Thank You to NIST for 15 Years of Hosting

National Institute of Standards and Technology
U.S. Department of Commerce
“By participating in this meeting, you acknowledge that you and the company you represent accept the OAGi Anti-Trust Guidelines and the OAGi IPR Policy. Details of these policies and guidelines are available on the OAGi website at www.oagi.org.”
Welcome and Introductions
### OAGi Meeting Agenda

**Wednesday, April 20, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am -</td>
<td>Registration and Coffee</td>
</tr>
<tr>
<td>8:30 am - 9:30 am</td>
<td><strong>Opening Plenary</strong>&lt;br&gt;This session updates the audience on OAGi business status and technical initiatives.&lt;br&gt;David Connell, OAGi</td>
</tr>
<tr>
<td>9:30 am - 10:30 am</td>
<td><strong>NIST Keynote</strong>&lt;br&gt;Dr. Sokwoo Rhee: Associate Director of Cyber-Physical Systems Program at the National Institute of Standards and Technology (NIST)</td>
</tr>
<tr>
<td>10:30 am - 11:00 am</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:00 am - 12:00 pm</td>
<td><strong>OAGIS 10.2 Update and Briefing</strong>&lt;br&gt;This session will update the Plenary on the upcoming OAGIS Release 10.2&lt;br&gt;David Connell, OAGI and Michael Howell, Oracle</td>
</tr>
<tr>
<td>12:15 pm - 1:15 pm</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>1:00 pm - 1:15 pm</td>
<td><strong>Typecode usage in the Enterprise</strong>&lt;br&gt;Kevin Hinko, Jeff Rice, Boeing</td>
</tr>
<tr>
<td>1:15 pm - 2:30 pm</td>
<td><strong>Quality Content WG Update</strong>&lt;br&gt;Scott Nieman, Land O'Lakes, Evan Wallace, NIST, Frank Riddick, NIST, Frank Heinrich, IBASE:</td>
</tr>
<tr>
<td>2:30 pm - 3:15 pm</td>
<td><strong>Smart Manufacturing Working Group Review</strong>&lt;br&gt;Menad Ivezic, NIST and Boonsorn Kulvatunyou, NIST</td>
</tr>
<tr>
<td>3:15 pm - 3:45 pm</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>3:45 pm - 5:45 pm</td>
<td><strong>Semantic Enhancement Working Group Review</strong>&lt;br&gt;Boonsorn Kulvatunyou, NIST and Mike Howell, Oracle</td>
</tr>
<tr>
<td>5:00 pm - 6:00 pm</td>
<td><strong>Open Discussion and Questions</strong>&lt;br&gt;Let’s also create the list for tomorrow AM&lt;br&gt;David Connell, Mike Howell, and Jim Wilson</td>
</tr>
<tr>
<td>6:30 pm - 8:00 pm</td>
<td><strong>Casual Dinner Together - Optional</strong></td>
</tr>
</tbody>
</table>
### OAGi Meeting Agenda

#### Thursday, April 21, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am – 9:45 am</td>
<td><strong>Open Discussion – Bring Your Questions, Comments, and Suggestions</strong>&lt;br&gt;David Connelly and Mike Rowell review the current OAGi Technical Programs and answer your questions in an Open Feedback Session</td>
</tr>
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<td>9:45 am – 10:15 am</td>
<td>Coffee Break</td>
</tr>
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<td>10:15 am – 11:30 am</td>
<td><strong>Open Discussion – Bring Your Questions, Comments, and Suggestions</strong>&lt;br&gt;David Connelly and Mike Rowell review the current OAGi Technical Programs and answer your questions in an Open Feedback Session</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Day Over</td>
</tr>
</tbody>
</table>
OAGi Membership Now

- 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

**Employees**

David Connelly  
CEO  
dmconnelly@oagi.org  
+1 770 331 8636

Michelle Rascoe  
Business Manager  
mrascoe@oagi.org  
+1 404 402 1962

**Contractors**

Jim Wilson  
OAGi Chemical Industry Council Architect  
jwilson@oagi.org  
+1 (816) 525-2000

**Loaned Staff**

Mike Rowell  
Chief Architect  
(part-time on loan from Oracle)  
mrowell@oagi.org or mrowell@oracle.com  
+1 704 630 6914
• 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

