OAGIS 9.0 Introduction
August 9, 2005

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http://www.openapplications.org
Agenda

- Includes
- Tools Used
- Content Updates
  - Completed Content Projects
- Technical Updates
  - Updates
- Getting OAGIS 9.0
- What you get
- What is Core Components
- Core Component Implementation Details
OAGIS 9.0 Includes

- **Core Components**
  - ISO 15000-5 – CCTS 2.01
  - UN/CEFACT TBG17 – ACC and BIE/ABIE as defined to this point.
  - Includes updates to support UN/CEFACT ATG2 Naming and Design Rules.
    - Where we deviate it is to meet the functional needs of OAGIS and OAGi member requirements.

- **Completed Project**
  - Joint Project with STEP
  - Financial Payment Harmonization with OAGI, IFX, SWIFT and TWIST.
    - This is now an ISO standard ISO 20022 ([www.iso20022.org](http://www.iso20022.org))
  - Additional Nouns developed by OAGI
    - CRM
      - SalesLead
      - Opportunity
    - Logistics
      - ShipUnit
      - CarrierRoute
    - Online Orders
    - LocationServices
    - Sarbanes Oxley
      - RiskControlLibrary

- **Simplification of Verbs**
Tools used

- **IDEs**
  - Altovia’s XML Spy 2004 and 2005
  - GEFEG’s EDIFIX
  - Progress Software’s Stylus Studio
  - Tibco’s Turbo XML

- **Parsers**
  - Apache’s Xerces
  - Microsoft MSXML
Content Update

• Content Completed by the following Project Work Groups
  – Invoice Requirements
  – Shopping Cart
  – Logistics
  – Customer Resource Management
  – Financial Services
  – Engineering
  – Location Service
  – Sarbanes-Oxley
Review of Invoice

- Reviewed the OAGIS Invoice to ensure compliance with the new EU Invoice Requirements.
• Define the information needed for a ShoppingCart.
  – OnlineOrder – Provides the Line Items that an online shopper has selected. The Online Order may then be stored or posted at which point it becomes affectively an Order and goes through the same process as a PurchaseOrder.
  – OnlineSession – Provides session information to enable the communication with an Online Service.
Logistics Work Group

- ShipmentUnit – Identifies the traceable containers of a shipment this is traditionally a Carrier view of the shipping containers. The ShipmentUnit is also used on the Shipment.
- CarrierRoute – Describes the Route in which a Carrier is to take to make deliveries...
CRM Work Group

- **SalesLead** – Identifies a list of SalesLeads; these may be unqualified leads...or contacts that may be interested in products/services.
- **Opportunity** – Are qualified leads that are interested in a purchase.
Financial Services

- Originally an OAGi project that was expanded in order to Harmonize communication between Corporations and Banks to include the IST Members (OAGi, IFX, SWIFT, TWIST)
  - ISO20022 (more information at www.iso20022.org)
    - CreditTransferIST - CreditTransfer
    - DebitTransferIST - DebitTransfer
    - PaymentStatusIST - PaymentStatus
A joint project with STEP to express and EngineeringWorkDocument as defined by STEP in OAGIS

- EngineeringWorkDocument – Communicates the Engineering design characteristics for a given Item between CAD/CAM and ERP.
LocationService – Provides a mechanism to communicate with services provided today that confirm an address and/or provide a common form for the Address...
ICXML Work Group

- ICXML or Sarbanes-Oxley
  - RiskControlLibrary - Provides a way to communicate and track an organization conformance and risks as they relate to the Sarbanes-Oxley Law in the US.
The Numbers

- OAGIS 9.0 includes
  - 77 Nouns
  - 19 Verbs
    - 7 deprecated
    - 19 Verbs with 7 being deprecated
  - 434 BODs
Technical Updates

- XML Schema Prefix
- OAGIS Namespace
- Global Elements
- Naming Updates
- Standalone and Developer BODs
- Simplifying the Schema
- Verbs
- Core Components
- Core Components Implementation
XML Schema Namespace Prefix

- In the schema files change the XML Schema Namespace Prefix from “xs” to “xsd”
• Change namespace
  – From: http://www.openapplications.org/oagis
  – To: http://www.openapplications.org/oagis/9
Global Elements

