



# Note to Translator

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## Acronym List

- API: Application Programming Interface
- BPMN: Business Process Modeling and Notation
- CCTS: Core Component Technical Specification
- JSON: JavaScript Object Notation (pronounced "jason")
- NDR: Naming and Design Rules
- NIST: National Institute of Standards and Technology (under the United States Department of Commerce)
- OAGi: Open Applications Group, Inc. (the organization)
- OAGIS: Open Application Group Integration Specification (the standards)
- REST: Representational State Transfer
- UN/CEFACT: United Nations Centre for Trade Facilitation and Electronic Business
- WG: Working Group



# Open Applications Group

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## OAGi Update

CEDI Forum • 24 May 2016  
Jim Wilson, OAGi Architect



# OAGi Membership Now

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- ADP
- AgGateway
- Automotive Industry Action Group (AIAG)
- Amber Road **NEW**
- Archer Daniels Midland
- Austen Consultancy
- Boeing
- Bright3 AB
- Cisco
- Command Alkon
- Data Communication Solutions
- DBI Poland
- E2open
- EDIFICE
- Emerson
- Etail Solutions
- GEFEG
- HR Open Standards
- iBASEt
- Infor
- ISA
- Japan Petrochemical Association
- Justransform **NEW**
- Kaba Workforce Solutions
- Land O'Lakes
- Liaison Technologies
- London Drugs
- Microsoft
- NIST
- OASIS
- Odette
- OpenText
- Oracle
- SAA Consultants
- Standards for Technology in Automotive Retail (STAR)
- Trisotech **NEW**
- MESA



# OAGi Staff and Contractors

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## Employees

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# 2016 OAGi Events YTD

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- Approval from Oracle for EBO contribution
- *How are you using OAGIS?* Survey launched
- Agreement with Trisotech for BPMN Cloud Service for OAGIS work
- Completed onboarding by Trisotech on BPMN Cloud Service
- 2016 Update of OAGi Development Methodology releases



# 2016 OAGi Events YTD

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- Completed Archer Daniels Midland training
- Completed E2open training
- Completed Boeing training
- Completed OAGIS and Canonical Model Overview for Infor Architects
- OAGi and NIST successfully host an Open Cloud Workshop for Smart Manufacturing
- OAGi Spring Plenary and Working Groups



# Chem eStandards 5.4

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- Implemented numerous additions and changes for the Japanese chemical industry to support transition from JPCA-BP EDI to Chem eStandards for supply chain operations involving trading houses.
- Changes are defined to address the following messages:
  - OrderCreate
  - OrderResponse
  - OrderChange
  - Invoice
  - InvoiceResponse
  - PaymentDetail
  - CustomerSpecificCatalogUpdate



# Chem eStandards 5.4

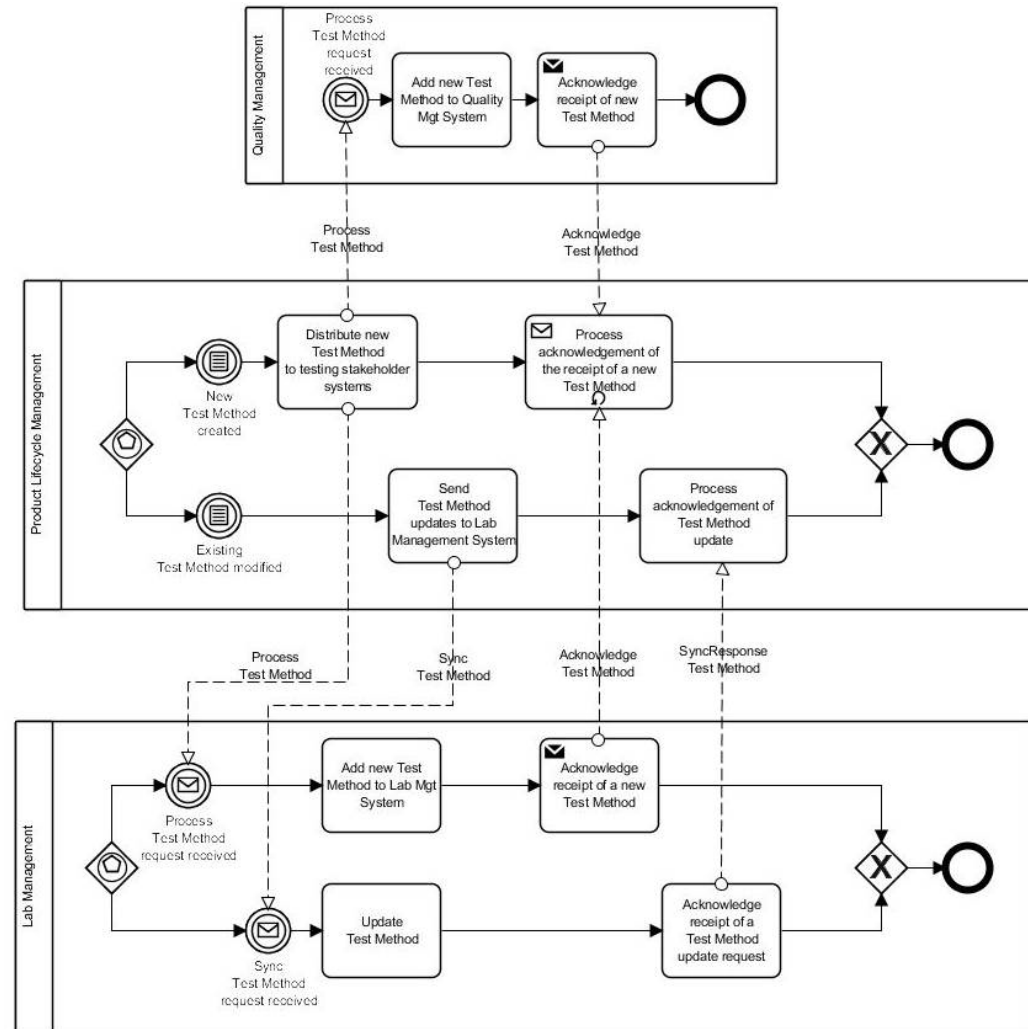
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- Implemented numerous additions and changes to support the North American agriculture industry, including:
  - Several code list additions
  - Added three new micronutrients to support fertilizer tonnage reporting
  - Added support for additional ingredient information required for product blends
  - Added support for additional product information in the PriceAndAvailabilityResponse message
- Addressed a few bugs (no impact on backwards compatibility; no impact on instance documents)



