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### ISO/TC 211 Geographic information/Geomatics

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# Report of the secretariat to the 16th plenary meeting of ISO/TC 211 in, Thun, Switzerland, 2003-05-22/23

## 1. Title

Geographic information/Geomatics

## 2. Scope

Standardization in the field of digital geographic information.

This work aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth.

These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analyzing, accessing, presenting and transferring such data in digital/electronic form between different users, systems and locations.

The work shall link to appropriate standards for information technology and data where possible, and provide a framework for the development of sector-specific applications using geographic data.

## 3. Chairman

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## 5. Membership

### *P-members (29)*

Australia (SAI)	Italy (UNI)	Serbia and Montenegro (SZS)
Austria (ON)	Japan (JISC)	South Africa (SABS)
Belgium (IBN)	Republic of Korea (KATS)	Spain (AENOR)
Canada (SCC)	Malaysia (DSM)	Sweden (SIS)
People's Republic of China (SAC)	Morocco (SNIMA)	Switzerland (SNV)
Czech Republic (CSNI)	New Zealand (SNZ)	Thailand (TISI)
Denmark (DS)	Norway (NSF)	Turkey (TSE)
Finland (SFS)	Portugal (IPQ)	United Kingdom (BSI)
Germany (DIN)	Russian Federation (GOST R)	USA (ANSI)
Hungary (MSZT)	Saudi Arabia (SASO)	

**O-members (27)**

Argentina (IRAM)	India (BIS)	Poland (PKN)
Bahrain (BSMD)	Islamic Republic of Iran (ISIRI)	Slovakia (SUTN)
Brunei Darussalam (CPRU)	Ireland (NSAI)	Slovenia (SIST)
Colombia (ICONTEC)	Jamaica (JBS)	United Republic of Tanzania (TBS)
Cuba (NC)	Kenya (KEBS)	Ukraine (DSTU)
Estonia (EVS)	Mauritius (MSB)	Uruguay (UNIT)
France (AFNOR)	Netherlands (NEN)	Zimbabwe (SAZ)
Greece (ELOT)	Oman (DGSM) (corr.)	
Hong Kong, China (ITCHKSAR)	Pakistan (PSQCA)	
Iceland (IST)	Philippines (BPS)	

**A-liaisons (21)**

Committee on Earth Observation Satellites/Working Group on Information Systems and Services, CEOS/WGISS

Digital Geographic Information Working Group, DGIWG

European Petroleum Survey Group, EPSG

Global Spatial Data Infrastructure, GSDI

IEEE Geoscience and Remote Sensing Society

International Association of Geodesy, IAG

International Cartographic Association, ICA

International Civil Aviation Organization, ICAO

International Federation of Surveyors, FIG

International Hydrographic Bureau, IHB (IHO -International Hydrographic Organization)

International Society for Photogrammetry and Remote Sensing, ISPRS

International Steering Committee for Global Mapping, ISCGM

Joint Research Centre of the European Union, JRC

Open GIS Consortium, Incorporated, OGC

Permanent Committee on GIS Infrastructure for Asia and the Pacific, PCGIAP

Permanent Committee on Spatial Data Infrastructure for Americas, PC IDEA

Scientific Committee on Antarctic Research, SCAR

UN ECE Statistical Division

United Nations Geographic Information Working Group, UNGIWG

United Nations Group of Experts on Geographical Names, UNGEGN

World Meteorological Organization, WMO

**Internal liaisons**

ISO/IEC JTC 1/SC 2 Coded character sets

ISO/IEC JTC 1/SC 24 Computer graphics and image processing

ISO/IEC JTC 1/SC 32 Data Management and Interchange

ISO/IEC JTC 1/SC 35 User Interface

ISO/TC 204 Transport Information and Control Systems

ISO/TC 20/SC 13 Space data and information transfer systems

ISO/TC 23/SC 19 Agricultural electronics

ISO/TC 184/SC4 Industrial Data

ISO/TC 82 Mining

ISO/TC 46/WG 2 Coding of country names and related entities

ISO/TC 130 Graphic Technology

## 6. Meetings

ISO/TC 211 has had the following plenary meetings:

1	1994-11-10/11	Oslo, Norway
2	1995-08-28/29	Reston, VA, USA
3	1996-05-30/31	Seoul, Republic of Korea
4	1997-01-23/24	Sydney, Australia
5	1997-10-02/03	Oxford, United Kingdom
6	1998-03-05/06	Victoria, BC, Canada
7	1998-09-24/25	Beijing, People's Republic of China
8	1999-03-04/05	Vienna, Austria
9	1999-09-29/30	Kyoto, Japan
10	2000-03-09/10	Cape Town, South Africa
11	2001-09-07/08	Reston, VA, USA
12	2001-03-08/09	Lisbon, Portugal
13	2001-10-25/26	Adelaide, Australia
14	2002-05-23/24	Bangkok, Thailand
15	2002-11-14/15	Gyeongju, Republic of Korea