- 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
Cloud BPMN Service

- Launched with Onboarding Video
- Quality Content WG using the tool
- OAGi has 20 license 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
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

Authors:
Michael Rowell, Oracle, OAGi
David Connelly, OAGi

Contributors:
Scott Nieman, Land O’Lakes
Steffen Fohr, ADP
Frank Heinrich, iBASEt
Kurt Kanaskie, Invited Expert
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-95 and Quality Content WG

- 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
• 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 Financial Account and References Groups to Party Master, Supplier Party Master and CustomerPartyMaster
• Added Receipt Discrepancy capability to describe the issue to Receive Delivery Item Type
• Added an OAGIS Test Request on the Inspect Delivery Line
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® 10.1 Scope

Cloud Service Broker

Windows 7 Phones
iPhones, iPads
Android Devices
Blackberrys

JSON Based Integration

XML Based Integration

EDI and XML Based Integration

Firewall

Customer One

Customer Two

Service Provider

Supplier Two

Supplier One

Application to Application Integration

Customer Service
- Sales Orders
- Inventory Availability
- Employment
- Receiving
- Plant Data Collection
- Etc.
OAGIS 10.2 is Coming!

- Quality Content
  - Four new Nouns
    - Test Master
    - Test Specification
    - Inspection Order
    - Test Results
  - Two Changed Nouns
    - Item Certification of Analysis
    - Batch Certificate of Analysis
  - Components changes
  - Fields changed
- Party Master changes
- BPMN Version of Scenarios
- Planned for late June, 2016
Current OAGi Standards

- OAGIS 10.0, 10.1
- OAGIS Release 9.6.1
- OAGIS 9.X Naming and Design Rules
- Data Management Guide
- Confirm BOD Usage
- Get/Show Usage guide
- Chem eStandards Use Report
- Chem eStandards Business Process Guidelines
OAGi User
Demographics
2016 How do you use OAGIS?

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

<table>
<thead>
<tr>
<th>Answer</th>
<th>0%</th>
<th>100%</th>
<th>Number of Responses</th>
<th>Response Ratio</th>
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<tbody>
<tr>
<td>Business to Business</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Application to Application</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Business to Consumer</td>
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<tr>
<td>In the Cloud</td>
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<td></td>
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</tr>
<tr>
<td>Mobile</td>
<td></td>
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<tr>
<td>In API's</td>
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<td></td>
<td></td>
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<tr>
<td>Web Services</td>
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<td></td>
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</tr>
<tr>
<td>SOA Implementation</td>
<td></td>
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<tr>
<td>Other (View all)</td>
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<td></td>
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</table>

Totals 10 100%

View comments (2)
**2016 How do you use OAGIS?**

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

<table>
<thead>
<tr>
<th>Answer</th>
<th>Respondent</th>
</tr>
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<tbody>
<tr>
<td>Canonical pattern</td>
<td>Anonymous</td>
</tr>
<tr>
<td>JSON</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td>Anonymous</td>
</tr>
</tbody>
</table>
## Sample of BODs implemented

### Which OAGiS BODs have you implemented?

<table>
<thead>
<tr>
<th>Answer</th>
<th>Respondent</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProcessRemittanceAdvice in production</td>
<td>Anonymous</td>
</tr>
<tr>
<td>SyncTestMethod in UAT</td>
<td>Anonymous</td>
</tr>
<tr>
<td>SyncTestSpecification in UAT</td>
<td>Anonymous</td>
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<tr>
<td>ProcessInspectionOrder in UAT</td>
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<tr>
<td>SyncTestResult in UAT</td>
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<tr>
<td>SyncPartyMaster in Discovery</td>
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<tr>
<td>SyncInvoice in Development</td>
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<tr>
<td>SyncPurchaseOrder in Development</td>
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<tr>
<td>Purchase Order</td>
<td>Anonymous</td>
</tr>
<tr>
<td>ConfirmBOD</td>
<td>Anonymous</td>
</tr>
<tr>
<td>Acknowledgement Receipt Delivery</td>
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<tr>
<td>Sync Item Master</td>
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<tr>
<td>ShowShipment</td>
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<td>jhQsA0xyHmfnpbwv, <img src="link" alt="url=http://okdxpwuvhbpz.com/jokdxpwuvhbpz" />, <img src="link" alt="link=http://ijjrbbibajgy.com/ijjrbbibajgy" />, <img src="link" alt="http://ytuhzfnrgcgc.com/" /></td>
<td>Anonymous</td>
</tr>
<tr>
<td>Catalog</td>
<td>Anonymous</td>
</tr>
<tr>
<td>Credit</td>
<td>Anonymous</td>
</tr>
<tr>
<td>CustomerPartyMaster</td>
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<tr>
<td>InventoryBalance</td>
<td>Anonymous</td>
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<td>InventoryConsumption</td>
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<td>Invoice</td>
<td>Anonymous</td>
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<tr>
<td>ItemMaster</td>
<td>Anonymous</td>
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<tr>
<td>Party/ Master</td>
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<tr>
<td>Personnel</td>
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<td>PlanningSchedule</td>
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<td>ProductionPerformance</td>
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<tr>
<td>ProductionSchedule</td>
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<tr>
<td>PurchaseOrder</td>
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<tr>
<td>ReceiveDelivery</td>
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<td>RemittanceAdvice</td>
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<td>SalesOrder</td>
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<td>Shipment</td>
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<tr>
<td>ShipmentSchedule</td>
<td>Anonymous</td>
</tr>
<tr>
<td>ShipmentUnit</td>
<td>Anonymous</td>
</tr>
</tbody>
</table>
Who Downloads OAGIS?