- Using primarily global elements throughout OAGIS
  - Use global elements for BODs, Nouns, Verbs, Components, Compounds, and Fields.
  - For example
    - PurchaseOrder\Header in OAGIS 8.0 becomes
    - PurchaseOrder\PurchaseOrderHeader,
  - Local elements are used in places that OAGIS is not intended to be extended directly via substitutionGroups (while these most certainly may be extended indirectly in an Overlay.)
    - i.e. DataArea, CCTS aggregates that provide semantic attributes
Naming Updates in OAGIS 9.0

- OAGIS 9 incorporates today’s best practices for XML and continues to take full advantage of XML Schema
  - Use primarily global elements.
  - Incorporates ATG 2 Naming and Design Rules
    - ISO 11179
    - Long tag names
    - Use of UpperCamelCase for Elements and Types
    - Use of lowerCamelCase for attributes
    - Make use of XML Schemas Typing to define types for everything…inherit common pieces of the component and Noun definitions
      - Minimize the number of definitions and the amount of code needed to process the standard.
    - All Types are end with the word “Type”
OAGIS 9.0 – Developer and Standalone BODs

• Developer BODs make use of the multiple files to maintain elements and types as they are shared in order to provide a normalized view of common components.

• Standalone BODs all of the elements and types a BOD uses from the OAGIS namespace are all contained within a single file.
  • Where additional namespaces are used additional files must be used.
Simplifying the Schema

- No SubstitutionGroups in OAGIS 9.0
- SubstitutionGroups are used to enable Overlays
- Improved access to key data like IDs
- Provide more direction on what is need within given context (i.e. the semantics of the given Noun.)
Introduction to Verbs
Scope for 9.0 Update - Verbs

- Verb update
  - Moving from 19 verbs to 12 verbs to help clarify the use of the Verbs.
    - These Verbs are being deprecated no deletions.
      » This means that these verbs will continue to be in place for three releases forward, after which they will be discontinued.
Scenario from November 02
Thanks to Kurt

Customer: Purchasing

Supplier: Order Management

Supplier: Data Warehouse

ProcessPurchaseOrder
CancelPurchaseOrder
AcknowledgePurchaseOrder
RespondPurchaseOrder
CancelPurchaseOrder
AcknowledgePurchaseOrder
ChangePurchaseOrder
AcknowledgePurchaseOrder
CancelPurchaseOrder
AcknowledgePurchaseOrder
AcknowledgePurchaseOrder

SyncPurchaseOrder (Add)

SyncPurchaseOrder (Change)

Console User

Notes:
1. ConfirmBOD can occur as an intermediate response to each and every message.
2. The same scenario could be initiated with a Change or Cancel PurchaseOrder for an existing order that has already been acknowledged.

Discussion:
1. The AcknowledgePurchaseOrder in response to any of the CancelPurchaseOrder messages and the originating ProcessPurchaseOrder terminates the transaction. Currently I don’t use graphics to depict this.
OAGIS Verbs Deprecated in 9.0

From Training deck and Meeting Updates Since 0211

- Acknowledge
- Add (deprecated)
- Allocate (deprecated)
- Cancel
- Change
- Confirm
- Create (deprecated)
- Get
- GetList (deprecated)
- Issue (deprecated)
- List (deprecated)
- Load
- Post
- Process
- Receive (deprecated)
- Respond
- Show
- Sync
- Update
# Verbs 8.0 to 9.0

<table>
<thead>
<tr>
<th>OAGIS 8.0 Verbs</th>
<th>OAGIS 9.0 Verbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acknowledge</td>
<td>Acknowledge</td>
</tr>
<tr>
<td>Add</td>
<td>Process</td>
</tr>
<tr>
<td>Allocate</td>
<td>Process</td>
</tr>
<tr>
<td>Cancel</td>
<td>Cancel</td>
</tr>
<tr>
<td>Change</td>
<td>Change</td>
</tr>
<tr>
<td>Confirm</td>
<td>Confirm</td>
</tr>
<tr>
<td>Create</td>
<td>Process</td>
</tr>
<tr>
<td>Get</td>
<td>Get</td>
</tr>
<tr>
<td>GetList</td>
<td>Get</td>
</tr>
<tr>
<td>Issue</td>
<td>Process</td>
</tr>
<tr>
<td>List</td>
<td>Show</td>
</tr>
<tr>
<td>Load</td>
<td>Load – Synonym for Sync in Financial</td>
</tr>
<tr>
<td>Post</td>
<td>Post – Synonym for Process in Financial</td>
</tr>
<tr>
<td>Process</td>
<td>Process</td>
</tr>
<tr>
<td>Receive</td>
<td>Process</td>
</tr>
<tr>
<td>Respond</td>
<td>Respond</td>
</tr>
<tr>
<td>Show</td>
<td>Show</td>
</tr>
<tr>
<td>Sync</td>
<td>Sync</td>
</tr>
<tr>
<td>Update</td>
<td>Update</td>
</tr>
</tbody>
</table>
Assumptions

