OSCRE is the trading name of OSCRE Americas Inc., part of the OSCRE International global network supporting the Americas.

OSCRE Americas Inc. is registered in Washington, District of Columbia.

E-mail: info@oscre.org
Web: www.oscre.org

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Version History

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<tr>
<th>Version</th>
<th>Author</th>
<th>Date</th>
<th>Description</th>
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<td>Andy Fuhrman</td>
<td>March 29, 2004</td>
<td>Document Creation</td>
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<td>April 4, 2004</td>
<td>Incorporated feedback from OSCRE International Executive Board</td>
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<td>Chris Lees</td>
<td>May 26, 2004</td>
<td>Section 2: Verbiage Modification</td>
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## Contents

1. Mission ................................................................................................... 4
2. Industry Focus ........................................................................................ 4
3. Methodology ............................................................................................ 4
4. Document Purpose ................................................................................... 5
5. About OSCRE .......................................................................................... 5
5.1 OSCRE International Executive Board Members ..................................... 6
5.2 Projected OSCRE Timeline .................................................................. 7
5.3 OSCRE Working Groups ........................................................................ 7
5.4 International Participation ...................................................................... 8
5.5 U.S. Headquartered Organizations ........................................................ 9
   CoreNet Global, Inc. ................................................................................. 9
   NCREIF .................................................. 10
   NAREIM ................................................................................... 12
   PREA .............................................. 13
   National Association of Realtors (NAR) .................................................. 14
   Appraisal Institute ........................................................................... 15
   NIBS ................................................................................. 16
   IFMA ................................................. 18
   BOMA ............................................................................. 19
   AIA .................................................................................. 20
   GSA ................................................................................ 21
   MISMO ................................................ 23
5.6 International Headquartered Organizations ........................................... 25
   Land Registry ............................................................................. 25
   Investment Property Forum ................................................................. 26
   British Property Federation ................................................................. 27
   Legal Software Suppliers Association ................................................ 28
   PWGSC ............................................................................. 29
   RICS .............................................................................. 31
   Council of Mortgage Lenders ............................................................. 32
5.7 Technology Standards Development Organizations ................................ 34
   OASIS ............................................................................. 34
   Universal Business Language ............................................................... 36
   EbXML ................................................................. 37
   Data Consortium ......................................................................... 38
   Open Applications Group ................................................................. 40
   International Alliance for Interoperability (IAI) ..................................... 41
   FIATECH ........................................................................ 44
1 Mission

OSCRE International is a not-for-profit consortium that drives the development, synthesis, and adoption of e-business standards that enable the Real Estate industry to function effectively and efficiently in the new economy.

2 Industry Focus

The goal for OSCRE is to facilitate a greater level of coordination, standardization and collaboration across the key stakeholders in the CRE and Owner/Investor industry - corporations, public agencies, service providers, management consulting organizations, software vendors and suppliers. The role of web-based technology as an enabler is paramount to this effort. The need for a standard methodology and language is fundamental for the corporate real estate 'supply chain' to operate and communicate within today's e-business environment.

The supply chain represents all the players involved in corporate real estate business such as the corporate real estate departments, owners, developers, property management firms, broker firms, AEC firms, various service providers, and suppliers. Regardless of the industry, all real estate groups face the same issues of needing methodologies, systems and tools to plan, buy, build, sell, lease and manage real estate portfolios. Yet organizations and the various stakeholders have different work processes, priorities and even use different vocabularies, so that any solution developed for one organization isn’t easily deployed at another, much less integrated. Thus without industry agreement of standards for high level RE business processes, effective technology solutions and tools to achieve supply chain efficiencies can not be developed and deployed.

3 Methodology

The OSCRE International Standard is a set of definitions and rules to facilitate automatic transfer of data between different types of software packages that are used regularly by real estate portfolio managers and their advisors. The Standard defines a vocabulary (the data items) and grammar (order and file format) so that any two systems can exchange information unambiguously. It is not itself a piece of software but an enabling technology that allows software providers to prepare solutions within their own packages to transfer data between databases.

The OSCRE International Standard is one of a family of modern standards for electronic data transfers that are being developed using Extensible Mark-up Language (XML). XML is not a programming language, but is a set of rules for designing text formats to structure data. It has been developed and is supported by the world’s leading technology companies who formed the World Wide Web consortium (W3C) to control the development of the Internet. XML has been defined by this group to meet the explosion of international demand for transfer of data between systems and via the internet. Development work is now underway on a wide range of international data exchange standards using XML.
4 Document Purpose

This document has been developed as an informational guide, providing a brief description of the Open Standards Consortium for Real Estate (OSCRE) organization and the value of its international industry-wide alliance partnerships, either existing, or in-progress. Organizations that have been identified as critical supply chain stakeholders for the built-environment, but have not yet been contacted for collaboration are identified as on our “Roadmap”.

Additional OSCRE related information is available at the OSCRE website located at http://www.oscre.org or by contacting members of OSCRE’s Executive Board.

5 About OSCRE

OSCRE began as “Operation eCRE” in September 2000 at the IDRC Silicon Valley Discovery Forum at a grass roots level, organized and operated by a group of corporate real estate technology managers from companies such as Cisco, Microsoft, Sprint, Sun Microsystems, Citigroup, Capital One, and Intel. Recent developments in the evolution of our standards development consortium lead to the creation and launch of OSCRE at RealComm 2003 on June 4, 2003.

Evolution of OSCRE Americas - Timeline
The consortium operates through four legal entities:

**OSCRE International:** This is the global umbrella organization where standards development methodology, operational methods and governance is determined.

**OSCRE Americas Incorporated:** The regional organization representing the Americas (the continents of North and South America).

**PISCES Limited:** The regional organization representing Europe, the Middle East and Africa.

**OSCRE Asia–Pacific**: The regional organization representing Asia and Australia.

The three (3) regional organizations are not subsidiaries of OSCRE International, but instead are members. The membership agreement for each organization binds them to operate the region according to the OSCRE Operations Manual together with provisions to ensure the reasonable longevity of the initiative.

### 5.1 OSCRE International Executive Board Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mattias Bergman</td>
<td>Infrastructure Solutions Group</td>
<td><a href="mailto:mattias.bergman@oscre.org">mattias.bergman@oscre.org</a></td>
</tr>
<tr>
<td>Ian Cameron</td>
<td>icameron.net</td>
<td><a href="mailto:ian.cameron@oscre.org">ian.cameron@oscre.org</a></td>
</tr>
<tr>
<td>Dave Clute</td>
<td>Cisco Systems</td>
<td><a href="mailto:dave.clute@oscre.org">dave.clute@oscre.org</a></td>
</tr>
<tr>
<td>Andy Fuhrman</td>
<td>CAFM Services</td>
<td><a href="mailto:andy.fuhrman@oscre.org">andy.fuhrman@oscre.org</a></td>
</tr>
<tr>
<td>Rick Huijbregts</td>
<td>CDI @ Harvard Design School</td>
<td><a href="mailto:rick.huijbregts@oscre.org">rick.huijbregts@oscre.org</a></td>
</tr>
<tr>
<td>Sandford Jacolow</td>
<td>OSCRE Americas</td>
<td><a href="mailto:sandy.jacolow@oscre.org">sandy.jacolow@oscre.org</a></td>
</tr>
<tr>
<td>Chris Lees</td>
<td>Calvis</td>
<td><a href="mailto:chris.lees@oscre.org">chris.lees@oscre.org</a></td>
</tr>
<tr>
<td>Keith Perske</td>
<td>SUN Microsystems</td>
<td><a href="mailto:keith.perske@oscre.org">keith.perske@oscre.org</a></td>
</tr>
<tr>
<td>Stephen Spooner</td>
<td>British Land</td>
<td><a href="mailto:stephen.spooner@oscre.org">stephen.spooner@oscre.org</a></td>
</tr>
</tbody>
</table>

1 The OSCRE International member representing Asia Pacific has not yet been formed. References to ‘OSCRE Asia Pacific’ refer to the legal entity that will be created in the future to represent that geopolitical area.
5.2 Projected OSCRE Timeline

5.3 OSCRE Working Groups

OSCRE Working Groups are currently working on the following use-case projects:

**Program and Project Management Working Group:** Auto-populating enterprise systems via Electronic Submittals and Deliverables

**Facilities Management Working Group:** B2BXML Work Order and Service Requests Automation - Joint project with OAGIS working group

**Strategy and Planning Working Group:** Performance Metrics Data Elements

**Real Estate:** TBA

**Financial Transactions Working Group:** To define extensions to the PISCES standard to enable the electronic exchange of investors’ financial transactions relating to property investments.

**Commercial Introductions Working Group:** Support the introductions of commercial investment opportunities by sellers to buyers, including retained and non-retained agents acting on behalf of each party.

**Legal Working Group:** Supports the property-legal processes in a way that is accessible and conducive to widespread adoption and ultimately facilitates faster transactions.

**Residential Working Group:** Supports all processes affecting the sale, purchase and mortgage of residential property in a way that is accessible and conducive to widespread adoption and ultimately facilitates faster and easier transactions.

**Valuation Data Transfer Working Group:** To ensure that files can be transferred between valuation, appraisal and Management software systems, without loss or corruption of Core data, and with minimal manual intervention.
5.4 International Participation

Organizations OSCRE International is working to build relationships with and a few of the metrics these organizations represent. (Select Organization for details)

- 1,400 organizations and 10,000 users with PISCES capability in Europe and North America

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<th># of Properties</th>
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</table>

2 Denotes Professional Associations and Standards Development Organizations. Does not include OSCRE general member listings.
3 Memorandum of Understanding
5.5 U.S. Headquartered Organizations

CoreNet Global, Inc.
260 Peachtree St., Ste. 1500
Atlanta, GA 30303
Tel. 404-589-3200
Tel. 800-726-8111
http://www.corenetglobal.org

Chairman
Sean B. McCourt
Ford Motor Land Services Corp.
313-322-4200
smccourt@ford.com

CoreNet Global Contact:
OSCRE Contact: Ian Cameron, David Clute
OSCRE Status:
☑ Member ☐ MOU ☐ Discussion
☐ Endorsed ☐ Roadmap

Members (Partial)
- Allied
- AT&T
- Bank of America
- Boeing
- BP Amoco
- British Air
- British Telecom
- Capital
- CB Richard Ellis
- Chevron/Texaco
- Chick-fil-A
- CIGNA
- Cisco Systems
- Cushman & Wakefield
- Domicq
- Exxon Mobil
- Financial Fidelity
- Fleet Boston
- Ford Motor
- General Motors
- Goodyear Tire
- Grubb & Ellis
- GSA
- Healy & Baker
- IBM
- Jones Lang LaSalle
- JP Morgan Chase
- Lockheed Martin
- Meijer
- Morgan Stanley
- Motorola
- NCR
- Norfolk Southern
- Nortel
- Northrop Grumman
- ONCOR International
- Oracle
- Prudential
- SBC
- Sears
- Shell Oil
- Sony
- Sun Microsystems
- Toyota
- Trammell Crow
- Tricon Global Restaurants
- Verizon
- Washington Mutual
- Wells Fargo Bank
**NCREIF**

**National Council of Real Estate Investment Fiduciaries**

Two Prudential Plaza
180 North Stetson Avenue
Suite 2515
Chicago, IL 60601
Tel. (312) 819-5890

**President**
Laurie E. Romanak, CB Richard Ellis

**Directors**
James Campbell, NY State Teachers Retirement System
Anne Pfeiffer, J.P. Morgan Fleming Asset Mgt.
Anthony J. Pierson, CIGNA Realty Investors
Kenny M. Smith, Deloitte & Touche LLP

**Contact:**
OSCRE Contact: Sandy Jacolow

**OSCRE Status:**
- Member
- MOU
- Discussion
- Endorsed
- Roadmap

- **Organization Type: Business Association**
- Association of real estate professionals
- Consists of investment managers, plan sponsors, academicians, consultants, appraisers, CPA's and other service providers who have a significant involvement in pension fund real estate investments.
- Address vital industry issues, promote research.
- Produces quarterly Property Index (NPI). NCREIF members submit data on all of their properties on a quarterly basis.
- The NPI consists of over 4,000 properties
- Market value over $135 Billion.
- Properties included in the index consist of core, stabilized properties held in a fiduciary setting. NCREIF also collects data on properties that do not qualify for inclusion in the NPI, such as taxable properties, properties held in opportunity funds, senior housing properties, self-storage, etc. but that data does reside in the NCREIF database for research purposes.

