



OGC India Forum

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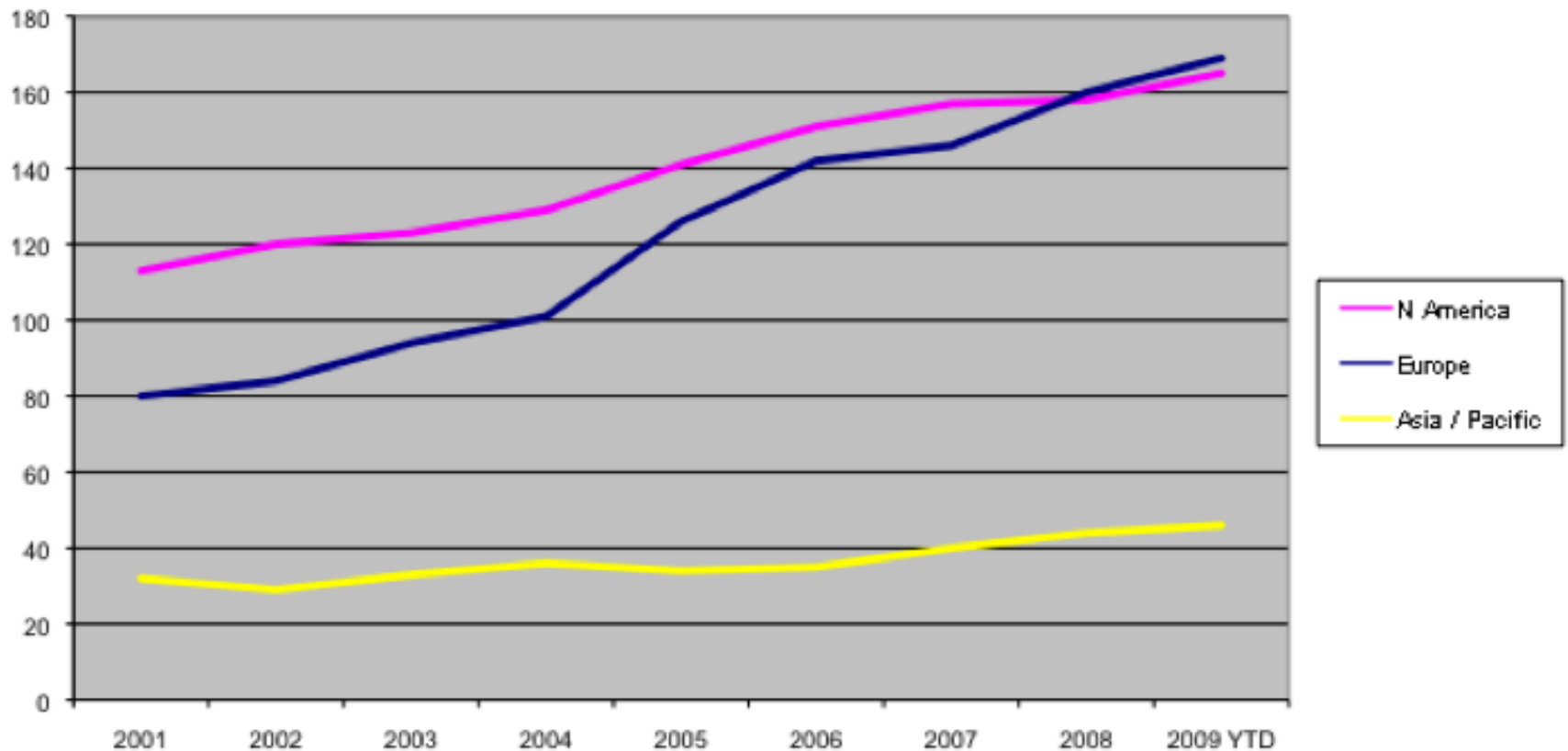
Gurgaon, India