- There is no difference between processing done within a company and the processing done by a company’s supply chain.
  - Everything can be outsourced...
  - This is further supported from the early days of OAGi with the different groups focusing on internal versus external messages and the discovery that these were the same.

- Environments supported are Request-Reply (pull), Publish-Subscribe (push).
Verbs
- Process – Acknowledge
- Change – Respond
- Get – Show
- Update
- Cancel
- ConfirmBOD – Can occur in response to each BOD.
- Sync

BODs not shown that are in 9.0
- Load – synonym for Sync for Financial Docs
- Post – synonym for Process for Financial Docs

Request-Reply Verbs are in green. All of these verbs have an optional reply as noted above the Verbs List.

Publish Verbs are out side of the green box. This includes the orange Process. Any Verb can be used in a Publish transport.
## OAGIS Verb Pairings

<table>
<thead>
<tr>
<th>Request</th>
<th>Reply</th>
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<tbody>
<tr>
<td>Post - Synonym for Process in Financial</td>
<td>Acknowledge</td>
</tr>
<tr>
<td>Process</td>
<td>Acknowledge</td>
</tr>
<tr>
<td>Get</td>
<td>Show</td>
</tr>
<tr>
<td>Change</td>
<td>Respond</td>
</tr>
<tr>
<td>Update</td>
<td>Respond</td>
</tr>
<tr>
<td>Load – Synonym for Sync in Financial</td>
<td>ConfirmBOD</td>
</tr>
<tr>
<td>Cancel</td>
<td>ConfirmBOD</td>
</tr>
<tr>
<td>*</td>
<td>ConfirmBOD</td>
</tr>
<tr>
<td>Add</td>
<td></td>
</tr>
<tr>
<td>Allocate</td>
<td></td>
</tr>
<tr>
<td>Create</td>
<td></td>
</tr>
<tr>
<td>GetList</td>
<td>List</td>
</tr>
<tr>
<td>Issue</td>
<td></td>
</tr>
<tr>
<td>Receive</td>
<td></td>
</tr>
</tbody>
</table>
## IBM – 8.0 Verb use and response

<table>
<thead>
<tr>
<th>Message verb - Request Message</th>
<th>Message verb - Response</th>
<th>Example</th>
<th>Usage notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sync (with options selected for either Add, Change, Delete or Replace)</td>
<td>Confirm</td>
<td>Request: SyncCustomerAddress (Add) Response: ConfirmCustomerAddress</td>
<td>Used to replicate data between applications</td>
</tr>
<tr>
<td>Process</td>
<td>Acknowledgement</td>
<td>Request: ProcessPurchaseOrder Response: AcknowledgePurchaseOrder</td>
<td>Used to initiate a business operation, which usually results in the creation of a new instance of a business object.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Confirm</td>
<td>Request: CancelReservation Response: ConfirmReservation</td>
<td>Used to stop a business operation</td>
</tr>
<tr>
<td>Get</td>
<td>Show</td>
<td>Request: GetOrderStatus Response: ShowOrderStatus</td>
<td>Used to retrieve information from an application</td>
</tr>
<tr>
<td>Change</td>
<td>Confirm</td>
<td>Request: ChangePurchaseOrder Response: ConfirmPurchaseOrder</td>
<td>Used to change a business operation</td>
</tr>
</tbody>
</table>
Nouns
Noun Naming Convention