- **197 Member Organizations Listed**
- To foster understanding of the real estate asset class, through the collection and dissemination of information, performance measurement, standards, research and education.
- "Sponsored research activities"
- "Dissemination of information"
- The Real Estate Information Standards (REIS) efforts of the National Council of Real Estate Investment Fiduciaries (NCREIF), the Pension Real Estate Association (PREA), and the National Association of Real Estate Investment Managers (NAREIM).
- Joint Task Force, consisting of Thomas Eastman of NAREIM, D. Wylie Greig of NCREIF, and Marshall Peck of PREA, was created to oversee the process.
- The Real Estate Information Standards (REIS) Approved by NCREIF, PREA and NAREIM

**Members (See next page)**
- 100 Data Contributing Members
- 68 Professional Members
- 27 Academic Members
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<th>ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUARTERED ORGANIZATIONS</th>
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<td>• Campbell Group</td>
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<td>• CB Richard Ellis Investors</td>
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<td>• CIGNA Realty Investors</td>
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<td>• Cornerstone Real Estate Advisors, Inc.</td>
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<td>• Draper &amp; Kramer Realty Advisors</td>
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<td>• Equity Office Property Trust</td>
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<td>• Fidelity Management and Research Co.</td>
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<td>• Florida State Board of Administration</td>
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<td>• Forest Investment Associates</td>
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<td>• Fremont Realty Capital</td>
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<td>• Heitman Capital Management</td>
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<td>• Henderson Global Investors</td>
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<tr>
<td>• Hines National Office Partners</td>
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<td>• ING Clarion Partners</td>
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<tr>
<td>• INVESCO Realty Advisors, Inc.</td>
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<td>• J.P. Morgan Investment Management, Inc.</td>
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<td>• Kansas Public Employees Retirement System</td>
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<td>• Kensington Realty Advisors</td>
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<td>• LACERA</td>
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<td>• LaSalle Investment Management, Inc.</td>
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<td>• Ratcliffe, Call, Duffy, Hughes &amp; Company</td>
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<td>• Tulsa Commercial Property Services LLC</td>
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<td>• US Realty Consultants, Inc.</td>
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ALLIANCE ORGANIZATION SYNOPSIS  
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ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUARTERED ORGANIZATIONS

NAREIM
National Association of Real Estate Investment Managers
11755 Wilshire Boulevard, Suite 1380
Los Angeles, CA 90025-1539
Tel. 310.479.2219
http://www.nareim.org

Fredric Halperin, President
Penny Powell, VP & Chief Administrative Officer

Contact:
OSCRE Contact: Sandy Jacolow

OSCRE Status:
☐ Member ☐ MOU ☑ Discussion

☐ Endorsed ☐ Roadmap

Members
- AEW Capital Management, L.P.
- Allstate Investments, LLC
- American Realty Advisors
- Apollo Real Estate Advisors, L.P.
- Ballard, Biehl & Kaiser
- Bentall Capital
- Berwind Property Group
- Borealis Capital Corporation
- The Brookdale Group, LLC
- Cabot Properties
- Capri Capital
- CB Richard Ellis Investors, LLC
- CIGNA Realty Investors
- City Investment Fund, L.P.
- CMD Realty Investors
- Cohen Asset Management, Inc.
- Commonfund Realty, Inc.
- CommonWealth Partners, LLC
- Commonwealth Realty Advisors, Inc.
- Cornerstone Real Estate Advisers, Inc.
- Cousins Properties Incorporated
- Douglas Emmett Realty Advisors
- Equibase Capital Group, LLC
- Fidelity Management & Research Company
- First Management Group Investments, Inc.
- Fremont Realty Capital, LP
- GE Asset Management Incorporated
- GMAC Institutional Advisors LLC
- Grosvenor Americas Inc.
- GWL Realty Advisors Inc.
- Hart Advisers, Inc.
- Heitman
- Henderson Global Investors (North America)
- Hunt Realty Corporation
- ING Clarion
- Intercontinental Real Estate Corporation
- INVESCO Realty Advisors
- JPMorgan Fleming Asset Management
- Jamestown
- KBS Realty Advisors
- Kennedy Associates Real Estate Counsel, Inc.
- Kensington Realty Advisors, Inc.
- LaSalle Investment Management
- Legg Mason Real Estate Services
- Lend Lease Real Estate Investments, Inc.
- Lexington Corporate Properties Trust
- Lowe Enterprises Investment Management
- McMorgan & Company
- McWalters & Kelterer
- Mercantile Safe Deposit & Trust Company
- MONY Realty Capital, Inc.
- Morgan Stanley
- Morguard Investments Limited
- National Electrical Benefit Fund
- New Boston Fund, Inc.
- Northwestern Mutual Life Insurance Company
- ORIX Real Estate Equities, Inc.
- Principal Real Estate Investors
- Prudential Real Estate Investors
- Rothschild Realty
- RREEF
- Sarofim Realty Advisors Co.
- Sentinel Real Estate Corporation
- SSR Realty Advisors, Inc.
- St. Paul Properties, Inc.
- The Standard Life Assurance Company
- Sun Life Financial Realty Advisors Inc.
- TIAA-CREF
- TGM Associates L.P.
- Turner Dale Associates
- UBS Realty Investors LLC
- Urdang & Associates Real Estate Advisors
- USAA Real Estate Company
- Wells Real Estate Funds, Inc.
- WestWind Capital Partners

Organization Type: Business Association
Founded 1990
Provide the means for its members to meet in a non-competitive environment and have a candid dialogue on the challenges and opportunities in our industry on a timely basis.
NAREIM Members in aggregate, manage $320 Billion in Real Estate Assets.
ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUARTERED ORGANIZATIONS

PREA
Pension Real Estate Association
100 Pearl Street, 13th Flr.
Hartford, CT 06103
Tel. 860.692.6341
e-mail prea@prea.org
http://www.prea.org

Chairman
Dennis J. Martin
Director, Real Estate
Lucent Technologies Inc.

Contact:
OSCRE Contact:
OSCRE Status:
☐ Member
☐ MOU  ✔ Discussion
☐ Endorsed  ☐ Roadmap

Board of Directors Participating Firms
☐ Executive Committee
☐ Lucent Asset Management
☐ ING Clarion
☐ Utah Retirement Systems Secretary
☐ Massachusetts Institute of Technology
☐ Tennessee Consolidated Retirement System
☐ Praedium Group LLC
☐ Indiana Univ. Center for Real Estate Studies
☐ California Public Employees’ Retirement System
☐ Kansas Public Employees Retirement System
☐ Fidelity Management & Research Company

☐ The Townsend Group
☐ Principal Real Estate Investors, LLC
☐ Credit Suisse First Boston Corporation
☐ MacArthur Foundation
☐ Beacon Capital Partners
☐ Pension Consulting Alliance
☐ Heitman
☐ City Investment Fund, L.P
☐ DuPont Capital Management
☐ Ernst & Young LLP
☐ Morgan Stanley

Organization Type: Business Association
- Nonprofit organization whose members are engaged in the investment of tax-exempt pension and endowment funds into real estate assets.
- Founded in 1979
- PREA lists nearly 1,400 members, representing over 400 member firms across the United States, Canada, Europe and Asia.
- Members include representatives of corporate, Taft-Hartley and public retirement plans, real estate asset managers and property managers, REITs, consultants, attorneys, accountants, appraisers and others.
- To serve its members engaged in institutional real estate investment through the sponsorship of objective forums for education, research initiatives, membership interaction and the exchange of information.
- The Real Estate Information Standards were developed through a cooperative efforts of PREA, the National Association of Real Estate Investment Managers (NAREIM), and the National Council of Real Estate Investment Fiduciaries (NCREIF) to "increase the consistency with which (real estate) investments are evaluated and reported." The Standards are reviewed each year and revised or amended as necessary.
Alliance Organization Synopsis: US Headquartered Organizations

**National Association of Realtors (NAR)**

**Realtor.org**
**Realtor.com**
**Homestore.com**

National Association of REALTORS®
430 N. Michigan Ave.
Chicago, IL 60611
Tel. 800-874-6500

Contact: Bonnie Gottlieb
OSCRE Contact: Dave Clute
OSCRE Status:
- Member
- MOU
- Discussion
- Endorsed
- Roadmap

- **Organization Type: Business Organization**
- The NAR is the largest trade association in the United States that represents real estate professionals. NAR consists of residential and commercial real estate professionals, including brokers, agents, property managers, appraisers, counselors and others engaged in all aspects of the real estate industry. NAR had approximately 950,000 members as of December 2003.
- National Association of REALTORS owns Realtor.org/RCA, and the property site is operated by LoopNet®.
- Realtor.com is the official website of National Assoc. of Realtors.
- REALTOR.com offers potential homebuyers more than 2.1 million REALTOR(R)-listed homes for sale as well as the most brokers and agents to contact.
- Site provides home sellers with the Internet's largest marketplace to reach more than 5.25 million consumers per month.
- REALTOR.com(R) is operated by Homestore Inc. (Nasdaq:HOMS).
- Homestore.com® operates:
  - **REALTOR.com®, the official site of the National Association of REALTORS®;**
  - **HomeBuilder.comTM**, the official new homes site of the National Association of Home Builders;
  - **RENTNETTM**, an apartments, senior housing, corporate housing and self-storage resource;
  - **Homestore®, a home-related information destination with a mortgage financing emphasis.**
- Creates media and technology solutions to promote and connect Real Estate Professionals to consumers before, during and after a move.
- Collectively, these sites attract the largest online audience of home consumers - nearly 8 Million individuals per month.
- Homestore.com® offers visitors a convenient, one-stop source for Everything Home on the Internet® including the most comprehensive online database of property listings and real estate service providers, virtual tours, photos, resources, advice, decision support tools, and much more.
- Software includes our property listing management and customer relationship management applications for REALTORS®, Multiple Listing Services, or MLSs, and home builders, offered through our Top Producer®, WyldFyreTM, and Computers For Tracts, or CFT, businesses, respectively.