- 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

<table>
<thead>
<tr>
<th>Continent</th>
<th>Number of Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>12</td>
</tr>
<tr>
<td>Asia</td>
<td>17</td>
</tr>
<tr>
<td>Australia/Oceana</td>
<td>4</td>
</tr>
<tr>
<td>Europe</td>
<td>40</td>
</tr>
<tr>
<td>Middle East</td>
<td>8</td>
</tr>
<tr>
<td>North America</td>
<td>7</td>
</tr>
<tr>
<td>South America</td>
<td>11</td>
</tr>
<tr>
<td><strong>Total Registrations</strong></td>
<td><strong>99</strong></td>
</tr>
</tbody>
</table>
OAGIS around the world

Approx 100 Countries
Some Industries Supported by OAGIS

- Aerospace
- Automotive
- Chemical
- Agriculture
- High Tech
- Metals
- Discrete Manufacturing
- Government Agencies
- Life Sciences
- Retail Supply Chain
- Shipping
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
Questions?
The Way Forward
OAGIS 10.X 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.
• 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

OAGIS Model

OAGIS Expression

OAGIS Expression

OAGIS Expression
• 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 . . .
Questions?
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
Husky announces new cost-saving barrier solution

Barrier module offers freedom of design to distinguish products for maximum shelf appeal in ways that were previously impossible.

Learn more >

Let’s Stay Connected!
New Canadian Anti-Spam Legislation came into effect on July 1st. To stay informed of Husky news, events and product updates we need you to take action.

Click here to stay connected >

Shotscope™ NX Energy Monitoring Module

Shotscope™ NX Energy Monitoring Module allows for real-time energy monitoring for increased efficiency and cost-savings.

Learn more about Shotscope™ NX >

Mold your future at Husky!

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Dometic Group is the preferred development partner and equipment supplier to RV manufacturers, boat builders, commercial- and passenger-vehicle manufacturers, hotels, retailers and more than 12,000 dealers and technical service companies all over the world.
Bratslava, Slovakia
Yeni Nesil Mobil ÖKC

İngenico iWE280 İLE YENİ NESİL ÖDEME KAYDEDİCİ CİHAZ ONAYIMIZİ ALDIK

Instanbul, Turkey
Prova vår storsäljare FlowTarget!

Vår nya strategiproduct FlowTarget™ är blivit en stor framgång, både för oss och för våra kunder.

Läs mer och anmäl ditt intresse.
From now until the end of 2015, new fiber optic customers get the first month of service free.

Fiber Optic connections are replacing DSL as the primary form of internet access. The current infrastructure is being replaced as the old copper phone lines are being switched out with faster digital fiber optic lines. We offer speeds ranging from 1.5mb for basic service such as browsing/email, 3mb for entry level video streaming such as netflix and hulu, 6mb for higher quality video and gaming and if you're within range, up to 45mb for those of you who need tons of bandwidth for servers or large office environments with many computers. The $99 installation fee covers the modem and wireless router plus on site installation.

Call our offices to get more info or to set up your installation. Our support staff can help you choose which speed package is best for your needs.
Questions?