# Cloud BPMN Service

- Launched with Onboarding Video
- Quality Content WG using the tool
- OAGi has 20 licenses for members to use for their OAGi standards work
- OAGi plans to adopt into the OAGi Development Methodology once members learn BPMN and become comfortable





# JSON NDR and REST API Design Guide

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## OAGi JSON Schema Naming and Design Rules (NDR) and REST Usage Design Guide

**Authors:**

Michael Rowell, Oracle, OAGi  
David Connelly, OAGi

**Contributors:**

Scott Nieman, Land O'Lakes  
Steffen Fohn, ADP  
Frank Heinrich, iBASEt  
Kurt Kanaskie, Invited Expert



# JSON NDR and REST API Design Guide

- JSON NDR references UN/CEFACT CCTS and NDR
- Changed Camel Case to Lower for best practices
- Made allowances for no attributes in JSON
- OAGi endorses the OData URI convention for resource paths and query options, reflecting the goals of the Richardson Maturity Model
- The BOD architecture is NOT planned to be used at this time. The focus is on using Nouns and Components for the data definitions
- The Verbs used for OAGIS JSON Schema API's or messages uses the REST mechanism verbs in lieu of the OAGIS Verbs.



## OAGi JSON Schema Naming and Design Rules (NDR) and REST Usage Design Guide

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# OAGi Working Groups

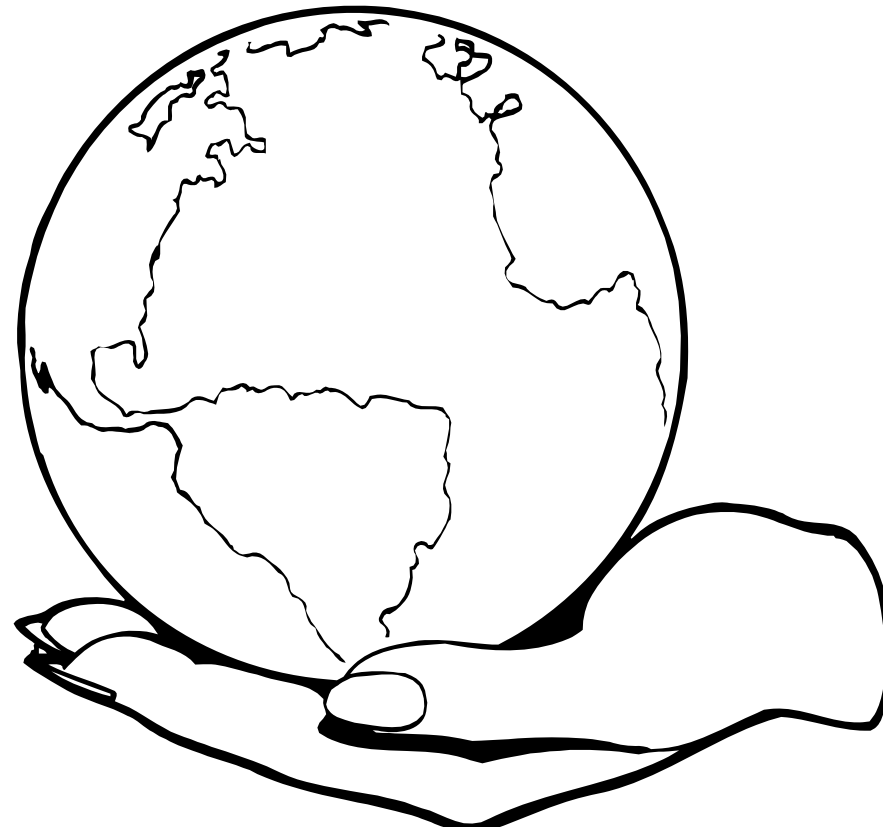
- Quality Content WG
- Semantic Refinement and Tooling WG
- Smart Manufacturing WG
- Mobile, Cloud, JSON WG
  - Working with the Semantic Team on JSON
- BPMN Expressions of OAGIS Scenarios
- Chem eStandards Maintenance WG
- Quality Assurance Working Group