20 January 2010

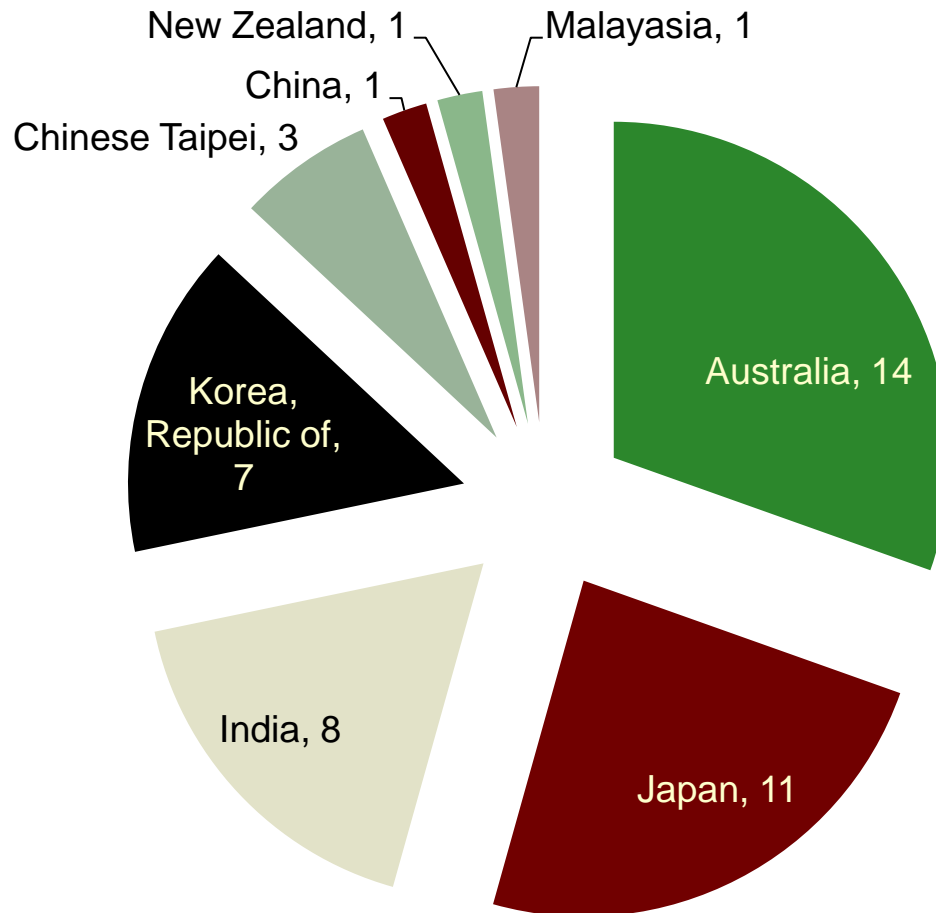
OGC Membership Census by Region



Member Census (Unit Count) by Region by Year



OGC Asia / Pacific Membership



OGC Voting Members

Asia / Pacific



• Dept of Science & Technology	Principal	India
• Rolta	Principal	
• Additional General Military Survey	Technical	
• Data World Info. Systems Pvt Ltd	Technical	
• Infotech Enterprises	Technical	
• CSIRO	Technical	Australia
• Department of Defence	Technical	
• Geoscience Australia	Technical	
• Hitachi, Central Research Laboratory	Technical	Japan
• Korea Land Corporation	Technical	Korea
• TopQuadrant	Technical	
• Wuhan University	Technical	China

Some Benefits of OGC Membership



- Early knowledge of open standards in development
- Address Indian requirements in the OGC standards development process
 - Government
 - Academia / Research
 - Business
- Network with OGC's 380+ member organizations
- Develop international market visibility for Indian organizations
- Leverage OGC member resources to help address interoperability issues of mutual interest

OGC Membership Benefits



Associate Technical Principal Strategic

• Access to OGC Member Only Portal (Working Groups, early access to developing standards)	Yes	Yes	Yes	Yes
• Free registration at OGC Committee Meeting events	Yes(1)	Yes(2)	Yes(4)	Yes(6)
• Participate and vote in OGC Working Groups	Yes	Yes	Yes	Yes
• Participate in OGC Technical Committee	Yes	Yes	Yes	Yes
• Participate in OGC Interoperability Initiatives	Yes	Yes	Yes	Yes
• Access to OGC's 380+ Members	Yes	Yes	Yes	Yes
• Discount on Compliance Certification	Yes	Yes	Yes	Yes
• Vote in OGC Technical Committee	-	Yes	Yes	Yes
• Participate & vote in OGC Planning Committee	-	-	Yes	Yes
• Participate & vote in the OGC Strategic Member Advisory Committee	-	-	-	Yes

OGC Membership Options



Level

Annual Membership (USD)

Associate

- Commercial / National Gov agency \$4,400
- Small Company \$2,200
- University \$500
- Not for Profit / Research Inst. \$1,100
- Sub-national Gov agency (state, province) \$1,100
- Local Gov agency (city, township) \$500

Technical

\$11,000

Principal

\$55,000

Strategic

Principal, plus negotiated
resources

OGC Compliance Certification Fees

Member Discount Structure



www.opengeospatial.org/compliance

Adding Products to a Trademark License during a Licensee's Trademark License Year

When an existing licensee adds a Product that has successfully passed compliance testing during the Trademark License Year, the appropriate Trademark License Fee for each such Product is pro-rated for the balance of the Trademark License Year on a whole month basis. When the number of Products licensed during a licensee's Trademark License Year exceeds the cap for a licensee's OGC membership level, if applicable, no additional Trademark License Fee is assessed.