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Appraisal Institute

Headquarters Office
550 W. Van Buren St, Suite 1000
Chicago, IL 60607
Tel. 312-335-4100
http://www.appraisalinstitute.org/

Washington D.C. Office
2600 Virginia Avenue, N.W., Ste. 123
Washington, DC 20037
Tel. 202-298-6449

Contact: Tom Marta
Gary P. Taylor, MAI, SRA President, Chair
(631) 434-3300x317
gptmai@worldnet.att.net
Bruce A. Kellogg, MAI President Elect
(404) 853-5227
Bruce_Kellogg@cushwake.com
Richard D. Powers, MAI, SRA VP (04)
(603) 352-8545x101
dick.powers@verizon.net

OSCRE Contact: Chris Lees (PISCES)
OSCRE Status:
☑ Member    □ MOU    □ Discussion
☑ Endorsed   □ Roadmap

- **Organization Type: Business Organization**
- International association of professional real estate appraisers
- +18,000 members and 99 chapters throughout the United States, Canada and abroad.
- Its mission is to support and advance its members as the choice for real estate solutions and uphold professional credentials, standards of professional practice and ethics consistent with the public good.
- The Appraisal Institute is the acknowledged worldwide leader in residential and commercial real estate appraisal education, research, publishing and professional membership designation programs. Its extensive curriculum of courses and specialty seminars provides a well-rounded education in valuation methodology for both the novice and seasoned practitioner.
- The Appraisal Institute is also active in advocacy efforts on behalf of its members and the industry at large. Primarily through its Public Affairs office in Washington, D.C., the organization communicates regularly with legislators and regulators to encourage the adoption of appraisal policies that best serve the public interest.
- Lenders, government agencies, courts, corporations, investors and individual property owners continually seek out the opinions of designated Appraisal Institute members to guide their real estate decisions.
- In addition to providing opinions of market value and traditional appraisal services, designated members may answer your needs in some or all of these areas:
  - Arbitration
  - Absorption Studies
  - Business Valuation
  - Counseling
  - Consulting
  - Condemnation
  - Evaluations
  - Expert Witness Testimony
  - Litigation Preparation
  - Cost & Benefit Studies
  - Feasibility Studies
  - Management Advice
  - Market Analysis
  - Market Rent Studies
  - Market Trend Studies
  - Operating Expense Analysis
  - Renegotiating Private Mortgage Insurance
  - Tax Assessment Review & Advice
  - Zoning Testimony
ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUARTERED ORGANIZATIONS

NIBS
National Institute for Building Sciences
1090 Vermont Avenue, NW, Suite 700
Washington, DC 20005-4905
Tel. (202) 289-7800
http://www.nibs.org/

Chairman
Thomas B. McChesney - Grubb & Ellis

Vice Chairman
Charles H. Thornton, - Thornton-Tomasetti Group

Contact: Alexander (Sandy) Shaw
OSCRE Contact: Andy Fuhrman
OSCRE Status:
☐ Member    ☐ MOU    ☒ Discussion
☐ Endorsed    ☐ Roadmap

The Institute is home to:
- Bldg Environ. & Thermal Envelope Council
- Building Seismic Safety Council
- Facility Information Council
- International Alliance for Interoperability
- Multihazard Mitigation Council
- Facility Maintenance and Ops Committee

Organization Type: Business Organization
- Authorized by the U.S. Congress in the Housing and Community Development Act of 1974
- Congress recognized the need for an organization that could serve as an interface between government and the private sector.
- The Institute's public interest mission is to: improve the building regulatory environment; facilitate the introduction of new and existing products and technology into the building process; and disseminate nationally recognized technical and regulatory information.
- Through NIBS, Congress established a public/private partnership to enable findings on technical, building-related matters to be used effectively to improve government, commerce and industry.
- NIBS is a non-profit, non-governmental organization bringing together representatives of government, the professions, industry, labor and consumer interests to focus on the identification and resolution of problems and potential problems that hamper the construction of safe, affordable structures for housing, commerce and industry throughout the United States.
- NIBS provides an authoritative source of advice for both the private and public sector of the economy with respect to the use of building science and technology.
- Congress recognized that the lack of such an authoritative voice was a burden on all those who plan, design, procure, construct, use, operate, maintain and retire physical facilities, and that this burden frequently resulted from failure to take full advantage of new useful technology that could improve our living environment.
- NIBS has provided the opportunity for free and open discussion of issues and problems where there was once conflict and misunderstanding between government and the private sector construction industries. NIBS brings together representatives of regulatory agencies, legislators and representatives of the private sector to open working sessions that seek a consensus
- NIBS work with and that of the National Conference of States on Building Codes and Standards (NCSBCS) should be considered of significant importance to OSCRE for the Government Regulatory relationship with the Public. This includes all Federal, State, County and City regulatory agencies (Planning, Public Work, Fire, Zoning, Plan Check, Permitting, etc) utilizing adopted standards to interface with their Customers.
  - National Institute of Standards and Technology (NIST) established NCSBCS as a not-for-profit organization to represent, on a national level, the states’ building codes and public safety concerns.
  - Recent major NCSBCS initiatives have included programs to streamline the nation’s building regulatory process and increase U.S. international economic competitiveness.
ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUARTERED ORGANIZATIONS

Programs and projects include:
- HAZUS Multihazard Loss Estimation
- National Clearinghouse for Educational Facilities
- Total Building Commissioning
- Whole Building Design Guide
- Building Product Pre-Approval Program

NIBS also publishes:
- Construction Criteria Base (CCB)
- U.S. National CAD Standard
- Asbestos and Lead-Based Paint Guidance Manuals

Contributing Organizations
Gene C. Brewer
General Services Administration
International Facility Management Association
National Aeronautics and Space Administration
U. S. Department of Veterans Affairs

Sustaining Organizations
- American Forest & Paper Association
- American Iron & Steel Institute
- Associated Builders & Contractors, Inc.
- Building Owners & Managers Association International
- Canadian Wood Council
- CertainTeed Corporation
- Factory Mutual Research
- Institute for Business & Home Safety
- International Association of Plumbing & Mechanical Officials
- International Code Council, Inc.
- ISS Corporation
- National Association of Home Builders
- National Fire Protection Association
- Naval Facilities Engineering Command Headquarters
- North American Insulation Manufacturers Association
- Pittsburgh Corning Corporation
- SMACNA
- Smithsonian Institution
- Underwriters Laboratories, Inc.

Currently involved in programs related to topics listed
- HAZUS - Multihazard Loss Estimation
- Construction Criteria Base (CCB)
- Whole Building Design Guide (WBDG)
- Total Building Commissioning
- Facility Information Council
- U.S. National CAD Standard
- International Alliance for Interoperability (IAI)
- Indoor Environmental Quality
- Facility Maintenance & Operations Committee (FMOC)
- NIST R&D for the Safety of Threatened Buildings Program
- Building Environment and Thermal Envelope Council (BETEC)
- Asbestos Guidance
- U.S. Courts Design Guide
- Lead-Based Paint Programs & Publications
- Building Seismic Safety Programs
- Multihazard Mitigation Council (MMC)
- National Clearinghouse for Educational Facilities
- Envelope Design Guide
- GSA Building Performance and Customer Satisfaction
- GSA Moisture Research
- VA Security Assessments
- National Construction Goals
- Construction Metrication Council
ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUARTERED ORGANIZATIONS

IFMA
International Facility Management Assoc.
1 E. Greenway Plaza, Suite 1100
Houston, TX 77046-0194
Tel. 713-623-4362
http://www.ifma.org

IFMA European Bureau:
287 Avenue Louise, 2nd Floor
BE-1050 Brussels, Belgium
Tel. +32 2 645 2672

David Brady, President and Chief Executive Officer

Board of Directors 2003-2004
Chairman: Sheila M. Sheridan, Harvard University
M. (Matt) Dawson, Ernst & Young LLP
Teena G. Shouse, Sprint
G. Philip Booker, FM Solutions Inc.
Gary P. Broersma, Covance
Alana F. Dunoff, AFD Facility Planning
Richard F. Fanelli, Fanelli McClain Design Studios
John McGee, EMCOR Facilities Services
Francine Schumacher-Jaggi, Hoffmann-La Roche
Arvid Stonkus, CFM Communications Inc.
M.A. (Peggy) Williams, Battelle, Pacific Northwest National Laboratory

Contact: Cylette Willis & Shari Epstein
OSCRE Contact: Andy Fuhrman
OSCRE Status:
☑ Member ☐ MOU ☑ Discussion
☐ Endorsed ☐ Roadmap

- **Organization Type:** Business Organization
- **Established in:** 1980
- **Membership:** +17,300 throughout 55 countries, 127 chapters, 15 councils
- **Not-for-profit, incorporated association.**
- **Globally, IFMA spots trends, conducts research, provides educational programs, and assists corporate and organizational facility managers in developing strategies to manage human, facility and real estate resources.**
- **Combined annual purchasing power of IFMA’s North American members is $81 billion.**
- **Offers Certified Facility Manager (CFM) certification**
- **IFMA Councils should be considered to help develop industry specific data definitions:**
  - Airport Facilities
  - Banking Institutions & Credit Unions Council
  - Call Centers
  - Corporate Headquarters
  - Corporate Real Estate
  - Environmental Health & Safety
  - FM Consultants
  - Health Care
  - Information Technology
  - Legal Industry
  - Manufacturing Council
  - Museums/Cultural Institutions
  - Public Sector Facilities
  - Research & Development Facilities
  - Utilities
- **Developed ASTM E1836-96 Standards Classification for Building Area Measurement**
- **Research Reports**
  - Profiles ’03
  - Project Management Benchmarks, Research Report #23
  - Impact of E-Commerce on Facility Management Practices
  - Views from the Top. Executives Evaluate the FM Function
  - The Changing Office Environment
  - Outlook on Outsourcing - Research Report #20
  - Profiles ’98: Research Report #19
  - Facility Management Practices - Research Report #16
  - Violence in the Workplace - Research Report #15
  - Operations and Maintenance Benchmarks Report
  - European Benchmarks Report
  - Designing the Facility Management Organization
ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUARTERED ORGANIZATIONS

BOMA
Building Owners & Managers Association
1201 New York Avenue, NW Suite 300
Washington, DC 20005
202-408-2662
http://www.boma.org

President and COO
Henry Chamberlain

Contact: Dave Hewitt
OSCRE Contact: David Clute
OSCRE Status:
□ Member  □ MOU  □ Discussion
□ Endorsed  ✔ Roadmap

- Organization Type: Business Organization
- Founded in 1907
- BOMA International: <100 North American, 9 overseas affiliates in Australia, Brazil, Finland, Indonesia, Japan, Korea, the Philippines and South Africa.
- North American membership: combined total +9 billion square feet of downtown and suburban commercial properties and facilities. Represents more than 80 percent of the prime office space in North America.
- More than 80 percent of individual members have annual operating budgets exceeding $1 million, while more than 75 percent of individual members are responsible for multiple buildings.
- Monitors and lobbies pertinent legislative, regulatory and codes/standards issues, including electricity deregulation, capital gains tax relief, telecommunications, indoor air quality, private property rights, risk assessment, and codes and standards.
- Developed ANSI/BOMA Z65.1 Standard Method for Measuring Floor Area in Office Buildings
- Developed The Experience Exchange Report, a compilation of income and expense data for office buildings across North America
- Information source for office building development, leasing, building operating costs, energy consumption patterns, local and national building codes, legislation, occupancy statistics and technological developments.
- Focused on actively and responsibly representing and promoting the interests of the commercial real estate industry through effective leadership and advocacy, through the collection, analysis and dissemination of information, and through professional development.
- The following is a list of BOMA International Issues in relation to committees
  - Accounting
  - ADA
  - Air Quality
  - Benchmarks
  - Construction
  - Energy
  - Facility Management
  - Governance
  - Investment
  - Leasing
  - Medical Office Buildings
  - Personnel
  - Property Management
  - Refrigerants
  - Safety & Emergency Planning
  - Standards
  - Technology
ALLIANCE ORGANIZATION SYNOPSIS: US HEADQUATERED ORGANIZATIONS

AIA
The American Institute of Architects
1735 New York Ave., NW
Washington, DC 20006-5292
(202)626-7300
http://www.aia.org

Eugene C. Hopkins, President

Contact: Robin Ellerthorpe
OSCRE Contact: A. Fuhrman, D. Clute
OSCRE Status: □ Member □ MOU □ Discussion
□ Endorsed □ Roadmap