# ISA S-95 Outreach Activities

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- ISA-95 has reached out to OAGi Quality Content WG
- Using old MoU we signed in 2005 and re-verified with ISA
- ISA-95 Chair is now part of the Quality Content WG

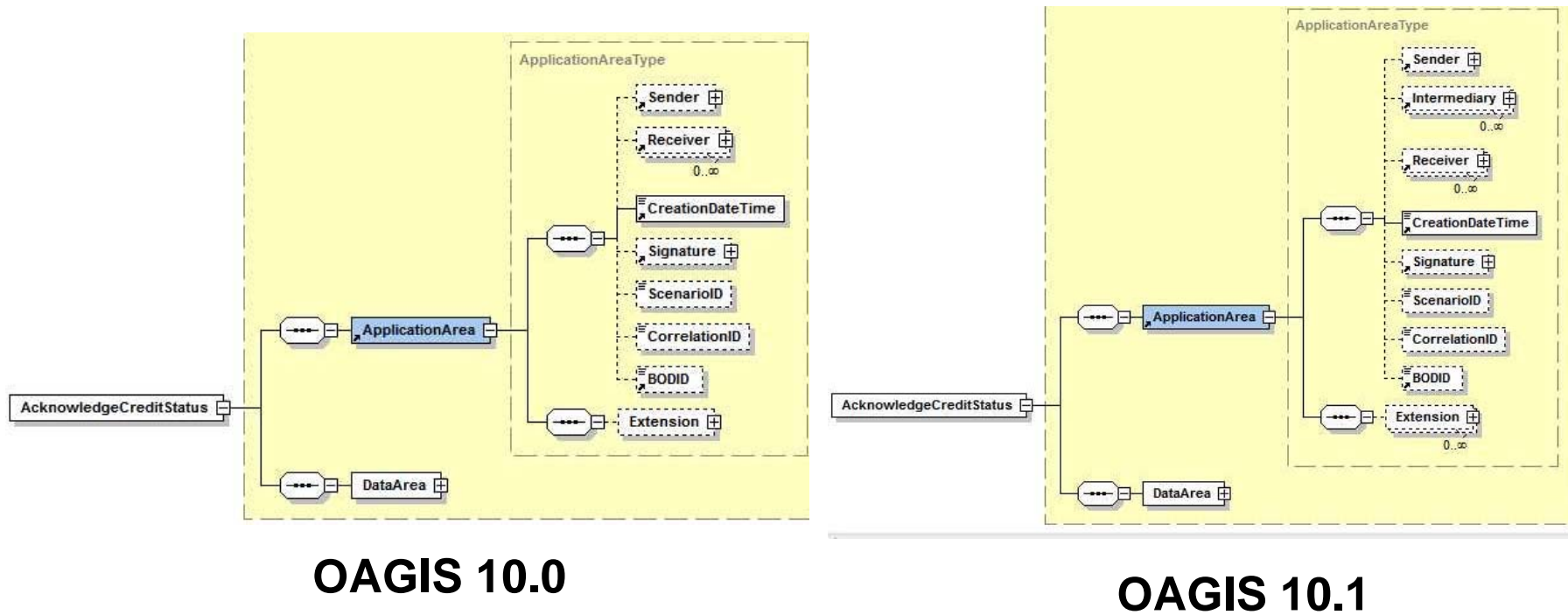


# Current Release OAGIS 10.1

- Released in July, 2014
- Mostly based on feedback from several of our members implementing OAGIS 10.0
- OAGIS 10.1 is backwardly compatible with OAGIS Release 10.0.
- Added an Intermediary area with 0 to infinite cardinality to the Application area to support Mobile and Cloud Computing as well as to support complex logistics. The Intermediary is designed to be the Senders' and Receivers' steps along the way to the Final Receiver in the path
- Added the FinancialAccount and References Groups to PartyMaster, SupplierPartyMaster and CustomerPartyMaster
- Added ReceiptDiscrepancy capability to describe the issue to ReceiveDeliveryItemType
- Added an OAGIS Test Request on the Inspect Delivery Line