Total Gross Annual Revenue (in millions of US Dollars)	Non-Member Fees (No Cap)	OGC Member Fees (in US Dollars)			
		Associate (No Cap)	Technical (4X Cap)	Principal (2X Cap)	Strategic (1X Cap)
\$0-<\$1M	\$100	\$80	\$320	\$160	\$80
\$1M-<\$3M	\$250	\$200	\$800	\$400	\$200
\$3M-<\$10M	\$500	\$400	\$1,600	\$800	\$400
\$10M-<\$20M	\$750	\$600	\$2,400	\$1,200	\$600
\$20M-<\$50M	\$1,200	\$960	\$3,840	\$1,920	\$960
\$50M-<\$100M	\$2,000	\$1,600	\$6,400	\$3,200	\$1,600
\$100M-<\$500M	\$4,500	\$3,600	\$14,400	\$7,200	\$3,600
\$500M+	\$7,000	\$5,600	\$22,400	\$11,200	\$5,600

Please contact the **OGC Compliance Testing Coordinator** if you have specific questions concerning the Testing Program.

OGC Alliance Partnerships

A Critical Resource for Advancing Standards



- BuildingSmart Alliance
- CEN287
- GIS Development
- Geospatial Information & Technology Association
- Internet Engineering Task Force (IETF)
- ISO TC/211, TC/204
- Open Grid Forum
- IEEE GRSS
- IEEE Technical Committee 9 (Sensor Web)
- Mortgage Industry Standards Management Organization
- NIST Sensor Standards Harmonization WG
- Taxonomic Data Working Group
- Workflow Management Coalition
- World Meteorology Organization
- Others





OGC Technical Committee

OGC Membership – Participate In Technical Committee Domain Working Groups

Domain Working Groups (DWG or WG) provide a forum for discussion of key interoperability requirements and issues, discussion and review of implementation specifications, and presentations on key technology areas relevant to solving geospatial interoperability issues.

Name	Lead **
3DIM WG (3DIM WG)	Tim Case, PB (Parsons Brinckerhoff)
Architecture DWG (Arch DWG)	Doug Nebert, US Geological Survey (USGS)
Catalog WG (Cat WG)	Doug Nebert, US Geological Survey (USGS)
Coordinate Reference System WG (CRS WG)	Roel Nicolai, Shell International Exploration and Production Inc.
Coverages WG (Cover WG)	Peter Baumann, FORWISS (Bavarian Research Centre for Knowledge-Based Systems)
Data Preservation WG (PreservWG)	Steve Morris, North Carolina State University
Data Quality WG (DQ WG)	Victor Minor, Blue Marble Geographics
Decision Support WG (DS WG)	Stan Tillman, Intergraph Corporation
Defense and Intelligence DWG (D and I DWG)	Richard Pearsall, US National Geospatial-Intelligence Agency (NGA)
Earth Systems Science DWG (ESS WG)	Phillip Dibner, Ecosystem Research
Geo Rights Management (GeoRM) WG (GeoRM WG)	Graham Vowles, Ordnance Survey
Geography Markup Language (GML) WG (GML WG)	Ron Lake, Galdos Systems Inc.
Geometry WG (GeometryWG)	John Herring, Oracle USA
Geosemantics WG (Semantics)	Joshua Lieberman, Traverse Technologies, Inc.
Hydrology DWG (Hydrology DWG)	David Lemon, CSIRO
Location Services WG (LS WG)	Marwa Mabrouk, ESRI
Mass Market Geo WG (MassMarket)	Ed Parsons, Google
Metadata WG (Metadat WG)	David Danko, ESRI
Meteorology DWG (Meteo DWG)	Chris Little, UK Met Office
Oblique Imagery DWG (ObliqueImageryD)	Tom Merkle, Lockheed Martin
Risk and Crisis Management WG (RCM WG)	Hormoz Modaressi, BRGM
Security DWG (SecurityDWG)	Andreas Matheus, University of the Bundeswehr - ITIS
Sensor Web Enablement WG (SensorWeb)	Mike Botts, University of Alabama in Huntsville
University WG (Univ WG)	Chris Higgins, Open Grid Forum
Web Feature Service WG (WFS WG)	Martin Daly, cadcorp (Computer Aided Development Corp.) Ltd.
Workflow DWG (Workflow DWG)	Stan Tillman, Intergraph Corporation

