

Australian/New Zealand Standard™

**Geographic information—Quality
assurance of data supply**



AS/NZS ISO 19158:2013

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT-004, Geographical Information/Geomatics. It was approved on behalf of the Council of Standards Australia on 12 December 2012 and on behalf of the Council of Standards New Zealand on 16 November 2012. This Standard was published on 29 January 2013.

The following are represented on Committee IT-004:

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Australasian Fire and Emergency Service Authorities Council
Australian Antarctic Division
Australian Hydrographic Office
Australian Map Circle
CSIRO Exploration and Mining
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This Standard was issued in draft form for comment as DR AS/NZS ISO 19158.

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PREFACE

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

The objective of this Standard is to provide a quality assurance framework for the producer and customer in their production relationship and to identify methods of managing the quality of production more efficiently and effectively.

This Standard is identical with, and has been reproduced from ISO/TS 19158:2012, *Geographic information—Quality assurance of data supply*.

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 Technical Specification’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

None of the normative references in the source document have been adopted as Australian or Australian/New Zealand Standards.

The terms ‘normative’ and ‘informative’ have been used in this Standard 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.

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INTRODUCTION

This Technical Specification provides a quality assurance framework for the producer and customer in their production relationship. It identifies methods of managing the quality of production more efficiently and effectively. It enables innovation and continual improvement within the context of existing:

- geographic information quality principles and quality evaluation procedures, and
- quality management systems.

With ever increasing demands in value and quality in the Geographic Information (GI) market the framework facilitates the production of a product that meets requirements in terms of cost, quantity, quality and timeliness.

Through the application of the framework there are opportunities for:

- better understanding of requirements by all involved in production and update especially within multiple producer environments,
- reduced data throughput time,
- reduced rework,
- improved data quality, and
- increased confidence within a mutually beneficial relationship leading to lower costs for both supplier and organization.

ISO 19157 establishes the principles for the description of geographic data quality and specifies components for reporting quality information as well as procedures for the evaluation of geographic data quality.

The quality assessment procedure, as defined in this Technical Specification, is a second-party (customer) conformity assessment activity.

AUSTRALIAN/NEW ZEALAND STANDARD

Geographic information—Quality assurance of data supply**1 Scope**

This Technical Specification provides a framework for quality assurance specific to geographic information. It is based upon the quality principles and quality evaluation procedures of geographic information identified in ISO 19157 and the general quality management principles defined in ISO 9000 [2].

The framework defined in this Technical Specification enables a customer to satisfy itself that its suppliers, both internal and external, are capable of delivering geographic information to the required quality. Fundamental to the framework is the assurance of the supplier's ability to understand and meet the quality requirements. Through the quality assurance framework both the customer and the supplier are able to consider the quality required at the earliest opportunity in the production/update process.

Principles and responsibilities of the relationship between the customer and the supplier that facilitate the framework are provided. The responsibility for the quality assessment procedure is shared between the customer and the supplier.

This Technical Specification is applicable to customers and suppliers of all geographic information where the quality of the product may be impacted upon by the supplier's processes in any of the following scenarios:

- there is an agreement or legislation for the supply of data acquisition services,
- data acquisition services are being tendered for, and
- one or more suppliers exist in the supply chain.

This Technical Specification is not applicable for the supply of legacy datasets or 'off the shelf' products where there is no further data production or update activity to manage.

2 Conformance

Any organization claiming conformance with this specification shall pass all of the requirements described in the abstract test suite presented 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 19157:—¹⁾, *Geographic information — Data quality*

4 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

1) To be published.