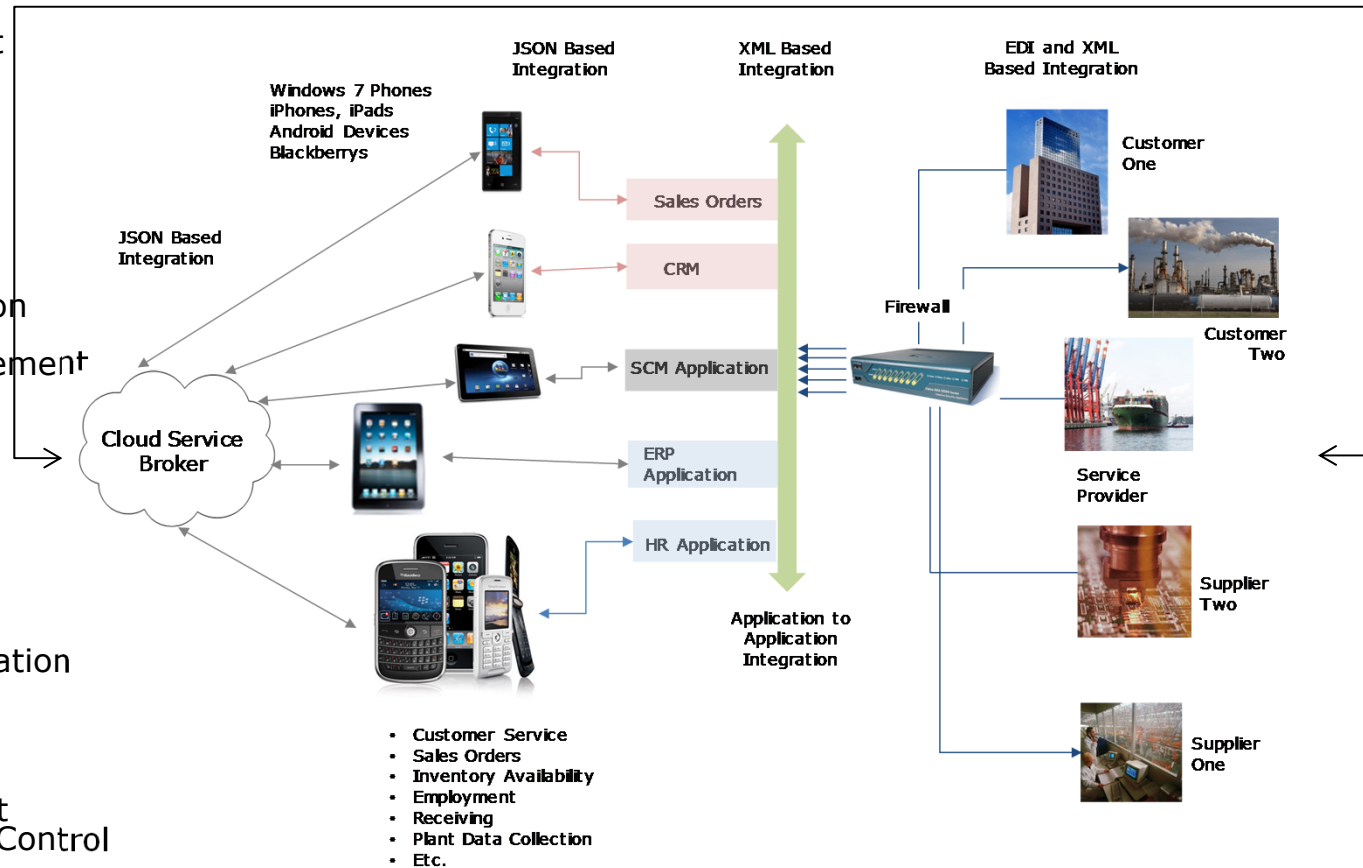
# OAGIS 10.1 Changed BOD Architect





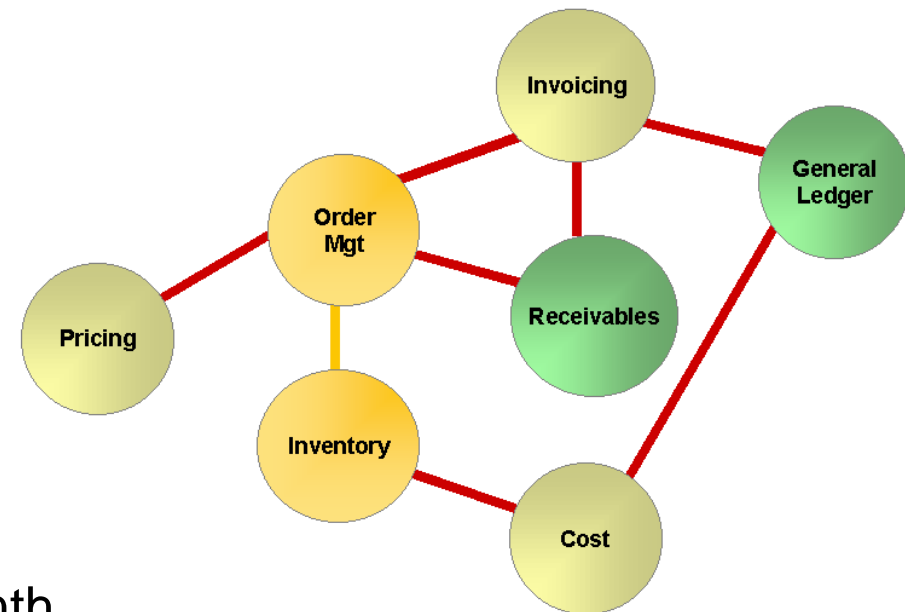
## OAGIS® 10.1 Scope More coming soon!