AIA Knowledge Communities
Building Performance (BP)
Building Science (BSci)
Construction Management (CM)
Corporate Architecture (CA)
Design Excellence (COD)
Design for Aging (DAC)
Educator/Practitioner Network (EPN)
Design-Build (DB)
Diversity
Environment (COTE)
Facility Management (FM)
Healthcare Architecture (AAH)
Historic Preservation (HRC)
Housing & Residential Architecture (HSG)
Interior Architecture (INT)
International Practice (INTL)
Justice Architecture (CAJ)
Livable Communities
National Associates Committee (NAC)
Practice Management (PM)
Public Architecture (PA)
Regional and Urban Design (RUOC)
Religious Architecture (IFRAA)
Risk Management
Schools and Educational Institutions (CAE)
Security
Small Projects Forum (SPF)
Sustainable Architecture (COTE)
Technology & Architectural Practice (TAP)

- **Organization Type: Business Organization**
- Architects licensed in the U.S. at 91,000
- All 50 states require an individual license to be called an architect
- Each state establishes its own professional standards for architect licenses, and architecture registration boards in all 50 states, the District of Columbia, and four U.S. territories.
- 72,000 members of the AIA
- 80% are licensed architects
- In 2002, the 16,500 architecture firms owned by AIA members grossed billings of $25.5 billion, and architecture firm-designed buildings totaled $400 billion in construction contract value, a figure that accounts for about 4% of the total output of the U.S. Economy.
- Nationally, architects' revenue can be linked to project type as follows:
  - 66% is new construction
  - 34% is rehabilitation/renovation projects
- Architecture firms employ approximately 190,000 people in the U.S. The employees at architecture firms break down according to these percentages.
  - 35% of employees are licensed architects
  - 10% of employees are intern architects
  - 12% of employees are non-registered architecture designers
  - 4% of employees are architecture students
  - 15% of employees are other design professionals
  - 18% of employees are technical and non-technical staff
- Sole practitioners make up almost a third of firms
- About two thirds of firms have 2 to 49 employees
- Firms with 50 to 99 employees make up 2% of firms, and 2% of firms have 100 or more employees
- Firms with +100 employees account for almost half of the profession's total billings
- Sole practitioners account for 2% of total billings
- 24% are from business, industrial and commercial companies
- 26% are from state or local government
- 14% are from developers and construction companies
- 16% are from nonprofit institutions
- 11% are from private individuals
- 5% are from the federal government
- 3% are from other architects, engineers, and design professionals
GSA

U.S. General Services Administration
1800 F Street, NW
Washington, DC 20405

Stephen Perry, GSA Administrator

Contact: Ms. Kay L. McNew
OSCRE Contact: Fuhrman, Clute, Perske
OSCRE Status:

- Member
- MOU
- Discussion
- Endorsed

- Roadmap

- GSA supports federal employees wherever they work–in an office building, a warehouse, a national forest, or a government car.
- GSA provides workspace, security, furniture, equipment, supplies, tools, computers, and telephones. GSA also provides travel and transportation services, manage the federal motor vehicle fleet, oversees telecommuting centers and federal child care centers, preserves historic buildings, manages a fine arts program, and develops, advocates, and evaluates government-wide policy
- GSA advances a superior value for our customers by:
  - Providing Business Guidance, Direction, and Strategies;
  - Developing Our Human Capital;
  - Measuring and Analyzing Business Performance; and,
  - Identifying Opportunities for Improvement.

Organization Type: Government Agency
The GSA organization consists of:
- Federal Supply Service
- Federal Technology Service
- Public Buildings Service
- Office of Government-wide Policy
- Various Staff Offices, including the Office of Small Business Utilization, the Office of Citizen Services and Communications, and the Office of Civil Rights.
- 11 Regional Offices extend GSA’s outreach to federal customers nationwide.
- Approximately 13,000 employees
- GSA support can include office space, equipment, supplies, telecommunications, and information technology.
- Pays a key role in developing and implementing policies that affect many government agencies.
- PBS: The vision is to be the best real estate organization in the world.

Office of the PBS Chief Information Officer
The Office of the Chief Information Officer (CIO) is the principal advisor to the GSA community on all information technology issues to bridge technology to the business strategies.

The CIO envisions, plans, budgets, designs, develops, and deploys business application software and technology. The Office provides internal PBS consulting, corporate application systems development, integration, and maintenance, and infrastructure support and web support. The Office also develops and promotes information standards and security.

Office of the Chief Architect
Architectural, engineering and construction services are coordinated nationwide for Public GSA in Washington, DC through the Office of Chief Architect (OCA). The OCA provides national leadership and guidance and is responsible for the Design and Construction Excellence programs, technical standards, security, research, accessibility, seismic programs, art in architecture, urban development, and historic preservation. In addition, the OCA handles inter-agency relations and national professional organization liaisons.

The Federal Supply Service (FSS) serves the federal community offering business, administrative, and mission solutions, and provides a source for virtually every commercial product or service an agency might need. With a business volume topping $25 billion, FSS offers more services than any commercial enterprise in the world. FSS also brings hundreds of thousands of federal customers together with more than 9,000 contractors.

The Federal Technology Service (FTS) provides Information Technology solutions that deliver the best value and innovation to GSA federal customers worldwide.
Office of Portfolio Management
- The Office of Portfolio Management is responsible for maximizing the value of GSA's portfolio of owned and leased assets by developing national strategies and providing leadership and guidance to the GSA regions.
- The Office develops and communicates national capital investment strategies and criteria; and promotes the optimal investment decisions for acquisition, construction, renovation, leasing and disposition activities for GSA's portfolio of buildings.

Office of Property Disposal
- The Office of Property Disposal serves as the government's real estate agent by providing a variety of real estate and asset management services to Federal agencies both with and without independent disposal authority.
- The Office is responsible for ensuring that government real and related personal property is fully and optimally utilized. The Office also serves as advisors and consultants on diverse and complex disposal actions, e.g. military bases and air rights, as well as on issues impacting utilization and disposal to stakeholders and interested parties such as Congress, Federal agencies, State and local governments, organizations, and the general public.

Office of Realty Services
- The Office of Realty Services will provide leadership, guidance, and direction for the PBS leasing program, which encompasses over 6000 leased buildings around the country.

expertise in areas such as human resources, procurement, enterprise architecture, and information management, FTS provides a total package, including procurement, project, and financial management support.

The Public Buildings Service (PBS) has a total inventory of 330 million square feet of workspace for a million federal employees in 2,000 American communities. PBS preserves and maintains more than 400 historic properties, leases space to GSA's federal customer agencies, and administers an internationally recognized Design and Construction Excellence program. This program allows GSA to hire top private-sector architects, construction managers, and engineers to design and build award-winning courthouses, border stations, federal office buildings, laboratories, and data processing centers. The inventory includes monumental facilities such as the Ronald Reagan Building and International Trade Center. GSA has also embarked upon the most ambitious courthouse construction program since the 1930’s, building or renovating court facilities in 160 locations.

The Office of Government-wide Policy (OGP) consolidates all of GSA's government-wide policy-making activities within one central office. These include the federal government's strategies to acquire $200 billion a year in goods and services, the $8 billion a year spent on government travel, and the tens of billions of dollars spent each year on internal administrative management systems. OGP works with other agencies to re-engineer the traditional policy development model to emphasize collaborative development.

GSA acts as a catalyst for nearly $66 billion in federal spending --more than one-fourth of the government's total procurement dollars. The agency also influences the management of federal assets valued at nearly $500 billion. These assets include more than 8,300 government-owned or leased buildings, an interagency fleet of 170,000 vehicles, technology programs and products ranging from laptop computers to systems that cost over $100 million, and an expert workforce of just over 13,000 associates.

In the 21st Century, GSA will focus increasingly on adding value through new, efficient, and effective ways for federal employees to do their work. GSA is committed to building on a strong record of accomplishment and using its strengths and expertise to help create a citizen-centric, results-oriented government that is even more productive and responsible to all Americans.
The Governance Committee will be composed as follows: (See list of subscribing companies)
- Lenders/Mortgage Brokers
- Servicing Technology Companies
- Government Sponsored Enterprises (GSE's)
- Origination Technology Companies
- Mortgage Insurance Company
- Credit Company
- Technology Vendors
- Service Providers

- Organization Type: Standards Development Organization
- Established by the Mortgage Bankers Association (MBA) to coordinate the development and maintenance of Internet based Extensible Markup Language (XML) real estate finance specifications.
- Utilizes an open and democratic vendor-neutral approach to the development and maintenance of a single real estate finance XML DTD transaction repository.
- MISMO has published specifications that support mortgage insurance application, mortgage insurance loan boarding, secondary, bulk pricing, real estate services, credit reporting and underwriting process areas. The specifications are freely available for industry implementation via the MISMO website.
- MISMO has identified the following deliverables, which will enable the mortgage industry to share data among trading partners.
  - An XML architecture that encompasses data origination, secondary market and servicing data.
  - A data dictionary to provide business definitions and corresponding architecture data element tag names.
  - A data model to serve as a reference tool for the development of XML DTDs by illustrating the relationship between data elements in the logical data dictionary. The data model is not an XML implementation of the MISMO specification.
  - MISMO works in an interactive community utilizing the www.mismo.org website, electronic balloting, listservs, conference calls, three face-to-face meetings per year and periodic interim meetings.
  - A Governance Committee, elected from a cross section of the industry, provides oversight for MISMO's administration and policy development. Through an open and democratic process, MISMO delivers a common format for the electronic transfer of mortgage industry data. With the MBA's support and the subscriber company participation, MISMO is the premiere standards development body for the real estate finance industry.
MISMO Subscriber Companies
(As of March 31, 2004)

3t Systems
a la mode, inc.
ABN AMRO Mortgage Group
ACIS
Adveitis, Inc.
American Foreclosure Network
American Land Title Association
AmPro Mortgage Corporation
AP3 Solutions
Appraisal Institute
Appraisal Trac/Dattar Systems, Inc.
ARC Systems
Associated Software Consultants
Atone Software
Attorneys' Title Insurance Fund
Barrett Burke Wilson Castle Daffin & Frappier
BCE Emergis
Bradford Technologies
BridgeSpan, Inc.
Calyx Software
Capital Stream
CH Mortgage
Chase Credit Systems
Chase Manhattan Mortgage Corporation
CitMortgage
Cogent Road, Inc./Funding Suite
Commerce Velocity, Inc.
Connecticut Attorneys Title Insurance Company
Countrywide Home Loans
Data-Vision, Inc.
Decade Systems
Delta Funding

Desert Document Services
DEXMA, Inc.
Document Processing Systems, Inc.
Document Systems Inc./DocMagic
DocuTech, Inc.
Dorado Corporation
Downey Savings and Loan
Doxentric LLC
DST Technologies, Inc.
Dynatek
Elite Systems, Inc.
eLynx, Ltd.
Encomia, Inc.
Entyre Closing Solutions
Equifax Mortgage Services
Factual Data Corporation
Fannie Mae
FICS
Fidelity Information Services
Fidelity National Financial, Inc.
FileNet
First American Corporation
First Franklin Financial Corporation
First Horizon Home Loan
FISERV
Flagstar Bank
FNC, Inc.
Freddie Mac
Gallagher Financial Systems
GE Capital Mortgage Insurance
GHR Systems
GMAC Residential Funding
GMAC Residential Mortgage

Greatland Corporation
Greenpoint Mortgage Funding
Guardian Mortgage Documents
Hyland Software
IBM
iDatix
Imagine Solutions, L.P.
Indymac Bank, F.S.B.
International Document Services (IDS)
INFO1
Informative Research
Irwin Mortgage Corporation
LandAmerica Financial Group, Inc.
LOGS Financial Services
MERS, Inc.
MGIC Investment Corp
MicroGeneral Corporation
Mortgage Banking Systems
Mortgage Systems International
MortgageFlex Systems
MRG Document Technologies
National Notary Association
National Tax Search, LLC
Net Director
Next Online Mortgage Technologies
NISYS Inc.
NorthMarq Capital, Inc.
Old Republic Title
Online Documents, Inc.
Option One
PaperClip Software
Peirson Patterson, LLP
PerCentage Corporation
PMI Mortgage Insurance Co.