** - There may be Co-Chairs or Vice-Chairs that are not listed in this table

OGC Membership – Participate in Technical Committee Standards Working Groups



Standards Working Groups

Standards Working Groups (SWG) have specific charter of working on a candidate standard prior to approval as an OGC standard or on making revisions to an existing OGC standard.

Name	Lead ^{**}
Catalogue Services 3.0 SWG (Cat 3.0 SWG)	Doug Nebert, US Geological Survey (USGS)
CityGML 1.0 SWG (CityGML 1.0swg)	Carsten Roensdorf, Ordnance Survey
ebXML RegRep SWG (ebXMLRegRepSWG)	Frédéric Houbie, ERDAS, Inc.
GeoAPI 3.0 SWG (GeoAPI 3.0 SWG)	Martin Desruisseaux, GEOMATYS
Geographic Linkage Service 1.0 SWG (GLS 1.0 SWG)	Peter Schut, GeoConnections - Natural Resources Canada
GeoRM 1.0 SWG (GeoRM 1.0SWG)	Rüdiger Gartmann, con terra GmbH
GeoXACML SWG (GeoXACML SWG)	Jan Herrmann, Technische Universität München, Dept. of Informatics
GML 3.3 SWG (GML 3.3 SWG)	Clemens Portele, interactive instruments GmbH
GMLJP2 1.1 SWG (GMLJP2-1.1SWG)	Martin Kyle, Sierra Systems Group Inc.
IGS-IGM SWG (IGS-IGM SWG)	Stewart Walker, BAE Systems - C3I Systems
O&M 2.0 SWG (OM 2.0 SWG)	Simon Cox, Joint Research Centre (JRC)
OLS 1.3 SWG (OLS 1.3 SWG)	Carl Stephen Smyth, MAGIC Services Forum
OWS Common 1.2 SWG (OWSCommon1.2SWG)	James Greenwood, SeiCorp, Inc.
Policy 1.0 SWG (Policy 1.0 SWG)	John Herring, Oracle USA
Sensor Model Language (SensorML) 2.0 SWG (SensorML2.0SWG)	Mike Botts, University of Alabama in Huntsville
Sensor Observation Service (SOS) 2.0 SWG (SOS SWG)	Arne Broering, 52° North Initiative for Geospatial Open Source Software GmbH
SWE Common SWG (SWECommonSWG)	Alexandre Robin, Spot Image
WCS 2.0 SWG (WCS 2.0 SWG)	Steven Keens, PCI Geomatics Inc.
Web Mapping Service 1.4 SWG (WMS 1.4 SWG)	Satish Sankaran, ESRI
WFS Gazetteer Profile 1.0 SWG (WFSgaz1.0 SWG)	Doug Nebert, US Geological Survey (USGS)

****** - There may be Co-Chairs or Vice-Chairs that are not listed in this table



OGC Planning Committee

What is the OGC Planning Committee?



- The Planning Committee establishes and maintains policies and procedures for OGC's consensus process, and works to understand and anticipate market needs.
 - Members participate in OGC business planning and market focus activities
 - Manages the consortium's public release of technology and key messaging
 - Approves special negotiated memberships and committee participation.
 - Approves nominations for the OGC Board of Directors
 - Must be a Principal or Strategic Member to participate in PC activities.



OGC Interoperability Program

Interoperability Program Development



**Specification
Program**

Types of Interoperability Program Initiatives

OGC Network

Pilot

Experiment

Testbed

Technology Maturation

**Specifications
Implementations
Demonstrations**

OGC Forum Activities



- OGC Forum Characteristics

- National or Regional in extent
- Led by OGC members from the area
- Native language, national to local issues
- Common Objectives:
 - Education and Awareness (OGC standards, benefits)
 - Translation of OGC documentation to native language
 - Discuss, identify and prioritize standards and interoperability requirements for OGC international process
 - Membership recruitment
- Operations must be consistent with OGC international policies and procedures

OGC Forum Activities



- OGC UK & Ireland Forum (2005)

- Chairs: Mike Jackson (University of Nottingham, OGC Board)
Steve Wallace (QinetiQ)