- **eCommerce**
  - e-Catalog
  - Price Lists
  - RFQ and Quote
  - Order Management
  - Compliance
  - Purchasing
  - Invoice
  - Payments
- **Manufacturing**
  - Engineering
  - MES
  - Shop Floor
  - Plant Data Collection
  - Conformance
  - Warehouse Management
- **Logistics**
  - Orders
  - Shipments
  - Routings
  - Tracking
- **CRM**
  - Opportunities
  - Sales Leads
  - Customer
  - Sales Force Automation
- **ERP**
  - Financials
  - Human Resources
  - Manufacturing
  - Credit Management
  - Sarbanes/Oxley & Control



# OAGIS 10.2 is Coming!

- Quality Content
  - Four new Nouns
    - TestMaster
    - TestSpecification
    - InspectionOrder
    - TestResults
  - Two Changed Nouns
    - ItemCertificateOfAnalysis
    - Batch CertificateOfAnalysis
  - Components changes
  - Fields changed
- PartyMaster changes
- BPMN Version of Scenarios
- On schedule to release next month





# Current OAGi Standards

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- OAGIS 10.0, 10.1
- OAGIS Release 9.6.1
- OAGIS 9.x, 8.0, 7.x, and 6.x
- OAGIS 9.x Naming and Design Rules
- Data Management Guide
- Confirm BOD Usage
- Get/Show Usage guide
- Chem eStandards 5.x, 4.x, 3.x, 2.x
- Chem eStandards Use Report
- Chem eStandards Business Process Guidelines





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# OAGi User Demographics



# 2016 How do you use OAGIS?

\* Please tell us how you are using OAGIS or plan to use OAGIS.

Answer	0%	100%	Number of Responses	Response Ratio
Business to Business			<a href="#">6</a>	60.0%
Application to Application			<a href="#">3</a>	30.0%
Business to Consumer			<a href="#">1</a>	10.0%
In the Cloud			<a href="#">4</a>	40.0%
Mobile			<a href="#">1</a>	10.0%
In API's			<a href="#">2</a>	20.0%
Web Services			<a href="#">5</a>	50.0%
SOA Implementation			<a href="#">1</a>	10.0%
Other <a href="#">(View all)</a>			<a href="#">1</a>	10.0%
<b>Totals</b>			<b>10</b>	<b>100%</b>

[View comments \(2\)](#)



# 2016 How do you use OAGIS?

\* Please tell us how you are using OAGIS or plan to use OAGIS.

2 Responses

Answer	Respondent
Canonical pattern JSON	Anonymous
Mostly A-to-A integration across 10 Command Alkon software products, plus integration to third-party ERP/financial products utilized by our customers. Two Mobile products in alpha test stage.	Anonymous



# Sample of BODs implemented

## Which OAGIS BODs have you implemented?

6 Responses

10 per

Answer	Respondent
ProcessRemittanceAdvice in production SyncTestMethod in UAT SyncTestSpecification in UAT ProcessInspectionOrder in UAT SyncTestResult in UAT SyncPartyMaster in Discovery SyncInvoice in Development SyncPurchaseOrder in Development	Anonymous
Purchase Order ConfirmBOD Acknowledgement Receipt Delivery Sync Item Master ShowShipment	Anonymous
jhQsAO yxnfmfbnpwiv, [url=http://okdpxwuvhbpz.com/jokdpxwuvhbpz[/url], [link=http://jjjrbbblbajgy.com/jjjrbbblbajgy[/link], http://yfuhzfnrgcgc.com/	Anonymous
Catalog Credit CustomerPartyMaster InventoryBalance InventoryConsumption Invoice ItemMaster PartyMaster Personnel PlanningSchedule ProductionPerformance ProductionSchedule PurchaseOrder ReceiveDelivery RemittanceAdvice SalesOrder Shipment ShipmentSchedule ShipmentUnit	Anonymous



# Who Downloads OAGIS?

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- OAGi gets between 4 – 8 new registrations per business day
- 431 new registrations Jan. 1, 2016 through March 29, 2016 – approx 7+ per working day
- 11,591 as of April 13, 2016
- They come from all over the world





# Country Representation Website Registrations

Continent	Number of Countries
Africa	12
Asia	17
Australia/Oceania	4
Europe	40
Middle East	8
North America	7
South America	11
Total Registrations	99



# Who Uses OAGIS?



# OAGIS around the world



Approx 100 Countries



# Some Industries Supported by OAGIS

- Automotive
- Aerospace
- Agriculture
- High-Tech
- Chemical
- Metals
- Shipping
- Life Sciences
- Retail Supply Chain
- Government Agencies
- Discrete Manufacturing



