

Australian/New Zealand Standard™

Geographic information—Data product specifications



AS/NZS ISO 19131:2008

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Australian Antarctic Division
Australian Bureau of Statistics
Australian Hydrographic Office
Australian Key Centre In Land Information Studies
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This Standard was issued in draft form for comment as DR 08108.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION
OF
AS/NZS ISO 19131:2008
Geographic information–Data
product specifications

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-004, Geographical Information/Geomatics.

This Standard incorporates Amendment No. 1 (October 2012). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to describe requirements for the specification of geographic data products, based upon the concepts of other ISO 19100 Standards.

A1 | This Standard is identical with, and has been reproduced from ISO 19131:2007, *Geographic information—Data product specifications* and its amendment ISO 19131:2007/Amd.1:2011, which is added at the end of the source text.

As this Standard is reproduced from an international standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this International Standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS ISO	
639	Code for the representation of names of languages	—	
639-2	Part 2: Conceptual schema language		
19103	Geographic information—Conceptual schema language	19103	Geographic information—Conceptual schema language
19107	Geographic information—Spatial schema	19107	Geographic information—Spatial schema
19108	Geographic information—Temporal schema	19108	Geographic information—Temporal schema
19109	Geographic information—Rules for application schema	19109	Geographic information—Rules for application schema
19110	Geographic information—Methodology for feature cataloguing	19110	Geographic information—Methodology for feature cataloguing
19111	Geographic information—Spatial referencing by coordinates	19111	Geographic information—Spatial referencing by coordinates
19112	Geographic information—Spatial referencing by geographic identifiers	19112	Geographic information—Spatial referencing by geographic identifiers
19113	Geographic information—Quality principles	19113	Geographic information—Quality principles

19115	Geographic information—Metadata	19115	Geographic information—Metadata
19117	Geographic information—Portrayal	19117	Geographic information—Portrayal
ISO		AS/NZS ISO	
19123	Geographic information—Schema for coverage geometry and functions	19123	Geographic information—Schema for coverage geometry and functions
19138	Geographic information—Data quality measures	19138	Geographic information—Data quality measures

The terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

CONTENTS

	<i>Page</i>	
1	Scope	1
2	Conformance	1
3	Normative references	1
4	Terms and definitions	2
5	Symbols and abbreviated terms	4
5.1	Abbreviations	4
5.2	UML notation	4
5.3	UML model relationships	5
5.4	UML model stereotypes	6
5.5	Package abbreviations	6
6	General structure and content of a data product specification	6
7	Overview	7
8	Specification scopes	8
9	Data product identification	8
10	Data content and structure	9
10.1	Feature-based data	9
10.2	Coverage-based and imagery data	10
11	Reference systems	10
12	Data quality	11
13	Data capture	11
14	Data maintenance	11
15	Portrayal	11
16	Data product delivery	12
17	Additional information	12
18	Metadata	12
Annex A	(normative) Abstract test suite	13
Annex B	(informative) Relationship between data product specification and metadata	14
Annex C	(informative) UML packages	15
Annex D	(normative) Data product specification scopes	16
Annex E	(normative) Data product specification contents	18
Annex F	(informative) Example of a data product specification	29

INTRODUCTION

A data product specification is a detailed description of a dataset or dataset series together with additional information that will enable it to be created, supplied to and used by another party. It is a precise technical description of the data product in terms of the requirements that it will or may fulfil. However, the data product specification only defines how the dataset should be. For various reasons, compromises may need to be made in the implementation. The metadata associated with the product dataset should reflect how the product dataset actually is.

A data product specification may be created and used on different occasions, by different parties and for different reasons. It may, for example, be used for the original process of collecting data as well as for products derived from already existing data. It may be created by producers to specify their product or by users to state their requirements.

The purpose of this International Standard is to provide practical help in the creation of data product specifications, in conformance with other existing standards for geographic information. An aim is to produce a complete list of the items used to specify a data product.

This International Standard makes references to parts of existing standards. Some of the items used to specify the data in a data product can also be used as metadata for a resulting dataset with the same data product.

It is not necessary for a data product specification to specify the production process, but only the resulting data product. Nevertheless, it may include production and maintenance aspects if judged necessary to describe the data product.

This International Standard describes the content and structure of a data product specification. An example of a data product specification is presented in Annex F.

When an item for a data product specification is already defined in another standard of the ISO 19100 series, a reference to that document is explicitly made.

This International Standard is intended for use by producers, providers and potential users of data products.

AUSTRALIAN/NEW ZEALAND STANDARD

Geographic information — Data product specifications**1 Scope**

This International Standard describes requirements for the specification of geographic data products, based upon the concepts of other ISO 19100 International Standards. It also provides help in the creation of data product specifications, so that they are easily understood and fit for their intended purpose.

2 Conformance

Any data product specification claiming conformance with this International Standard shall pass all the requirements described in the abstract test suites in Annex A.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 639-2, *Code for the representation of names of languages — Part 2: Alpha-3 code*

ISO/TS 19103, *Geographic information — Conceptual schema language*

ISO 19107, *Geographic information — Spatial schema*

ISO 19108, *Geographic information — Temporal schema*

ISO 19109:2005, *Geographic information — Rules for application schema*

ISO 19110, *Geographic information — Methodology for feature cataloguing*

ISO 19111, *Geographic information — Spatial referencing by coordinates*

ISO 19112, *Geographic information — Spatial referencing by geographic identifiers*

ISO 19113, *Geographic information — Quality principles*

ISO 19115, *Geographic information — Metadata*

ISO 19117, *Geographic information — Portrayal*

ISO 19123, *Geographic information — Schema for coverage geometry and functions*

ISO/TS 19138, *Geographic information — Data quality measures*