- Members:

- .British Geological Survey
- Cadcorp
- CCLRC
- City University London
- Defence Science & Technology Lab.
- Dept. Energy and Climate Change
- DIGIWG
- EDINA, University of Edinburgh
- Envitia, Ltd.
- eSpatial Solutions
- GE Energy Solutions
- Infoterra
- MOD Intelligence Collection Group
- IT Innovation
- Mileridge, Ltd
- Natural Environment Research Council
- Ordnance Survey
- Qinetiq
- Science & Technology Facilities Council
- Snowflake
- UK MET Office
- UNIGIS UK
- UK Hydrographic Office
- University College London
- University Leeds
- University of Manchester
- University of Newcastle Upon Tyne
- University of Nottingham

OGC Forum Activities



- OGC UK & Ireland Forum (continued)
 - Focus Areas:
 - Promotion and adoption of existing OGC standards in the form of a simple "working set" appropriate to the UK and Irish markets
 - Creation of a message suitable for the UK & Irish market. Address resources and materials needed to educate the market and teach people how to define their requirements.
 - Creation of a persistent network test-bed for the UK and Ireland as part of a broader global infrastructure, for research, testing and demonstration, as well as creation of a reliable resource capable of supporting critical public and private sector program specification needs
 - Develop working relationships with the AGI and similar organizations so as to complement their programs and achieve authentic mutual benefit.
 - To support the OGC Europe Forum, and OGC global outreach in furthering the OGC global mission

OGC Forum Activities



- OGC France Forum

- Chair: Francois Robida (BRGM, OGC Board)
- Charter Members:

1. AIS (Agenium Informatique et Systemes)
2. BRGM
3. EADS Astrium
4. Camptocamp France
5. Générale d'Infographie
6. GeoConcept
7. GEOMATYS
8. Institut Geographique National (IGN)
9. Office International de l'Eau
10. Spot Image
11. Thales Alenia Space



OGC Forum Activities



- OGC France Forum (continued)

- Focus:

- *Develop awareness, acceptance and implementation of geospatial interoperability best practices based on European and National policies*
 - *Translate OGC documentation in to French language*
 - *Identify requirements related to French needs for introduction into OGC processes*
 - *Manage an OGC France Forum website to support dissemination, discussion and demonstration*
 - *Improve OGC membership representation from France*
 - *Support the OGC European Forum*
 - *Plan and conduct OGC interoperability events in France*

OGC Forum Activities



- OGC Korea Forum (March 2009)
 - Chair: Jinsoo You (TopQuadrant, Korea)



- Members:
 1. Electronics and Telecommunications Research Institute (ETRI)
 2. National Geographic Information Institute
 3. Korea Land Corporation
 4. Pusan National University
 5. Sejong University, Dept. of Geoinformation Engineering
 6. TopQuadrant Korea
 7. Yonsei University - The u-City Research Institute

OGC Forum Activities



- OGC Korea (continued)

- Focus:

- *Develop awareness, acceptance and implementation of geospatial interoperability best practices based on Korean National policies*
 - *Develop a set of documentation presenting the OGC standards in Korea, and adapted to Korean issues, use cases and organizational features*
 - *Identify requirements related to Korean needs for introduction into OGC processes*
 - *Manage an OGC Korean Forum site to support dissemination, discussion and demonstration*
 - *Coordinate the organization of Interoperability Day events in Korea on a regular basis...*
 - *Improve OGC membership in Korea, particularly with industry, academic and research organizations*
 - *Support the OGC global outreach and OGC Asia/Pacific regional projects in furthering the OGC global mission*

OGC Forum Activities



- OGC India Forum (July 2009)

- Chair: Dr. M.K. Munshi (GIS Development)

- Members:

1. Additional Director General Military Survey
2. DataWorld Information Systems, Pvt Ltd
3. Department of Science & Technology
4. GIS Development Private Ltd
5. InfoTech Enterprises Ltd
6. India National Centre for Ocean Information Services (INCOIS)
7. Rolta India, Ltd
8. Scanpoint Geomatics, Ltd
9. ERDAS
10. Intergraph India
11. PCI Geomatics (India)
12. Oracle (India)



OGC Forum Activities



- OGC India Forum (continued)