# Other Industry Adoption Examples

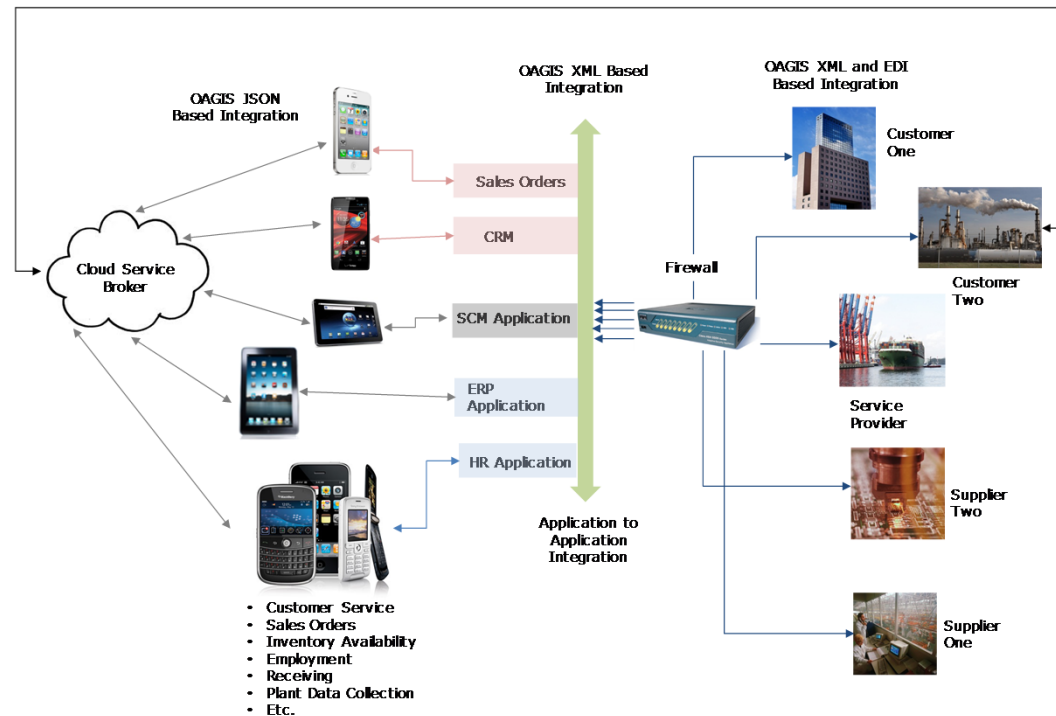
- Telia Sonera
- Land O'Lakes
- US Steel
- Merck
- Ingersoll Rand (Ireland)
- IBM
- National Bank of Abu Dhabi
- UK Ministry of Defence
- General Electric
- SKF (Sweden)
- Black and Decker
- Campbell's Soup (Australia)
- Staples
- Woolworths (Australia)
- British and American Tobacco
- Siemens
- Johnson and Johnson
- Engelhard
- Cargill
- Emerson
- Agilent



# The Way Forward

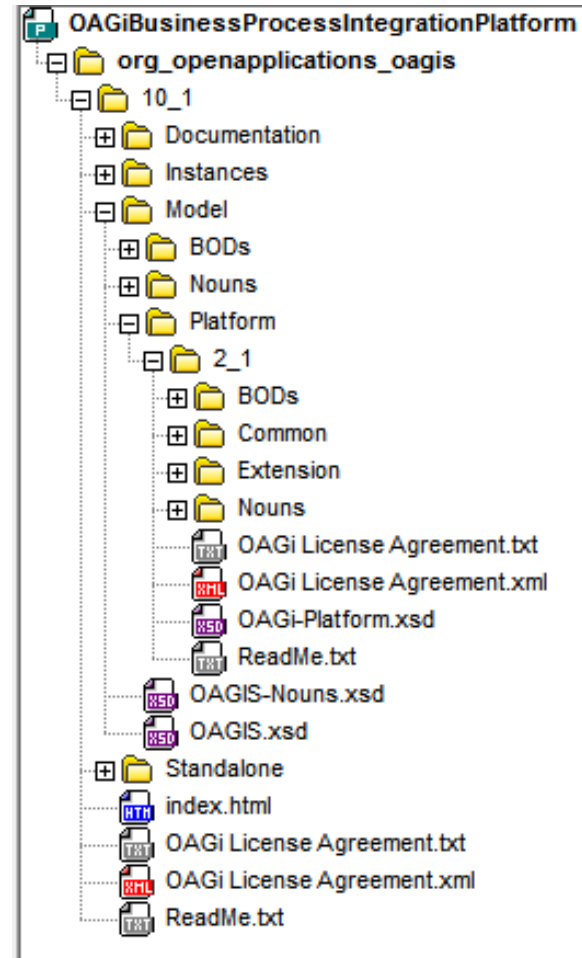


- The OAGIS Cloud, Mobile, JSON work will be OAGIS Release 10.x based
- Focus for Cloud and Mobile is REST-based API's using OAGIS components and Nouns
- All new technology and content enhancements will go into OAGIS Release 10.x
- It is the platform of the future for OAGIS



