yet?

Thank You