Princeton Financial Systems
Principal Residential Mortgage
Quicken Loans
Radian Guaranty, Inc.
RBMG, Inc
RDA Corporation
Realty Data Corporation
Reilly Mortgage Group, Inc.
Richmond-Monroe Group
RMIC
safedocs
Schwartz & Associates
Silanis Technology
SouthStar Funding
Standard & Poor's
Stewart Information Services Corporation
SunTrust Mortgage
Swiftview Inc.
Swingtide, Inc.
The Credit Network
The Performance Group
Transamrica Real Estate Information Services
Triad Guaranty Insurance
United General Title Insurance Company
United Guaranty Corporation
US Foreclosure Network (USFN)
VMP Mortgage Solutions
Wachovia Corp.
Washington Mutual
Waterfield Mortgage Company, Inc.
Wellfound Technology, Inc.
Wells Fargo Home Mortgage
ZC Sterling Real Estate Tax Solutions
## 5.6 International Headquartered Organizations

### Land Registry
32 Lincoln's Inn Fields  
London  
WC2A 3PH  
DX No: 1098 London / Chancery Lane  
TEL: 020 7917 8888  
www.landregistry.gov.uk

Peter Collis - Chief Land Registrar and Chief Executive

**Contact:** Steve Kelway  
**OSCRE Contact:** Chris Lees (PISCES)  
**OSCRE Status:**
- [ ] Member  
- [x] MOU  
- [ ] Discussion  
- [ ] Endorsed  
- [ ] Roadmap

- **Organization Type:** Government Agency
- **Main purpose:** To register title to land in England and Wales and to record dealings (for example, sales and mortgages) with registered land. The Registers of Scotland deal with land in Scotland.
- **Land Registry was established under the Land Registry Act 1862 (repealed by the Land Registration Act 2002).**
- **Largest property database in Europe**
- **Underpins the economy by guaranteeing some £2.5 trillion worth of property.**
- **Approximately £1 million worth of property is processed every minute.**
- **Land Registry Direct offers instant access to over 19 million registers of title plus the ability to view images of title plans using an office PC and normal web browser technology.**
- **Operates 24 land registry offices located throughout England and Wales; a London-based Head Office; the Land Charges and Agricultural Credits Departments and an Information Systems Directorate located in Plymouth.**
- **The Registry employs about 8,000 staff (expressed as full time equivalents).**
- **The main statutory function of Land Registry is to keep a register of title to freehold and leasehold land throughout England and Wales. On behalf of the Crown, it guarantees title to registered estates and interests in land.**
- **In addition to the registration of title, Land Registry also has responsibility for the functions of the Land Charges and the Agricultural Credits Departments.**
- **Land Registry’s Mission is “to provide the world’s best service for guaranteeing ownership of land and facilitating property transactions”.**
- **In pursuit of this Mission, Land Registry’s principal aims are:**
  - To maintain and develop a stable and effective land registration system throughout England and Wales as the cornerstone for the creation and free movement of interests in land;
  - On behalf of the Crown, to guarantee title to registered estates and interests in land for the whole of England and Wales;
  - To provide ready access to up to date and guaranteed land information so enabling confident dealings in property and security of title;
  - To provide a Land Charges and Agricultural Credits service.
  - Promote and introduce progressively, new, electronic transactions in land and property from 2005 (e-conveyancing).
  - To make all key Land Registry services available online by 2005 (e-business).
  - To create a Register with comprehensive content and national coverage by 2012.
Investment Property Forum
3 Cadogan Gate
London
SW1X 0AS
UK
Tel. +44 (0) 20 7334 3799
http://www.ipf.org.uk
Alastair Goobey, President
Amanda Keane, Executive Director
Tel: 020 7334 3885
akeane@ipf.org.uk

Contact:
OSCRE Contact: Chris Lees (PISCES)
OSCRE Status:
- [ ] Member
- [ ] MOU
- [ ] Discussion
- [x] Endorsed
- [ ] Roadmap

**Organization Type: Business Organization**
- Established in 1988, the Investment Property Forum (IPF) is now recognized as one of the leading specialist property industry bodies in the UK.
- Network of senior professionals all active in the property investment market.
- Over 1500 members: investment agents, fund managers, bankers, lawyers, researchers, academics, actuaries and other related professionals.
- Operates in London, Scotland, the Midlands and the North West.
- The IPF’s mission is to improve the awareness, understanding and efficiency of property as an investment for members and others in the wider business community by:
  - Undertaking research and special projects;
  - Providing education; and
  - Encouraging discussion and debate.

Its focus is to:
- Improve the awareness of the investment characteristics of property;
- Promote innovation and best practice in the property investment market;
- Support initiatives that enhance liquidity and efficiency of property as an investment class; and offer the membership quality services.

**Membership Breakdown by Organization type:**
- Fund Manager 25%
- Agent 23%
- Lawyer 16%
- Developer 9%
- Financier 4%
- Accountant 4%
- Researcher 4%
- Analyst 2%
- Actuary 2%
- Other 9%

**Partners and Sponsors**
- RICS Valuation and Commercial Property Faculties
- PriceWaterhouseCoopers
- Urban Land Institute (ULI)
- Cambridge International Land Institute
- The Society of Property Researchers (SPR)
- Investment Property Databank (IPD)
British Property Federation
7th Floor
1 Warwick Row
London SW1E 5ER
Tel: 020 7828 0111
http://www.bpf.propertymall.com

Liz Peace, Chief Executive
Tel: 020 7802 0103
lpeace@bpf.org.uk

David Hunter, President
Aberdeen Property Investors UK Ltd.

Contact: Liz Peace
OSCRE Contact: Chris Lees (PISCES)

OSCRE Status:
- Member
- MOU
- Discussion
- Endorsed
- Roadmap

Organization Type: Trade Association
The Policy Committee is assisted by seven principal committees covering accounting, construction, planning, residential investors and residential landlords, taxation and VAT, supported by over 140 individuals from member companies. Federation includes representation from institutions, asset managers and investment banks, as well as all those organisations who support the property industry such as agents, lawyers, accountants and consultants/project managers. Federation includes a growing residential element of both commercial investors and individual landlords. Recently overhauled its strategy and put in place a new three-year programme framed around an energetic and effective lobbying operation. Key feature of the strategy is to persuade the Government that the property industry is a vital component of a successful economy and also an important route by which the Government can achieve the delivery of many of its cherished policies, particularly urban regeneration, social inclusion, entrepreneurial success, savings and pensions reform and environmental improvement.

BPF Membership
Property Companies
Development
Investment
Ownership
Residential
Fund Managers
Investment Banks
Institutions
Insurance Funds
Pension Funds
Multiple Retailers
Major Corporates with important property interests
Housing Associations
Accountants
Architects
Engineers
Planners
Solicitors
Surveyors

Main Roles
Lobbying
Member Services

Principal Areas of Policy
Commercial
Construction
Finance
Planning and Environment
Residential
Legal Software Suppliers Association
No.1 Tyler Street,
Stratford-upon-Avon,
Warwicks CV37 6TY
Tel. 01789 296096
http://www.lssa.co.uk

Alan Richardson, Chairman
Neil Ewin, LSSA XML Chair

Contact: Neil Ewin
OSCRE Contact: Catherine Williams (PISCES)
OSCRE Status:
☑ Member ☐ MOU ☐ Discussion
☐ Endorsed ☐ Roadmap

- **Organization Type: Business Association & XML Standards Development**
- LSSA is the UK industry body for legal systems developers and vendors.
- Representing most of the leading UK suppliers, it aims to both set and maintain professional standards within the industry and manage areas of mutual interest such as the formulation of XML standards.
- Published a REVISED proposal for an XML Schema for the legal profession.  
- The original White Paper document (and the LSSA schema it describes) has been reviewed and improved over the past year - especially in light of the PISCES and LEDES XML standards, as well as Government XML guidelines.
- LSSA XML Working Party chairman Neil Ewin stated previously: "Writing a single XML schema to cover the vast range of possible legal transactions is daunting, if indeed possible. The approach that has therefore been adopted is to develop a collection of sub-schemas describing common 'data components' likely to appear in any such transaction (eg party, time posting, financial posting).
- "With these data components agreed, they can be combined to form schema describing particular types of legal transaction. Example schemas can be case type specific, for example between Insurance Company and panel Solicitor, or as a generic link between case and practice management systems."
Pwgsc
Public Works Government Services
Canada
B416 RPS NCOE PFM
2250 Riverside Dr Ottawa, ON K1A 0M2
http://www.pwgsc.gc.ca

Stephen Owen, Minister of Public Works and Government Services

Contact: Ted Eedson
OSCRE Contact: Andy Fuhrman
OSCRE Status:
- Member
- MOU
- Discussion
- Endorsed
- Roadmap

Organization Type: Government Agency
- Currently collaborating with OSCRE Planning and Strategy Working Group on analysis of existing industry Area Measurement standards to develop single industry standard.
- Supports key priorities of government in collaboration with nearly 140 Government of Canada departments, agencies, and Crown corporations.
- 14,000 employees
- Delivers innovative service and solutions through offices across Canada, as well as in the United States and Europe, in the following areas:
  - Compensation
  - Telecommunications and Informatics
  - Industrial Security
  - Standards
  - Shared Human Resources and Best Management Practices
  - Traffic Management
  - Procurement
  - Disposal of Crown Assets
  - Real Property
  - Seized Property
  - Receiver General of Canada
  - Translation
  - Consulting and Audit

Digital Simulation Laboratory (DSL)
- Initially set up to explore the techniques of visualization of buildings and landscapes.
- Long term vision, merit and value of digital technology to all stakeholders in the real property community.
- Available to assist in all aspects of real property management throughout the project life cycle, as it provides integrated architectural and engineering services.
- Examples: site development, massing studies, building concepts, design layouts and finishes, lighting studies, renovations and repairs, operations, maintenance and commissioning. The DSL computer simulated architectural and engineering models facilitate the decision making processes.
- Some of the recent projects in which DSL has been involved are:
  - 3D modelling of Parliament Library renovations
  - Lighting Study on Vimy Memorial Monument in France
  - Demonstration of sustainable features in the Food Court in Place du Portage
  - Wind and snow studies in the Tunney's Pasture complex in Ottawa
  - Digital video development of DSL projects
Services provided by PWGSC

- Architectural and Engineering Services
- Canadian and International Industrial Security Directorate
- Canadian General Standards Board
- Computer Acquisition Guide
- Contracts Canada — How to do Business with the Government of Canada
- Corporate Relations Program publications
- Crown Assets Distribution Centres — Selling Surplus Crown Assets
- Defence Construction Canada
- Digital Simulation Lab
- Esquimalt Graving Dock
- Exploring Water Management
- Federal Buildings Initiative
- International Services (PWGSC Europe)
- MERX: Canada’s Electronic Tendering Service
- Online Catalogues for Training Services
- Online IPS Marketplace
- Online Translation Services (OTS)
- Parliament Hill — A Treasure to Explore
- Payments in Lieu of Taxes
- Real Estate Online
- Real Property Services for Indian and Northern Affairs Canada
- Receiver General for Canada
- Secure Applications and Key Management Services (SAKMS - GTIS PKI)
- Science, Informatics and Professional Services Sector (SIPSS)
- Superannuation Directorate
- Supply Manual
- Supply Operations Products and Services
- Temporary Help Services (THS)
- The Knowledge Institute for Government Information Professionals
- Translation Bureau Products and Services
ALLIANCE ORGANIZATION SYNOPSIS: INTERNATIONAL HEADQUARTERED ORGANIZATIONS