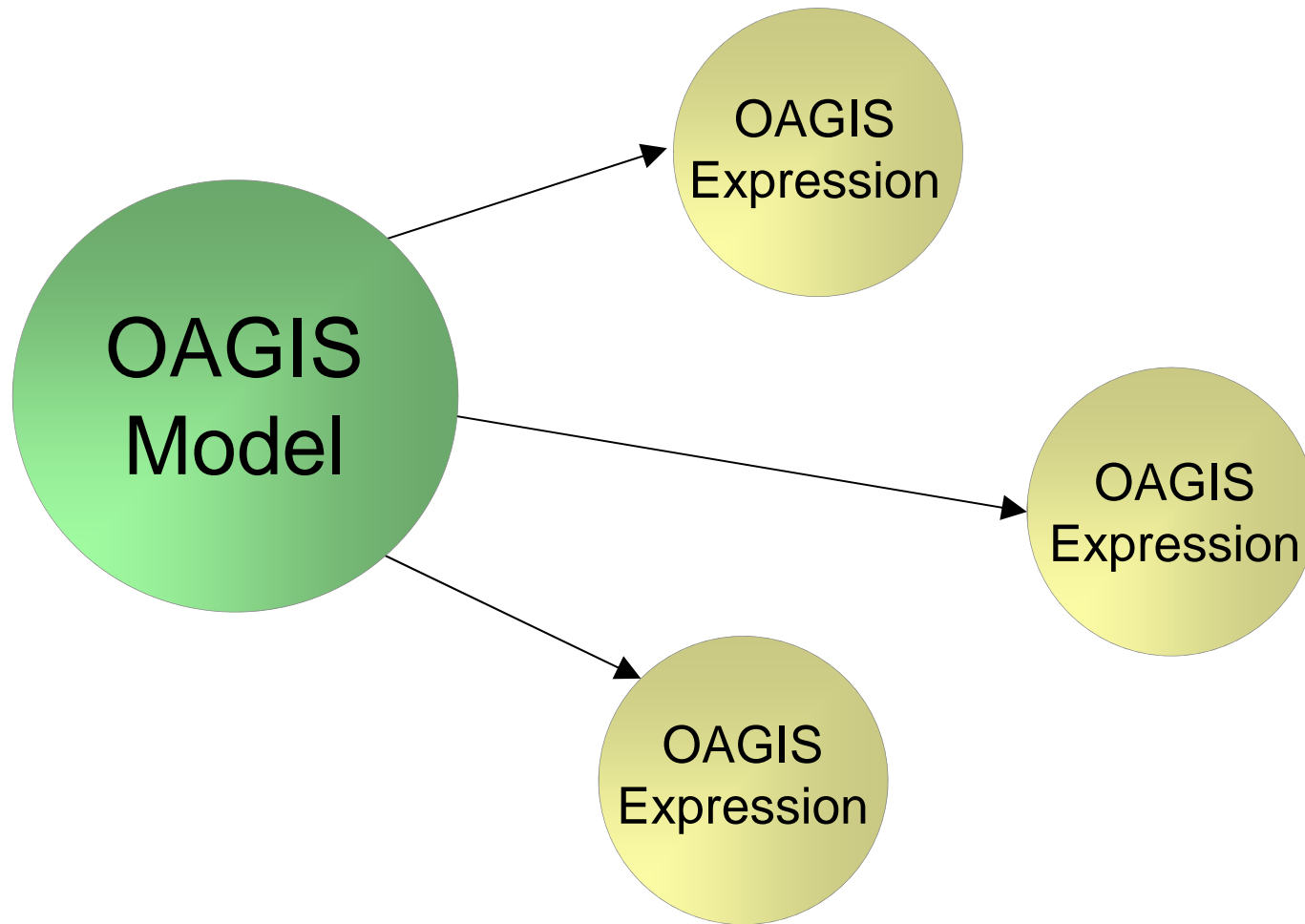
# The Model

- All of building blocks
  - The Platform
  - The Meta Model
  - BOD Architecture
  - Messaging Architecture
  - Nouns
  - Verbs
- The “OAGIS Standard Edition” is a set of generated expressions from the model
- Enables Contextualized Versions all based on same model
- Enables generating of other expressions such as JSON while maintaining the normative Model



