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ISO/TC 211

Geographic information/Geomatics

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Report of the secretariat to the 14th plenary meeting of ISO/TC 211 in, Bangkok, Thailand, 2002-05-23/24

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

O-members (27)

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

A-liaisons (18)

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
 The Committee on Earth Observation Satellites/Working Group on Information Systems and
 Services, CEOS/WGISS
 The Permanent Committee on GIS Infrastructure for Asia and the Pacific, PCGIAP
 UN ECE Statistical Division
 United Nations Geographic Information Working Group (UNGIWG)
 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

7. Working groups

7.1 Active working groups

Working group 4 – Geospatial services

Convenor:

Mr. Morten Borrebæk, Norway

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Work items:

Project no.	Title	Stage	Project leader/editor
19116	Geographic information – Positioning services	→ 40.00	Mr. Thad Mauney, USA
19117	Geographic information – Portrayal	40.20	Mr. Ronald Toppe, Norway
19118	Geographic information – Encoding	→ 40.00	Mr. David Skogan, Norway
19119	Geographic information – Services	40.20	Dr. Arne-Jørgen Berre, Norway/Mr. George Percivall, USA
19125-1	Geographic information – Simple feature access – Part 1: Common architecture	→ 50.00	Mr. John R. Rowley, OGC
19125-2	Geographic information – Simple feature access – Part 1: SQL options	→ 50.00	Mr. John R. Rowley, OGC
19125-3	Geographic information – Simple feature access – Part 1: COM/OLE options	20.20	Mr. John R. Rowley, OGC
19128	Geographic information - Web Map server interface	20.20	Mr. John R. Rowley, OGC

**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:

Project no.	Title	Stage	Project leader/editor
19106	Geographic information – Profiles	→ 40.00	Mr. Doug O'Brien, Canada
19120	Geographic information – Functional standards	TR	Ms. Debra LaMarque, DGIWG †
19120 Amd. 1	Project moved to WG 7		

Working group 6 – Imagery

Convenor:

Acting: Mr. C. Douglas O'Brien, Canada

Work items:

Project no.	Title	Stage	Project leader/editor
19129	Geographic information - Imagery, gridded and coverage data framework	20.20	Dr. Kian Fadaie, Canada
19130	Geographic information - Sensor and data models for imagery and gridded data	20.20	Dr. Liping Di, USA/ Professor Wolfgang Kresse, Germany

Working group 7 – Information communities

Convenor:

Acting: Dr. Antony Cooper, South Africa

Work items:

Project no.	Title	Stage	Project leader/editor
19120 Amd.1	Geographic information – Functional standards – Technical amendment	20.20	Mr. Mike Harbaugh, DGIWG
19122	Geographic information/Geomatics - Qualifications and Certification of personnel	20.20	Dr. Robert Maher, Canada
19126	Geographic information – Profil – FACC Data Dictionary	20.20	Mr. Ian Spencer, DGIWG

Working group 8 – Location based services*Convenor:*

Under ballot

Work items:

Project no.	Title	Stage	Project leader/editor
19132	Geographic information - Location based services possible standards	20.20	Mr. Martin Ford, United Kingdom
19133	Geographic information - Location based services tracking and navigation	20.20	Dr. John R. Herring, USA
19134	Geographic information - Multimodal location based services for routing and navigation	20.20	Professor John Tschangho Kim, Rep. of Korea

Working group 9 – Information management*Convenor:***Acting: Dr. Hiroshi Imai**, Japan*Work items:*

Project no.	Title	Stage	Project leader/editor
19127	Geographic information – Geodetic codes and parameters	20.20	Ms. Julie Binder Maitra, USA
19131	Geographic information - Data product specifications	20.20	Dr. João de Matos, Portugal
19135	Geographic information - Procedures for registration of geographical information items	20.20	Dr. Charles Roswell, USA

7. 2 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	→ 50.00	Mr. Norman Andersen, USA
19102	Geographic information – Overview Deleted by resolution 192, Adelaide 2001-10-25/26		Mr. Chris Gower, UK

Project no.	Title	Stage	Project leader/editor
19103	Geographic information – Conceptual schema language	→ 50.00	Dr. Arne-Jørgen Berre, Norway
19104	Geographic information – Terminology	→ 40.00	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	→ 50.00	Dr. David Parker, UK/Dr. John R. Herring, USA
19108	Geographic information – Temporal schema	→ 50.00	Dr. Charles Roswell, USA
19109	Geographic information – Rules for application schema	40.20	Mr. Steinar Høseggen, Norway
19123	Geographic information – Schema for coverage geometry and functions	30.20	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:

Project no.	Title	Stage	Project leader/editor
19110	Geographic information – Feature cataloguing methodology	→ 50.00	Dr. Robert D. Rugg, USA
19111	Geographic information – Spatial referencing by coordinates	→ 50.00	Professor Hermann Seeger/Dr. Johannes Ihde, Germany

Project no.	Title	Stage	Project leader/editor
19112	Geographic information – Spatial referencing by geographic identifiers	→ 50.00	Dr. Robert Walker, UK
19113	Geographic information – Quality principles	→ 50.00	Dr. Joel Morrison/Ms. Leslie Godwin, USA
19114	Geographic information – Quality evaluation procedures	→ 50.00	Dr. Ryosuke Shibasaki, Japan/Mr. Fred R. Broome, USA
19115	Geographic information – Metadata	→ 50.00	Mr. David Danko, USA
19126	Project moved to WG 7		
19127	Project moved to WG 9		

Per 2002-04-22 the following proposals are under ballot:

N 1220	Geographic information - Geography Markup Language (GML)	10.20	OGC
N 1222	Geographic information - Generally used profiles of the spatial schema and of similar important other schemas	10.20	NB of Switzerland

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

Acting chair: Professor Hans Knoop, Germany

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

Chair: Mr. John Rowley, United Kingdom

Model harmonization team

Chair: Dr. John R. Herring, USA

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