## 7. Working groups

### 7.1 Active working groups

#### **Working group 4 – Geospatial services**

*Convenor:*

**Mr. Morten Borrebæk**, Norway

*Work items:*

Project no.	Title	Stage	Project leader/editor
19116	Geographic information – Positioning services	→ IS	Mr. Thad Mauney, USA
19117	Geographic information – Portrayal	→ IS	Mr. Ronald Toppe, Norway
19118	Geographic information – Encoding	→ IS	Mr. David Skogan, Norway
19119	Geographic information – Services	→ IS	Dr. Arne-Jørgen Berre, Norway/Mr. George Percivall, USA
19125-1	Geographic information – Simple feature access – Part 1: Common architecture	→ IS	Mr. John R. Rowley, OGC
19125-2	Geographic information – Simple feature access – Part 1: SQL options	→ IS	Mr. John R. Rowley, OGC
19125-3	Geographic information – Simple feature access – Part 1: COM/OLE options	NP	Mr. John R. Rowley, OGC
19128	Geographic information - Web Map server interface	CD	Mr. John R. Rowley, OGC Editor Dr. Jeff de La Beaujardiere
19136	Geographic information - Geography Markup Language (GML)	NP	Mr. Clement Portele, Germany

**Working group 6 – Imagery**

Convenor:

**Mr. C. Douglas O'Brien**, Canada

Work items:

Project no.	Title	Stage	Project leader/editor
19129 - TS	Geographic information - Imagery, gridded and coverage data framework	WD	Dr. Kian Fadaie, Canada
19130	Geographic information - Sensor and data models for imagery and gridded data	WD	Dr. Liping Di, USA/ Professor Wolfgang Kresse, Germany

**Working group 7 – Information communities**

Convenor:

**Dr. Antony Cooper**, South Africa

Work items:

Project no.	Title	Stage	Project leader/editor
19120 Amd.1	Geographic information – Functional standards – Technical amendment	NP	Mr. Mike Harbaugh, DGIWG
19122 - TR	Geographic information/Geomatics - Qualifications and Certification of personnel	DTR	Dr. Robert Maher, Canada
19126	Geographic information – Profil – FACC Data Dictionary	WD	Mr. Raymond Staggemeier, DGIWG
19137	Geographic information - Generally used profiles of the spatial schema and of similar important other schemas	NP	Mr. Josef Dorfschmid, Switzerland
19139	Geographic information - Metadata - Implementation specifications	NP	Mr. Dave Danko, USA Editor: Mr. John Eller, USA

**Working group 8 – Location based services**

Convenor:

**Mr. John R. Rowley**, United Kingdom

Work items:

Project no.	Title	Stage	Project leader/editor
19132	Geographic information - Location based services possible standards	DRS	Mr. Martin Ford, United Kingdom
19133	Geographic information - Location based services tracking and navigation	CD	Dr. John R. Herring, USA
19134	Geographic information - Multimodal location based services for routing and navigation	NP	Professor John Tschangho Kim, Rep. of Korea

**Working group 9 – Information management**

Convenor:

Dr. Hiroshi Imai, Japan

Work items:

Project no.	Title	Stage	Project leader/editor
19127 - TS	Geographic information – Geodetic codes and parameters	DTS	Ms. Julie Binder Maitra, USA
19131	Geographic information - Data product specifications	CD	Dr. João de Matos, Portugal
19135	Geographic information - Procedures for registration of geographical information items	WD	Dr. Charles Roswell, USA
19138	Geographic information - Data quality measures	NP	Dr. Gerhard Joos, Germany

**Project directly under the TC**

Project no.	Title	Stage	Project leader/editor
19140	Technical Amendment to the ISO 191** Geographic information series of standards for harmonization and enhancements	NP	Dr. Rob Walker, United Kingdom

**7.2 New projects****Per 2003-04-14 the following proposals are approved but not allocated to a WG:**

Doc. no.	Title	Stage	Project leader/editor
N 1396/ N 1425	Geographic information - Metadata - Part 2: Metadata for imagery and gridded data (19115-2)	NWIP (approved)	Mr. John Eller, USA/Mr. Dave Danko, USA

**8. Advisory groups and other groups****Advisory group on strategic directions**

Chair: Mr. Olaf Østensen, ISO/TC 211 Chairman

**Advisory group on web map services**

Chair: Mr. Michel Mellinger, Canada

**Advisory group on outreach**

Chairs: Professor Hans Knoop, Germany and Mr. Henry Tom, GSDI

**ISO/TC 211 / Open GIS Consortium, Inc. co-ordination group**

Chair: Mr. John Rowley, United Kingdom

**Harmonized Model Maintenance Group (HMMG)**

Chair: Dr. John R. Herring, USA, editor Mr. Shawn Silkensen

**ISO/TC 204 / ISO/TC 211 task force**

Coordinator: Mr. Christopher J. Gower, United Kingdom

**Terminology maintenance group (TMG)**

Convenor: Mr. Andrew Jones, Australia

**Joint Steering Group for Spatial Standardization**

This is not an ISO/TC 211 group. The membership is open to all Spatial Standards Setting Organizations (SSSOs), including those that use or have requirements for spatial standards.

