

AS/NZS ISO 19150.4:2020  
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Australian/New Zealand Standard™

# Geographic information — Ontology

Part 4: Service ontology



AS/NZS ISO 19150.4:2020

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- Australian Bureau of Meteorology
- Australian Maritime Safety Authority
- CSIRO
- Curtin University of Technology
- Department of Agriculture, Water and the Environment
- Department of Defence (Australian Government)
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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 document is to set a framework for geographic information service ontology and the description of geographic information Web services in Web Ontology Language (OWL).

OWL is the language adopted for ontologies.

This document makes use of service metadata (AS/NZS ISO 19115.1) and service definitions (AS ISO 19119) whenever appropriate.

This document does not define semantics operators, rules for ontologies, and does not develop any application ontology.

In relation to AS/NZS ISO 19101.1:2015, Clause 6.2, this document defines and formalizes the following purpose of the ISO geographic information reference model:

- (a) geographic information service components and their behaviour for data processing purposes over the Web, and
- (b) OWL ontologies to cast ISO/TC 211 standards to benefit from and support the Semantic Web.

In relation to AS/NZS ISO 19101.1:2015, Clause 8.3, this document addresses the Meta:Service foundation of the ISO geographic information reference model.

This document is identical with, and has been reproduced from, ISO 19150-4:2019, *Geographic information — Ontology — Part 4: Service ontology*.

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