- *Focus:*

- *Advance OGC best practices based on Indian policies from the local to national levels.*
 - *OGC standards as mechanism for enhanced competition in the international marketplace*
 - *Strengthen awareness and use of OGC Compliance testing and certification in India.*
 - *Identify and advance local to regional OGC interoperability pilot initiatives, demonstrations...*
 - *Improve quality of students in the international job market...*
 - *Identify requirements related to Indian needs for introduction into OGC international standard processes*
 - *Manage an OGC India Forum website*
 - *Coordinate the organization of Interoperability Day events in India on a regular basis*
 - *Develop working relationships with Indian professional associations*
 - *Improve local government, academic, research, industry membership in OGC*
 - *Support OGC global outreach in furthering the OGC global mission*
 - *Identify research areas in standardisation and interoperability which could be addressed by Indian research institutes*

Thanks to Ashok Kaushal



- Ashok Kaushal (PCI Geomatics) was the OGC India Forum interim Chair from September 2009 through 12 January 2010



- Thanks to Ashok for volunteering his time and expertise to draft the Forum Charter, and to facilitate the process.

OGC Global Advisory Council



- Global Advisory Council
 - Committee of the OGC Board of Directors
 - Non executive council of leaders from around the globe
 - Establishes a truly global context / reach for organizing strategic issues into the OGC process
 - India representatives:
 - Sanjay Kumar
 - Siva Kumar (OGC Board of Directors)
 - K.K. Singh
 - OGC Forum Activities have representation on the Council



Spatial Law and Policy

- Rapid growth in use of location information and technology, which is raising a number of unique legal issues
- Legal and policy community have been unable to keep pace
- Issues are currently being addressed by those who may not fully understand the information / technology
- As a result, legal and policy issues may soon impact the growth and direction of the industry

Spatial Law and Policy

Data Quality / Liability



GPS-guided wreckers flatten wrong house

Errant crew have 'paperwork', but no address or common sense

By **Lester Haines** • [Get more from this author](#)

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A Georgia man is none too happy that his memory-filled family home, lovingly hand built "brick by brick" by Pop, is now a scene of rubble-strewn desolation after a demolition firm used a GPS to identify its victim and moved in for the kill.

Al Byrd of Sandy Springs got a bit of a shock earlier this month when someone called to let him know the Carroll County house was no more. Byrd had lived there with his nine brothers and sisters, and the house still contained precious heirlooms including "mom's dining room set ... her hutch" with her dishes in there".

These Little House on the Prairie touches meant nothing to the Marietta wrecking outfit, apparently acting on the instructions of another unnamed Texas company, who flattened the building.

The carnage was witnessed by Byrd's cousin, who captured video images of "a bulldozer in the yard of the house with dumpsters loaded with rubble". Byrd confronted the destroyers, who said they had "paperwork".

He recounted: "I said, 'Paperwork for what?' and he said, 'For the house, to demolish the house.' I said, 'I'm the owner of the house, I haven't given anybody any authority to demolish this house.'"

Source:

www.theregister.co.uk/2009/06/15/gps_house_flattening/

OGC[®]

Oct 1, 2008 6:29 am US/Eastern

Driver Blames GPS System For Car-Train Collision

Metro-North Spokeswoman Says Not So Fast: 'If GPS Told You To Drive Off A Cliff, Would You Drive Off A Cliff?'

Second Such Incident At Same Location In Last 10 Months



Reporting
Sean
Hennessey

On Monday night a man's car got stuck on the Metro-North tracks in Bedford Hills in Westchester County because he said his GPS told him to make a right turn.

And it's not the first time this has happened there.

It's the tool that has become indispensable for some -- the GPS directional unit, which literally tells a driver where to turn to get to any destination.

But police in Westchester said Jose Silva's over dependence on GPS led to his car getting leveled by a train after being stuck on the track. Silva and his passengers escaped injury before the train came.

"If he was paying attention to the road it might not have happened," said Assistant Dep. Chief Steve Conner of the Metropolitan Transportation Authority Police.

BEDFORD HILLS, N.Y. (CBS) — Many of us rely on them to get us where we're going, but when it comes to Global Positioning Satellites how much trust is too much?



GPS system (file)
AP

Related Slideshows



What A Way To Go



Openly Gay Celebrities



Celebs Who Lean To The Right

Discussion

Initial Steps for OGC India Forum



Understanding Implications of Spatial Policy and Legal Developments



- OGC Board of Directors recently formed an “OGC Spatial Law and Policy Committee”
- Mission: Identify and understand the aspects of interoperability that touch most directly on spatial law and policy issues
 - privacy;
 - liability (primarily in the form of data quality);
 - intellectual property rights (e.g. with respect to digital rights management).