• Object + Object Attribute
• Action + Object
• Qualifier(s) + Object
## Nouns

<table>
<thead>
<tr>
<th>ActualLedger</th>
<th>CustomerPartyMaster</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllocateResource</td>
<td>DebitTransfer</td>
</tr>
<tr>
<td>BOD</td>
<td>DebitTransferIST</td>
</tr>
<tr>
<td>BOM</td>
<td>DispatchList</td>
</tr>
<tr>
<td>BudgetLedger</td>
<td>EmployeeWorkSchedule</td>
</tr>
<tr>
<td>CarrierRoute</td>
<td>EmployeeWorkTime</td>
</tr>
<tr>
<td>Catalog</td>
<td>EngineeringChangeOrder</td>
</tr>
<tr>
<td>ChartOfAccounts</td>
<td>EngineeringWorkDocument</td>
</tr>
<tr>
<td>ConfirmWIP</td>
<td>Field</td>
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<tr>
<td>CostingActivity</td>
<td>InspectDelivery</td>
</tr>
<tr>
<td>Credit</td>
<td>InventoryBalance</td>
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<tr>
<td>CreditStatus</td>
<td>InventoryConsumption</td>
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<tr>
<td>CreditTransfer</td>
<td>InventoryCount</td>
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<tr>
<td>CreditTransferIST</td>
<td>Invoice</td>
</tr>
<tr>
<td>CurrencyExchangeRate</td>
<td>InvoiceLedgerEntry</td>
</tr>
<tr>
<td>Nouns</td>
<td></td>
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<tr>
<td>--------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>IssueInventory</td>
<td>Payable</td>
</tr>
<tr>
<td>ItemMaster</td>
<td>PaymentStatus</td>
</tr>
<tr>
<td>JournalEntry</td>
<td>PaymentStatusIST</td>
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<td>Location</td>
<td>Personnel</td>
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<tr>
<td>LocationService</td>
<td>PickList</td>
</tr>
<tr>
<td>MaintenanceOrder</td>
<td>PlanningSchedule</td>
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<tr>
<td>MatchDocument</td>
<td>PriceList</td>
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<tr>
<td>MergeWIP</td>
<td>ProductAvailability</td>
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<tr>
<td>MoveInventory</td>
<td>ProductionOrder</td>
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<tr>
<td>MoveWIP</td>
<td>ProjectAccounting</td>
</tr>
<tr>
<td>OnlineOrder</td>
<td>ProjectMaster</td>
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<tr>
<td>OnlineSession</td>
<td>PurchaseOrder</td>
</tr>
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<td>Operation</td>
<td>Quote</td>
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<td>Opportunity</td>
<td>Receivable</td>
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<tr>
<td>PartyMaster</td>
<td>ReceiveDelivery</td>
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<tr>
<td>Nouns</td>
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<td>-----------------------</td>
<td></td>
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<tr>
<td>ReceiveItem</td>
<td></td>
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<tr>
<td>RecoverWIP</td>
<td></td>
</tr>
<tr>
<td>RequireProduct</td>
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<tr>
<td>Requisition</td>
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<tr>
<td>RFQ</td>
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<tr>
<td>RiskControlLibrary</td>
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</tr>
<tr>
<td>Routing</td>
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<tr>
<td>SalesLead</td>
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<tr>
<td>SalesOrder</td>
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<td>SequenceSchedule</td>
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<tr>
<td>Shipment</td>
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<tr>
<td>ShipmentSchedule</td>
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<tr>
<td>ShipmentUnit</td>
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<tr>
<td>SplitWIP</td>
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<tr>
<td>SupplierPartyMaster</td>
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</table>

<table>
<thead>
<tr>
<th>UOMGroup</th>
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<tbody>
<tr>
<td>WIPStatus</td>
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</table>

<table>
<thead>
<tr>
<th>Nouns</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIPStatus</td>
</tr>
</tbody>
</table>

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Core Components
The OAGIS BOD Stack

- Auto Industry
- IT Industry
- USAF
- Aerospace Industry

OAGIS Business Object Documents

OAGIS Components

UN/CEFACT CC

OAGIS Core Components
Core Components

- ISO 15000-5 – CCTS 2.01
- UN/CEFACT TBG17 – ACC and BIE/ABIE as defined to this point.
- Includes updates to support UN/CEFACT ATG2 Naming and Design Rules.
  - Where we deviate it is to meet the functional needs of OAGIS and OAGi member requirements.
Core Components?