RICS
Royal Institution of Chartered Surveyors
12 Great George Street
Parliament Square
London SW1P 3AD
United Kingdom
+44 (0)870 333 1600
http://www.rics.org
Nick Brooke, President

Contact:
OSCRE Contact: S. Spooner, C. Lees
OSCRE Status: ✔ Member ☐ MOU ☐ Discussion
☐ Endorsed ☐ Roadmap

- **Organization Type:** Global standards and membership organizations for professionals involved in land, valuation, real estate, construction and environmental issues.
- An international membership organization and includes associated companies, National Associations, RICS Business Services and its subsidiary companies.
- 134 years of representing property professionalism
- 110,000 members across 120 countries worldwide
- 300 degree level courses approved worldwide
- 500 research and policy papers published per year
- 50 national associations, linked groups and societies
- 160 diverse ‘specialisms’ – represented across 16 ‘faculties’
- Accountable to both members and the public, RICS has four main roles:
  - To maintain the highest standards of education and training
  - To protect consumers through strict regulation of ethics and standards
  - To advise global organizations, such as governments and regional boards
  - To publish market information and research.
- The **property market plays a key role in the global economy; comprising in some countries as much as 20% of the Gross National Product.**

Launched on 1 January 2001 the 16 faculties embrace the wide range of specialisms covered by chartered surveyors. The faculties are international in their outlook and are coordinated by individual faculty boards

- Arts and Antiques
- Building Surveying
- Commercial Property
- Construction
- Facilities Management
  - building management
  - business operations
  - business re-location
  - business support
  - health and safety
  - occupiers
  - outsourcing
  - property management
  - services such as cleaning and catering
  - strategic planning and advice
  - support functions
  - utilities
- Dispute Resolution
- Environment
- Geomatics
- Management Consultancy
- Minerals and Waste Management
- Planning and Development
- Machinery and Business Assets
- Project Management
- Residential Property
- Rural
- Valuation
Council of Mortgage Lenders

3 Savile Row
London, W1S 3PB
Tel: 020 7437 0075
info@cml.org.uk
http://www.cml.org.uk

Contact: Alex Solomon
OSCRE Contact: M. Riddik, R. Dinning (PISCES)
OSCRE Status:
☐ Member    ☐ MOU    ☐ Discussion
☑ Endorsed   ☐ Roadmap

- **Org. Type: Trade Association**
- Provide services to mortgage lending institutions by helping to establish and maintain a favorable operating environment in the residential mortgage and related housing markets in the UK.
- It is the representative voice for the residential mortgage lending industry.
- Promotes good lending practices, in particular, by sponsoring the Mortgage Code.
- Central provider of economic, statistical, legal, research and other market information and analysis.
- Provides a forum for discussion of issues of collective interest amongst members and others.
- Accounts for around 98% of residential mortgage lending in the UK
- **Members (See next page)**
  - 140 members
  - 75 associate members
### Council of Mortgage Lenders Members

<table>
<thead>
<tr>
<th>Organization Name</th>
<th>Address</th>
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<tbody>
<tr>
<td>Abbey National plc</td>
<td>Dunfermline Building Society</td>
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<tr>
<td>Accord Mortgages Limited</td>
<td>Eagle Star Mortgages Limited</td>
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<td>Ahl United Bank (UK) plc</td>
<td>Earl Shilton Building Society</td>
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<td>AIB Group (UK) plc</td>
<td>Ecology Building Society, The</td>
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<td>Airdrie Savings Bank</td>
<td>Edinburgh</td>
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<tr>
<td>Allchurches Mortgage Company Ltd</td>
<td>Egg Banking plc</td>
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<td>Alliance &amp; Leicester Mortgage Loans Ltd</td>
<td>EH3 7XE</td>
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<tr>
<td>Council of Mortgage Lenders Members</td>
<td>E-Mex Home Funding</td>
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<td>Allied Irish Bank (GB)</td>
<td>First Direct Bank</td>
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<td>Amber Home Loans</td>
<td>First National Home Finance Limited</td>
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<td>Bank of Cyprus (London) Ltd</td>
<td>First Trust Bank</td>
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<td>Furness Building Society</td>
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<td>Halifax plc (HBOS Group)</td>
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<td>Hanley Economic Building Society</td>
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<td>Harpenden Building Society</td>
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<td>Hinckley &amp; Rugby Building Society</td>
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<td>Holmestead Building Society</td>
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<td>HSBC Bank plc</td>
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<td>Buckinghamshire Building Society</td>
<td>Intelligent Finance (HBOS Group)</td>
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<td>Counties Home Loan Management Ltd</td>
<td>Market Place Mortgages Ltd</td>
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<td>Darlington Mortgage Services Ltd</td>
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<td>Mortgage Business plc, The (HBOS Group)</td>
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<td>Derbyshire Home Loans</td>
<td>National Counties Building Society</td>
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<td>Direct Line Financial Services Ltd</td>
<td>Nationwide Building Society</td>
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<td>Newcastle Mortgage Corporation</td>
<td>Norwich &amp; Peterborough (LBS) Ltd</td>
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<td>North Yorkshire Mortgages Ltd</td>
<td>Nottingham Building Society</td>
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<td>Northern Bank Limited</td>
<td>Paragon Mortgages Limited</td>
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<td>Norwich &amp; Peterborough Building Society</td>
<td>Portman Building Society</td>
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<tr>
<td>Principality Building Society</td>
<td>Preferred Mortgages Limited</td>
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<tr>
<td>Principality Mortgage Corporation Ltd</td>
<td>Principality Building Society</td>
</tr>
<tr>
<td>Progressive Building Society</td>
<td>Royal Bank of Scotland plc, The</td>
</tr>
<tr>
<td>Saffron Walden Herts &amp; Essex Building Society</td>
<td>Saffron Walden Mortgage Services Ltd</td>
</tr>
<tr>
<td>Saffron Walden Mortgage Services Ltd</td>
<td>Sainsbury's Bank plc</td>
</tr>
<tr>
<td>Scottish Building Society</td>
<td>Scottish Widows Bank plc</td>
</tr>
<tr>
<td>Scottish Widows Bank plc</td>
<td>Shepshed Building Society</td>
</tr>
<tr>
<td>Skipton Building Society</td>
<td>Southern Pacific Mortgage Ltd</td>
</tr>
<tr>
<td>Stafford Railway Building Society, The</td>
<td>Standard Life Bank Limited</td>
</tr>
<tr>
<td>Stroud &amp; Swindon Building Society</td>
<td>Stroud &amp; Swindon Building Society</td>
</tr>
<tr>
<td>Swansea Building Society</td>
<td>Teachers' Building Society</td>
</tr>
<tr>
<td>Teachers' Building Society</td>
<td>The One account Ltd</td>
</tr>
<tr>
<td>The Staffordshire</td>
<td>The Woolwich</td>
</tr>
<tr>
<td>Tipton &amp; Coseley Building Society</td>
<td>UCB Home Loans Corporation Ltd</td>
</tr>
<tr>
<td>Ulster Bank</td>
<td>Universal Building Society</td>
</tr>
<tr>
<td>Vernon Building Society</td>
<td>West Bromwich Building Society</td>
</tr>
<tr>
<td>West Bromwich Mortgage Company</td>
<td>West Bromwich Mortgage Company</td>
</tr>
<tr>
<td>Yorkshire Bank</td>
<td>Yorkshire Building Society</td>
</tr>
<tr>
<td>Yorkshire Building Society</td>
<td></td>
</tr>
</tbody>
</table>
5.7 Technology Standards Development Organizations

OASIS
Organization for Advancement of Structured Information Standards
Post Office Box 455
Billerica, MA 01821
Tel. (978)667-5115
http://www.oasis-open.org

Patrick Gannon, President and CEO

OASIS Technical Committees or the technical infrastructure of OASIS, contact Karl Best, Vice President: karl.best@oasis-open.org.

Board of Directors
John Borras Office of e-Envoy, UK Cabinet
Edward Cobb BEA Systems
Colin Evans Intel Corporation
Patrick J. Gannon OASIS
Eduardo Gutentag Sun Microsystems
Frederick Hirsch Nokia
Jim Hughes Hewlett Packard
Christopher Kurt Microsoft
Jeff Mischkinsky Oracle
Laura Walker IBM

Contact:
OSCRE Contact: K. Perske, C. Williams

OSCRE Status:
✓ Member    □ MOU    ✓ Discussion
□ Endorsed   □ Roadmap

- Org. Type: Standards Development
- OASIS (Organization for the Advancement of Structured Information Standards) is a not-for-profit, global consortium that drives the development, convergence, and adoption of e-business standards. Members themselves set the OASIS technical agenda, using a lightweight, open process expressly designed to promote industry consensus and unite disparate efforts. OASIS produces worldwide standards for security, Web services, conformance, business transactions, electronic publishing, topic maps and interoperability within and between marketplaces. Founded in 1993, OASIS has more than 2,000 participants representing over 600 organizations and individual members in 100 countries.
- OASIS members have formed TCs in a number of areas including the following:
  - Horizontal and e-business framework
  - Web Services
  - Security
  - Public Sector
  - Vertical industry applications
- OASIS encourages its TCs to consider how the work they are doing relates to work being done by other organizations, and to establish liaison relationships where practical; OASIS prefers to see interoperable specifications than competing specifications.
- 93 Sponsor Organizations
- 297 Contributor Organizations
- UN/CEFACT, the United Nations Centre for Trade Facilitation and Electronic Business, and OASIS jointly sponsor ebXML, a modular suite of specifications that enable enterprises of any size and in any geographical location to conduct business over the Internet.
- Members of the OASIS Technical Advisory Board (TAB) are industry experts who provide guidance on issues related to strategy, process, interoperability, and scope of OASIS technical work.
  - Karl Best, OASIS
  - Derek Coleman, HP (Co-Chair)
  - William Cox, PhD, BEA
  - Chet Ensign, Lexis/Nexis
  - Christopher Ferris, IBM
  - Eduardo Gutentag, Sun Microsystems (OASIS Board of Directors)
  - Jackson He, Intel
  - Dr. Timothy Moses, Entrust
  - Krishna Sankar, Cisco
  - Pete Wenzel, SeeBeyond (Co-Chair)
ALLIANCE ORGANIZATION SYNOPSIS: TECHNOLOGY STANDARDS DEVELOPMENT ORGANIZATIONS