Chair: Mr. Olaf Østensen

**9. Disbanded working groups****Working group 1 – Framework and reference model**

(Disbanded, resolution 193, Adelaide, 2001-10-25/26)

Convenors:

**Dr. H. Gregory Smith**, USA (1995-08 – 1996-05)

**Dr. Christopher Dabrowski**, USA (1996-05 – 2000-12)

**Mr. Norman C. Andersen**, USA (2001-04 – 2001-10)

Work items:

Project no.	Title	Stage	Project leader/editor
19101	Geographic information – Reference model	IS	Mr. Norman Andersen, USA
19102	Geographic information – Overview Deleted by resolution 192, Adelaide 2001-10-25/26		Mr. Chris Gower, UK
19103 - TS	Geographic information – Conceptual schema language	→ DTS	Dr. Arne-Jørgen Berre, Norway
19104	Geographic information – Terminology	→ IS	Mr. Martin Ford, UK
19105	Geographic information – Conformance and testing	IS	Dr. Hiroshi Imai / Dr. Kenichi Asai, Japan
19121	Geographic information – Imagery and gridded data	TR	Dr. Kian Fadaie, Canada
19124	Geographic information – Imagery and gridded data components	Review summary	Dr. Kian Fadaie, Canada
19129	Project moved to WG 6		
19130	Project moved to WG 6		

**Working group 2 – Geospatial data models and operators**

(Disbanded, resolution 194, Adelaide, 2001-10-25/26)

Convenors:

**Dr. Ken Bullock**, Australia (1995-08 – 2000-03)

**Mr. Antony Cooper**, South Africa (2000-09 – 2001-10)

Work items:

Project no.	Title	Stage	Project leader/editor
19107	Geographic information – Spatial schema	→ IS	Dr. David Parker, UK/Dr. John R. Herring, USA
19108	Geographic information – Temporal schema	IS	Dr. Charles Roswell, USA
19109	Geographic information – Rules for application schema	→ FDIS	Mr. Steinar Høseggen, Norway
19123	Geographic information – Schema for coverage geometry and functions	→ DIS	Dr. Charles Roswell, USA

**Working group 3 – Geospatial data administration****(Disbanded, resolution 195, Adelaide, 2001-10-25/26)***Convenors:***Mr. Les Rackham**, United Kingdom (1995-08 – 1999-03)**Mr. Neil Smith**, United Kingdom (1999-03 – 1999-12)**Dr. Robert Walker**, United Kingdom (1999-12 – 2001-10)*Work items:*

<b>Project no.</b>	<b>Title</b>	<b>Stage</b>	<b>Project leader/editor</b>
19110	Geographic information – Feature cataloguing methodology	→ FDIS	Dr. Robert D. Rugg, USA
19111	Geographic information – Spatial referencing by coordinates	IS	Professor Hermann Seeger/Dr. Johannes Ihde, Germany
19112	Geographic information – Spatial referencing by geographic identifiers	→ IS	Dr. Robert Walker, UK
19113	Geographic information – Quality principles	IS	Dr. Joel Morrison/Ms. Leslie Godwin, USA
19114	Geographic information – Quality evaluation procedures	→ IS	Dr. Ryosuke Shibasaki, Japan/Mr. Fred R. Broome, USA
19115	Geographic information – Metadata	→ IS	Mr. David Danko, USA
19126	Project moved to WG 7		
19127	Project moved to WG 9		

**Working group 5 – Profiles and functional standards****(Disbanded, resolution 196, Adelaide, 2001-10-25/26)***Convenors:***Mr. Dave McKellar**, Canada (1995-08 – 1997-01)**Mr. Kees Wevers**, Netherlands (1997-01 – 1999-02)**Mr. C. Douglas O'Brien**, Canada (1999-02 – 2001-10)*Work items:*

<b>Project no.</b>	<b>Title</b>	<b>Stage</b>	<b>Project leader/editor</b>
19106	Geographic information – Profiles	→ IS	Mr. Doug O'Brien, Canada
19120	Geographic information – Functional standards	TR	Ms. Debra LaMarque, DGIWG †
19120 Amd. 1	Project moved to WG 7		