- Core Components
  - Naming and Design Rules
    - ATG 2
  - Core Component Technical Specification
    - (CCTS 2.01)
    - ISO 15000-5
  - Harmonized Core Components
    - TBG 17
- Used By
- OAGIS

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Core Components Are

- Core Components
  - Core Component Types 2.01 (CCTS) - ISO 15000-5
  - Unqualified Data Types
    - Currency,
    - MIME Encoding,
    - UnitCode,
  - Qualified Data Type
    - Language
  - Aggregate Core Component (ACC),
  - Aggregate Business Information Entity (ABIE)
How Core Components are to be Implemented (ATG2)

- Each of the Core Component Specifications are implemented in their own namespace therefore in their own file.
- Must use Code list for:
  - Currency,
  - Language,
  - UnitCode,
  - MIME Encoding
## (ATG2) Core Component Implementation

<table>
<thead>
<tr>
<th>Core Component Types (CCTS) 2.01 / ISO 15000-5</th>
<th>CoreComponentTypes.xsd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unqualified Data Types</td>
<td>Unqualified DataTypes.xsd</td>
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<tr>
<td>Currency</td>
<td>CodeList_Currency_ISO_7_04.xsd</td>
</tr>
<tr>
<td>MIME Encoding</td>
<td>CodeList_MIMEContentTypeCode_IANA_7_04.xsd</td>
</tr>
<tr>
<td>Qualified Data Type</td>
<td>Qualified DataTypes.xsd</td>
</tr>
<tr>
<td>Language</td>
<td>CodeList_LanguageCode_ISO_7_04.xsd</td>
</tr>
<tr>
<td>Aggregate Core Components</td>
<td></td>
</tr>
<tr>
<td>Aggregate Business Information Entity</td>
<td>ReusableAggregateBusinessInformationEntity.xsd</td>
</tr>
</tbody>
</table>
OAGIS Component Libraries

- OAGIS
- UN/CEFACT
- IST/ISO
A Look Inside Core Components
## Abbreviations

<table>
<thead>
<tr>
<th>Name</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoreComponentTypes</td>
<td>CCT</td>
</tr>
<tr>
<td>Unqualified Data Types</td>
<td>UDT</td>
</tr>
<tr>
<td>Qualified Data Types</td>
<td>QDT</td>
</tr>
<tr>
<td>Aggregate Core Components</td>
<td>ACC</td>
</tr>
<tr>
<td>Aggregate Business Information Entity</td>
<td>ABIE</td>
</tr>
<tr>
<td>Reusable Aggregate Core Components</td>
<td>RACC</td>
</tr>
<tr>
<td>Reusable Aggregate Business Information Entity</td>
<td>R(U)ABIE</td>
</tr>
</tbody>
</table>
Core Component Type Implementation

- CoreComponentTypes are implemented by being further defined by:
  - UnqualifiedDataTypes
  - QualifiedDataTypes
• UN/CEFACT requires that the CodeList indicated earlier be used.
  – Each of these restricts the set of possible normalizedStrings to be the set of values defined for the given codelist.
  – What happens if an implementation or application does not use that codelist?
    • They can not use the standard...or a translation between the codelists must take place.
ACC and ABIE Implementation

- **ACCs**
  - Are further restricted by the ABIEs and not intended to be used directly
  - ACC’s must be provided in a file Reusable Aggregate Core Component.

- **ABIEs**
  - Provide how the given implementation uses the ACC.
  - Must be provided in a file named Reusable Aggregate Business Information Entity.
  - May be restrictions of the associated ACC
  - May provide qualifying names for the associated attributes
  - But must not extended the defined ACC.
A Look Inside OAGIS 9.0
Implementation of Core Components

Trying to Keep it Simple
OAGIS CodeList Implementation

- While OAGi has always recognized the need for Codelists,
  - There must be a way to communicate the Codelist of the vertical industry standard, company, integration and/or the application.
  - While OAGIS uses and recommends the defined Codelists from UN/CEFACT, we also allow additional values to be present.
    - This is accomplished by the OAGIS CodeList file which is in a different namespace from the rest of OAGIS.
The types defined in the UDT and QDT use the OAGIS CodeList Implementation.

As do the types in OAGIS.

This allows OAGIS or OAGIS Overlays to make use of other codelists.

- This is critical for any standard to be implemented.
CoreComponent Inclusion

As we have seen there are natural inclusions of the different CoreComponents parts into the implementation details as defined by Core Components.