OASIS Technical Committees
Auto Repair Terminology SC
Application Vulnerability Description Language TC
Asynchronous Service Access Protocol TC
Business Transactions TC
Business-Centric Methodology TC
CGM Open Member Section
CGM Open MS Steering Committee
Content Assembly Mechanism TC
Customer Information Quality TC
Darwin Information Typing Architecture TC
Digital Signature Services TC
DocBook TC
e-Government TC
ebXML Business Process TC
ebXML Collaboration Protocol Profile and Agreement TC
ebXML Implementation, Interoperability and Conformance TC
ebXML Messaging Services TC
ebXML Registry TC
Election and Voter Services TC
Electronic Business Service Oriented Architecture TC
Electronic Procurement Standardization TC
Emergency Management TC
Entity Resolution TC
eXtensible Access Control Markup Language TC
Extensible Resource Identifier TC
Framework for Web Services Implementation TC
HumanMarkup TC
LegalXML eContracts TC
LegalXML Electronic Court Filing TC
LegalXML eNotarization TC
LegalXML Integrated Justice TC
LegalXML Legal Transcripts TC
LegalXML Legislative Documents, Citations, and Messaging TC
LegalXML Member Section
LegalXML Online Dispute Resolution TC
LegalXML Subscriber Data Handover Interface TC
Materials Markup Language TC
Open Office XML Format TC
organizational voting
PKI Member Section
Product Life Cycle Support TC
Production Planning and Scheduling TC
Provisioning Services TC
Public Key Infrastructure TC
Public Relations (PR) Group
RELAX NG TC
Rights Language TC
Security Services TC
Tax XML TC
Topic Maps Published Subjects for Geography and Languages TC
Topic Maps Published Subjects TC
Topic Maps Vocabulary for XML Standards and Technologies TC
Translation Web Services TC
UDDI Specification TC
Universal Business Language TC
User Interface Markup Language TC
Web Application Security TC
Web Services Business Process Execution Language TC
Web Services Composite Application Framework TC
Web Services Distributed Management TC
Web Services for Remote Portlets TC
Web Services Notification TC
Web Services Reliable Messaging TC
Web Services Resource Framework TC
Web Services Security TC
XML Common Biometric Format TC
XML Localisation Interchange File Format TC
XRI Data Interchange (XDI) TC
XSLT Conformance TC
ORG TYPE: An OASIS Technical Committee
UBL is an international effort to define a royalty-free library of standard electronic business documents based on XML.
The purpose of the OASIS UBL TC is to develop a standard library of XML business documents (purchase orders, invoices, etc.) by modifying an already existing library of XML schemas to incorporate the best features of other existing XML business libraries.
To develop UBL in harmony with the OASIS ebXML specifications and in light of recommendations and standards issued by ISO, IEC, ITU, UN/ECE, W3C, IETF, OASIS, and other relevant standards bodies and organizations.
UBL is intended to become an international standard for electronic commerce freely available to everyone without licensing or other fees.
To align the vocabulary and structures of UBL with the vocabulary and structures of existing XML business libraries.
Designed in an open and accountable OASIS Technical Committee with participation from a variety of industry data standards organizations
Plugs directly into existing traditional business, legal, and records management practices.
Eliminates re-keying of data in existing fax- and paper-based supply chains
Fills the "payload" slot in XML-based B2B frameworks
UBL 1.0 is explicitly an 80/20 solution
- Standardizes only the most basic (most common) business data structures
- Addresses only the basic order-to-invoice scenario
- Relies on manual extension to customize the basic schemas for particular trading relationships
The objectives at this point are
- minimize software development costs by standardizing parts that we can agree on
- To bring the small and medium-size businesses into the EDI world of machine-to-machine electronic commerce
The primary deliverables of the UBL TC in the UBL 1.0 time frame include:
A set of Naming and Design Rules for the representation of ebXML Business Information Entities (BIEs).
A UBL BIE library in the form of standard XML schema elements for common business data structures such as "party," "address," and "line item."
A set of basic business documents assembled from the BIE library, such as UBL Order, UBL Receipt Advice, and UBL Invoice.
A set of formatting specifications for the rendering of the basic business documents in human-readable form.
Guidelines for extending UBL within specific industry contexts.

Universal Business Language
Post Office Box 455
Billerica, MA 01821
Tel. (978)667-5115

http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=ubl

Chairs:
Jon Bosak jon.bosak@sun.com
Mark Crawford mcrawford@lmi.org

Contact: Jon Bosak, Sue Probert,
OSCRE Contact:
OSCRE Status:
- Member  MOU  Discussion
- Endorsed  Roadmap

Organizations listed are OASIS Sponsor-level members who have representatives serving on this TC.
- CommerceOne
- Global Exchange Services
- Oracle
- SAP
- SeeBeyond Technology Corporation
- Sterling Commerce
- Sun Microsystems
- The Boeing Company
**ORG Type: An OASIS Technical Committee**

- ebXML (Electronic Business using eXtensible Markup Language), is a modular suite of specifications that enables enterprises of any size and in any geographical location to conduct business over the Internet. Using ebXML, companies now have a standard method to exchange business messages, conduct trading relationships, communicate data in common terms and define and register business processes.

- ebXML was started in 1999 as an initiative of OASIS and the United Nations/ECE agency CEFACT. The original project envisioned and delivered five layers of substantive data specification, including XML standards for:
  - Business processes
  - Core data components
  - Collaboration protocol agreements
  - Messaging
  - Registries and repositories

- Standards bodies, industry groups, vendors and users from around the world are integrating ebXML into their own implementations and products and voicing their support for ebXML.

**Standards Bodies and Industry Groups**

- eBES
- ebXML.org.tw
- e centreUK
- Korea Institute for Electronic Commerce
- Open Applications Group
- Open Travel Alliance
- RosettaNet
- Tradegate ECA

**Vendors and Users**

- Bind Systems
- Care Data Systems
- Commerce One
- Data Access Technologies
- Documentum
- Edifecs
- Fujitsu
- Future Three/Synapz IPNet Solutions
- Korea Trade Network
- PeopleSoft
- Pointgain
- SAA Consultants
- Schemantix
- Sterling Commerce
- TIE Holding NV
- Viquity
ALLIANCE ORGANIZATION SYNOPSIS: TECHNOLOGY STANDARDS DEVELOPMENT ORGANIZATIONS

Data Consortium
Mike Young
415-781-3300
MYoung@RREEF.com.
http://www.dataconsortium.org

Org. Type: Standards Development Organizations
- An organization for the creation, maintenance, and promulgation of universal communication protocols for the commercial equity real estate industry in the United States and elsewhere in the world where real estate is operated and transacted in a manner similar to the U.S.
- To enable commercial real estate-related information to be exchanged between owners, vendors, consumers, and associations more efficiently and economically.
- Collaborates with NCREIF, PREA) and NAREIM

Directors:
Phillip Evanski, The Realm
Jeffrey Fisher, Indiana University and NCREIF
David Fries, AMB Property Corporation
Richard Kozak, Management Reports International
Michael Young, RREEF

Contact:
OSCRE Contact:
OSCRE Status:
- Member
- MOU
- Discussion
- Endorsed
- Roadmap

Data Consortium Sponsors
- AEW Capital Management
- AMB Property Corporation
- Appraisal Institute
- Clarion Partners
- Cornerstone Real Estate Advisors, Inc.
- Equity Office
- Heitman
- Invesco Realty Advisors
- JD Edwards
- JP Morgan Fleming
- JP Morgan Partners
- KB Home
- LaSalle Investment Management
- Lend Lease R.E. Investments
- Management Reports Inc. (MRI)
- NCREIF
- Pension Real Estate Association (PREA)
- PMRealty Advisors
- Principal Financial Group
- Prudential Real Estate Investors
- Realm
- RREEF - Real Estate Investment Managers
- SSR Realty
- TA Associates Realty
- Yardi Systems
Members Organizations by Working Group

ARCHITECTURE GROUP
- RealWebFunds
- Goldman Sachs
- Numerata
- PricewaterhouseCoopers
- Hypergrobe Engineering
- PricewaterhouseCoopers
- Workspeed
- PropertyFirst.com
- manageStar.com

ACCOUNTING/PERFORMANCE REPORTING
- Pension Consulting Alliance
- Frank Russell Company
- National Association of R/E Investment Trusts
- State Street Bank
- The Townsend Group
- LaSalle Investment Management
- AEW Capital Management
- AMB Property Corporation

DATA AGGREGATION
- Grubb & Ellis Company
- RealHound.com
- REIS Inc.
- AEW Capital Management
- Cushman & Wakefield
- Torto Wheaton Research/ CB Richard Ellis
- TradeDimensions
- Economy.com

LISTING/TRANSACTION PROCESSING
- Realogic Analytics
- LoopNet
- Numerata
- DealMover.com
- WorkplaceIQ.com
- Colliers International
- AMB Property Corporation
- PropertyRover
- RealConnected.com
- Cushman & Wakefield
- PropertyRover
- PropertyFirst.com
- PricewaterhouseCoopers

MULTITASKING/NOT YET CATEGORIZED
- National Association of Realtors (NAR)
- RealEstate.com
- PlanData Systems
- Canadian Institute of Public and Private Real Estate Companies (CIPPREC)
- Space Analytics
- First Union
- Millennia Group
- Cisco Systems
- The Realm
- The Irvine Company
- Lend Lease R.E. Investments
- iLaunch
- LaSalle Investment Management
- Redbricks.com
- The Realm
- RREEF
- Yardi Systems
- UBS Realty Investors
- Institutional Real Estate
- Indiana University / NCREIF
- Accrue Technologies
- RESolve Technology
- AMB Property
- Richard_Greenlee@hotmail.com
- National Association of Real Estate Investment Managers (NAREIM)
- Cushman & Wakefield
- PropertyLine.com
- Pension Real Estate Association
- WorkplaceIQ.com
- LJ Melody
- JD Edwards
- Trammell Crow
- NAI Capital Commercial
- Archon Group
- JD Edwards
- SNL Securities
- TA Associates Realty
- MyContracts.com
- SSR Realty
- Triple Five Group of Companies
- Yardi Systems
- PMRealty Advisors
- The Warton School
- PropertyLine.com
- SpringStreet.com
- Williams Enterprises
- The Realm
- propidex corporation
- RealWorks
- Yardi Systems
- RREEF
- Corrigo Incorporated
- Ceterpoint Properties
Open Applications Group
PO Box 4897
Marietta, Georgia 30061
Phone: 770 943 8364
http://www.openapplications.org/

David Connelly - President and CEO

Contact:

OSCRE Contact:

OSCRE Status:

- Member
- MOU
- Discussion

- Endorsed
- Roadmap

Content Working Group Projects

- Core Components
- CRM XML
- Internet Parts Order Joint Project with AAIA
- Inventory Visibility with AIAG
- Agilent Technologies
- Ascential Software
- Automotive Aftermarket Industry Association (AAIA)
- Automotive Industry Action Group (AIAG)
- CarParts Technologies, Inc.
- Contivo
- DaimlerChrysler
- Dana Corporation
- Drake Certivo
- Delphion Research
- Engelhard Corporation
- Ford Motor Company
- Frictionless Commerce, Inc.

- Location Services
- Logistics XML
- Material Replenishment with AIAG
- Payment Harmonization
- ICXML
- General Motors
- HMS Software
- IBM
- Intuit
- Invensys
- iWay
- Johnson Controls Inc.
- Lockheed Martin
- Lucent Technologies
- Menlo Worldwide Logistics
- mro Software
- National Automobile Dealers Association (NADA)
- National Institute of Standards and Technology (NIST)

- Semantic Integration
- STAR
- VisionML
- Web Services
- NEC Corporation
- Object Management Group
- Oracle Corporation
- Organization for Advancement of Structured Information Standards (OASIS)
- PeopleSoft, Inc.
- Scala
- Sterling Commerce
- Sun Microsystems
- Tibco
- Toyota
- Transentric
- US Air Force
- Vitria Technology
- webMethods
International Alliance for Interoperability (IAI)

Chairman: Norbert Young, Jr., President - McGraw-Hill
Vice Chairman: Stephen Selkowitz, Dept. Head - Lawrence Berkeley National Labs
Treasurer: Robert Webb, Executive VP - Bovis Lend Lease Corporation
Past Chair: Patrick MacLeamy, CEO - HOK
Executive Director: Earle Kennett, VP - NIBS

Contact: Norbert Young, Stephen Selkowitz
OSCRE Contact: Andy Fuhrman
OSCRE Status:

- Member
- MOU
- Discussion
- Endorsed
- Roadmap

- The aecXML Domain committee has been reestablished. John Marshall, Chairman.
- aecXML is an XML-based language used to represent information in the Architecture, Engineering and Construction (AEC) industry. This information may be resources such as projects, documents, materials, parts, organizations, professionals or activities such as proposals, design, estimating, scheduling and construction. It is intended to be used as an XML namespace to facilitate information exchange of AEC data on the Internet.