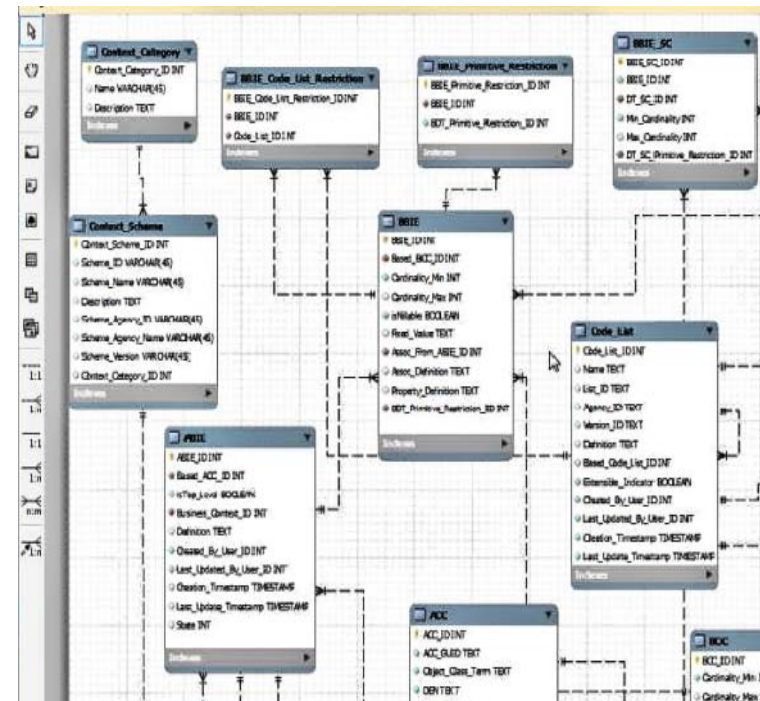


# Model Concept



# Semantic Refinement and Tooling WG

- As part of the Semantic Enhancement WG, they are designing a DBMS Model for OAGIS
- The goal is to increase the ability to generate better contextualized versions of OAGIS more easily
- More later, including a demo . . .





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# OAGi Resources Available



# Other Resources Available

## Business and Technical Resources for members

[OAGi Training Video - How to do OAGIS 10.X Extensions](#)

[A Short Walk through OAGIS 9.6](#)

An insightful presentation on how to navigate the OAGIS Standard and Architecture.

[OAGIS Training Video 1 of 3](#)

Flash video recording of OAGIS Training. 7 Minutes, 7 MB

[OAGIS Training Video 2 of 3](#)

Flash video recording of OAGIS Training. 42 Minutes, 58 MB

[OAGIS Training Video 3 of 3](#)

Flash video recording of OAGIS Training. 27 Minutes, 35 MB

[Chemical Industry Webinar 1 Recording](#)

Download the recording of the May 18, 2010 featuring Tom Fannon of Ashland and Chair of the OAGi Chemical Industry Council.

[Chemical Industry Webinar 2 Recording](#)

This webinar features Nancy Fazzoni from Dow and Tom Fannon from Ashland. In this webinar Nancy and Tom discuss their experiences with implementing B2B.

[Core Components Training Class](#)

See the April 2010 issue of our monthly newsletter for an update on announcements, accomplishments, and activities.

[Who Uses OAGIS?](#)

An update on industries and companies using OAGIS.

### Member Business

[OAGi Calendar](#)

[OAGi Development Methodology](#)

[OAGi IPR Policy](#)

[OAGi Anti-Trust Policy](#)

## OAGIS Releases and Resources

These are the resources that are free only to OAGi members. The others are available on the regular website here.

### Member Only OAGIS Releases

These are available at the Members Only Tab on the top right Webpage Menu

### OAGIS Resources

[OAGIS EDI Cross Reference](#)

[OAGIS BOD Flattener](#)

[OAGIS 10.X Architecture Document](#)

[Confirm BOD Specification](#)

[Get/Show Usage Position Paper](#)

[Data Management Position Paper](#)

[OAGIS 9.5.1 Data Dictionary – Excel and .HTML formats](#)

[OAGIS Navigator for Chem eStandards \(zip; 3.2 MB\)](#)

[OAGi Member Badges](#)

[Learn more about discounts on OAGIS Training and Service here](#)



# OAGi You Tube Channels

The screenshot displays the YouTube channel page for OAGi Information. The channel name is "OAGi Information" with a "Subscribe" button showing 2 subscribers. The navigation menu includes Home, Videos, Playlists, Channels, Discussion, and About. The main content area shows three video uploads:

- OAGIS Information uploaded a video**  
Video: **OAGIS Release 10.0 New Features**  
1 month ago • 27 views  
Thumbnail: A diagram titled "Model Concept" showing the OAGIS Model at the center, connected to OAGIS Enterprise, OAGIS Information, and OAGIS Applications.
- OAGIS Information uploaded a video**  
Video: **OAGi Mobile Cloud Strategy**  
1 month ago • 18 views  
Thumbnail: A screenshot of a presentation slide titled "OAGi Mobile Cloud Strategy".
- OAGIS Information uploaded and posted**  
Customize your message  
Video: **Introduction to OAGIS**  
1 month ago • 28 views  
Thumbnail: A screenshot of a presentation slide titled "How OAGi Works".

On the right side, there are two sections:

- Featured Channels**: OAGIS for new users (Subscribe)
- Popular channels on YouTube**:
  - HolaSoyGerman (Subscribe)
  - JennaMarbles (Subscribe)
  - PewDiePie (Subscribe)
  - OneDirectionVEVO (Subscribe)
  - RihannaVEVO (Subscribe)
  - Smosh (Subscribe)



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**Thank you!**