- For Example the UN/CEFACT implementation defines:
  - CoreComponentTypes are implemented by being further defined/restricted by UnqualifiedDataType, QualifiedDataTypes
  - ACCs are defined/restricted by the ABIEs that use them.
- OAGIS Implementation of Core Components follows this inclusion model, while providing the details of the included files.
ACC and ABIE Implementation

• ACCs - Are further restricted/defined by the ABIEs and not intended to be used directly
  – Since derivation by restriction is not possible across namespaces in XML Schema there is no value in importing the RACC file into the RUABIE.
OAGIS Inclusions

- The OAGIS Fields file defines the field types and elements.
  - Imports the QDT, UDT and CodeList
  - Provides a wrapper type in the OAGIS namespace for these types.
- The OAGIS Components file defines the Common Components types and elements.
  - Provides an equivalent type within OAGIS for the RUABIE types.
    - These types can be identified by the type name XXXABIIETYPE.
Core Component Implementation
Namespaces Visible in OAGIS 9.0

1. OAGIS
2. OAGIS CodeList
3. QDT
4. UDT
5. Currency,
6. Language,
7. UnitCode,
8. MIME Encoding
Additional Namespaces

- IST Namespaces
  1. IST – CreditTransfer,
  2. IST - PaymentStatus
Core Component Implementation with IST

OAGIS Business Object Documents

OAGIS Components (Nouns, Verbs)

OAGIS Components Common, Operational, Financial

TBG17 – R(U)ABIEs

TBG17 – RACCs

UN/CEFact – QualifiedDataTypes 1.1

UN/CEFact – UnQualifiedDataTypes 1.1

UN/CEFact – CoreComponentType 2.01

OAGIS Fields

IST Schemas

OAGIS CodeLists Implementation

UN/CEFact - CodeLists
QUESTIONS & ANSWERS
Getting OAGIS 9.0
How to Begin:
Get OAGIS

- Get OAGIS (if you do not already have it) from the [www.openapplications.org](http://www.openapplications.org) site.
  1. Click “Free Downloads”
  2. Click on OAGIS 9.0 Schema Download link
  3. Fill in the Registration Form; click the Goto download button at the bottom of the form.
  4. Simply click on either the zip link or the self-extracting exe link for OAGIS 9.0. (This will retrieve a single file that contains all of OAGIS Schemas 12MB.)
  5. Once downloaded unzip the file maintaining the directory structure contained in the zip file. (This is important because the OAGIS files are relatively linked.)
How to Begin:
Get OAGIS (continued)

6. Click “Free Downloads” link in the navigation panel
7. Click on OAGIS 9.0 documentation Download link
8. Fill in the Registration Form; click the Goto download button at the bottom of the form.
9. Simply click on the link for OAGIS 9.0 Documentation. (This will retrieve a single file that contains all of the OAGIS Documentation (221MB).)
10. Once downloaded unzip the file maintaining the directory structure contained in the zip file. (This is important because the OAGIS files are relatively linked.)
What you get!
What you get:
Look Around OAGIS
What you get:
Look Around OAGIS
OAGIS Class Resource Libraries
OAGIS Common Class Libraries
OAGIS Core Component Class Libraries

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<table>
<thead>
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<td>CodeList_CurrencyCode_ISO_7_04.xsd</td>
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<td>CodeList_MIMEMediaTypeCode_IANA_7_04.xsd</td>
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<td>CodeList_UnitCode_UNECE_7_04.xsd</td>
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<tr>
<td>CoreComponentTypes.xsd</td>
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<td>Qualified DataTypes.xsd</td>
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<td>ReusableAggregateBusinessInformationEntity.xsd</td>
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<td>ReusableAggregateCoreComponent.xsd</td>
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<td>Unqualified DataTypes.xsd</td>
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```
OAGIS Financial Class Libraries

![Image: OAGIS Financial Class Libraries](image-url)
ISO 20022 Financial Class Libraries

`T:\oagis\9.0\Resources\Components\Financial\iso20022`

- `$pain.001.001.01.xsd`
- `$pain.002.001.01.xsd`
- `ISTFinal_July12.pdf`
OAGIS Operational Class Libraries
Let’s take a look!!
QUESTIONS & ANSWERS