- To develop a standard universal framework to enable and encourage information sharing and interoperability throughout all phases of the whole building life cycle.
- The Alliance is a global standards-setting organization representing widely diverse constituencies—from architects and engineers, to research scientists, to commercial building owners and contractors, to government officials and academia, to facility managers, and to software companies and building product manufacturers. Alliance members are committed to promoting effective means of exchanging information among all software platforms and applications serving the AEC+FM community by adopting a single Building Information Model (BIM).
- This mission is accomplished by defining, promoting and publishing specifications for Industry Foundation Classes (IFC) as BIM and as a basis for AEC project information sharing through the project life cycle, globally, across disciplines and technical applications. IFC BIM are published in the EXPRESS language for software development and in eXtensible Markup Language (ifcXML) for eCommerce and Internet purposes.
- aecXML derived from the IFC BIM is also promoted and developers are encouraged to extend the IFC BIM through collaboration with IAI.
- 65 IAI Member Organizations Listed
<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>ACTIVITY DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>aecXML Domain - Steering Committee</strong></td>
<td>The aecXML Domain Committee serves as the coordinating body for the various business case activities, including setting approval and review processes. aecXML is a framework for using eXtensible Markup Language standard for information transfer in the AEC+FM arena. It is intended to be a transport mechanism for seamless flow of text-based information on the web regardless of applications or platforms. <a href="#">More</a></td>
</tr>
<tr>
<td><strong>aecXML Domain - Technical Committee</strong></td>
<td>Technical experts in the development of and structuring aecXML schemas to support industry business cases. Establish IAI guidelines for acceptance and adoption of aecXML standards, and interaction with related industry standards. Support vendor implementation of aecXML. <a href="#">More</a></td>
</tr>
<tr>
<td><strong>Architecture Domain</strong></td>
<td>Create and validate IFCs to model architectural and interior design elements and processes. Goal to have IFC-facilitated information exchange to allow for multidiscipline decision-making across the life of a building project. Projects Completed: Bubble Diagramming for Space Layout Wall Layout Door and Window Insertion into Walls Scheduling of Doors and Windows Architectural Model Extensions (AR-1) Ongoing Projects: &quot;Early Design&quot; and &quot;Ceiling Plenum Services Coordination.&quot; <a href="#">More</a></td>
</tr>
<tr>
<td><strong>Building Services Domain</strong></td>
<td>Develops IFCs focusing on building services including mechanical, electrical and security engineering. The IFCs are designed to exchange data among existing and emerging software applications to facilitate multiple-discipline decisions across the life-cycle of a building project. Projects Completed HVAC: Loads Calculations (BS and BS-4) HVAC Equipment and Systems (BSand BS-1) Performance Metrics (BS-6) Ongoing Projects HVAC Performance Validation (BS-7) HVAC Modeling and Simulation (BS-8). <a href="#">More</a></td>
</tr>
<tr>
<td><strong>Codes and Standards Domain</strong></td>
<td>IFC development to support code compliance applications for architects, engineers, and others in the AEC+FM community. IFC development will enable code enforcement officials to electronically check and process building permits. Projects Completed Code Checking - Energy Codes (CS-1) Code Compliance - Disabled Access and Escape Routes (CS-2) Ongoing Projects Performance-Based Energy Code Compliance Checking (CS-3) Accessibility and Fire Safety Code Compliance Checking (CS-4) <a href="#">More</a></td>
</tr>
<tr>
<td><strong>Libraries Domain</strong></td>
<td>Produce and verify IFCs which link various submodels within the IFC model to access various sources of information and draw that data into the model for manipulation and application. Ongoing Projects: Joint project with OCCS to develop the Omniclass Construction Classification System (see <a href="http://www.occsnet.org">www.occsnet.org</a>). <a href="#">More</a></td>
</tr>
</tbody>
</table>
ALLIANCE ORGANIZATION SYNOPSIS: TECHNOLOGY STANDARDS DEVELOPMENT ORGANIZATIONS

**Facilities Management Domain**
Generate and validate IFCs for facilities management, including space, move, asset and maintenance management; models such objects and processes as maintenance scheduling for equipment, furniture and space occupancy. FM IFC models contain representations of building elements and space; able to sort space on location, discrete selection criteria and relationships to other space. Completed project: (FM-8) Costs, Accounts and Financial Elements in FM; Current project: (FM-9) Portfolio and Asset Management - Performance Requirements (PAMPeR) [More](#)

**Project Management Domain**
The PM domain develops IFC models which support processes and applications used in all other disciplines. Member expertise includes cost estimating, scheduling, construction and project management and progress control. Projects: Completed Scheduling (PM-1); Material Selection, Specification, and Procurement (PM-3). Ongoing Projects: Business Case Transaction Standards (PM-2). [More](#)
FIATECH
3925 West Braker Lane (R4500)
Austin, TX 78759-5316
Tel: (512) 232-9600
http://www.fiatech.org/
Ric Jackson, Director
(512) 232-9601
Janie Bush, Executive Assistant
(512) 232-9669
Mark Palmer, Automating Equipment Information Exchange (301) 975-5858
Nicole Testa, Capital Projects Technology Roadmap and Data Standards & Open Systems (202) 669-3935
Charles Wood, Smart Chips (713) 523-5380

Contact:
OSCRE Contact: Andy Fuhrman
OSCRE Status:
☐ Member ☐ MOU ☐ Discussion
☐ Endorsed ☑ Roadmap

- **Org. Type: Standards Development**
- Non-profit consortium focused on fast-track development and deployment of technologies to substantially improve how capital projects and facilities are designed, engineered, built and maintained.
- Improve information accessibility, from design and engineering through maintenance and decommissioning
- Tear down supply chain barriers
- Slash engineering, construction and operational costs
- FIATECH joins together facility owners, operators, contractors, suppliers, government agencies and government and academic organizations. We bring the key decision makers to the table to deliver solutions at a cost and speed that no single participant can achieve on its own.

- **COMPLETED PROJECTS**
  - Completed Projects
  - LCDM Benefits and Metrics Phase 1
  - LCDM Information Flow Mapping
  - LCDM Operations & Maintenance Information Needs Survey Phase 1
  - LCDM Re-using Engineering Design Information Phase 1
  - XML Schema Guidelines

- **Formal Agreements**
  - Construction Industry Institute
  - International Alliance for Interoperability
  - Auto ID Center's EPC Alliance

- **Industry Alliances**
  - American Society of Civil Engineers' Architectural Engineering Institute (AEI)
  - Associated Owners and Developers (AOD)
  - Civil Engineering Research Foundation (CERF)
  - Construction Industry Round Table (CIRT)
  - Construction Users Roundtable (CURT)
  - Design-Build Institute of America (DBIA)
  - International Council for Research and Innovation in Building and Construction (CIB)
  - National Conference on States Building Codes and Standards' National Alliance for Building Regulatory Reform in the Digital Age
  - National Electrical Contractors Association (NECA)
  - Uitgebreid Samenwerkingsverband Procesindustrie, Nederland (USPI-NL)
FIATECH ROADMAP
Scenario-based Project Planning

The future project planning system will provide interactive evaluation of project alternatives, enabling creation of conceptual designs and project plans that best meet the needs of all stakeholders. This collaborative planning environment will provide full awareness of the impacts of decisions on costs, schedules, and life-cycle performance. The system will output a comprehensive project plan and specifications, captured in a master facility life-cycle model, to guide subsequent project designs and support downstream project functions. The master facility life-cycle model is a linchpin of the future state vision, serving as the repository for all design and planning information and the interface for all systems and applications.

Automated Design

Current and emerging capabilities in 3-D design, analytical modeling and simulation, intelligent systems and distributed information management offer the opportunity to create a truly integrated and automated project design environment. In this environment, all tools will work together as an interconnected system that provides all of the functionality needed to develop and validate detailed designs for every aspect of a project based on the design criteria. This integrated design environment will dramatically reduce the time and cost in moving from concept to construction execution through automation of complex design engineering tasks. It will also greatly reduce errors and liability through comprehensive, automated design optimization and verification. Optimization would include a variety of options including total installed cost, total life cycle cost, and plant output.

Integrated, Automated Procurement and Supply Network

The procurement system of the future will be seamlessly integrated with the project design system, project management and control system, and the global supply network. This will enable project teams to select products, identify qualified sources, and procure the best products at the best prices with complete confidence and ability to deliver on time and within budget sources. The system will automatically track every order through delivery to the job site, orchestrate the flow of resources for optimal build efficiency and provide instant visibility of progress and variances against technical, schedule, and cost requirements. The opportunity for the integrated procurement and supply system is to enable completely automated sourcing and supply chain interaction, from determination of needs to delivery of to-spec orders on time and within budget to point of need. The vision is centered on a project design system that seamlessly interconnects with the supply network and enables rapid completion of detailed facility designs. The system will enable automated specification of procured items based on parameters defined by the project planning system (cost, schedule, quantity) and by the design system (technical requirements). The output of the design system will be a total procurement package that accurately specifies all needed materials and components, cost and schedule. Automated bid solicitation, vendor certification, source selection, and contract negotiation will slash procurement cost and time. The supply network will be directly integrated with the capital project management system, providing continuous visibility into status and progress of every vendor/supplier activity.

Intelligent & Automated Construction Job Site

The project site and build processes of the future will be re-engineered to make use of emerging information and automation technologies to minimize capital facility delivery costs (labor, material and equipment), facility deliver time, and life-cycle costs. Linked to the master facility model, construction project management systems will continuously monitor the job site for compliance with cost, schedule, material placement and quality, technical performance, and safety. These advances will reduce construction time to a fraction of today’s averages by more effectively orchestrating and closely monitoring the use of labor, equipment and materials on the job site, and will thus provide significant savings through schedule compression with less rework for construction operations.
<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intelligent Self-Maintaining and Repairing Operational Facility</strong></td>
<td>Future capital facilities will be equipped with intelligent equipment and systems that continuously monitor and manage their condition and performance, enabling safe, secure, and continuously optimized operations. Pieces of the master facility life-cycle model created in the project planning and design phases and updated to the as-built configuration, will give operators powerful capabilities for determining the best response to changes in business requirements. These systems will autonomously invoke needed actions, using built-in mechanisms to perform required maintenance and repairs (including recalibration and replenishment) or automatically communicate instructions to external support systems. A comprehensive network of sensors and processors will provide continuous visibility of operational status and performance, flagging problems and trends for system or human attention.</td>
</tr>
<tr>
<td><strong>Real-time Project and Facility Management, Coordination and Control</strong></td>
<td>The future project/facility management system will orchestrate, control, and provide continuous visibility of all plans and tasks. The system will interface with the master facility life-cycle model, created at project inception and extended in the planning and design phases. Progress and performance of every activity will be monitored and deviations will automatically be flagged for management attention. Analytical and simulation tools will enable project and facility managers to fully understand the impacts of problems or changes, assess risks, and manage changes throughout the project/facility life cycle.</td>
</tr>
<tr>
<td><strong>New Materials, Methods, Products &amp; Equipment</strong></td>
<td>Nothing Listed</td>
</tr>
<tr>
<td><strong>Technology &amp; Knowledge Enabled Workforce</strong></td>
<td>Nothing Listed</td>
</tr>
<tr>
<td><strong>Integrated Data &amp; Information Management</strong></td>
<td>Nothing Listed</td>
</tr>
</tbody>
</table>