

Australian/New Zealand Standard™

**Geographic information — Schema for
coverage geometry and functions**

**Part 2: Coverage
implementation schema**



AS/NZS ISO 19123.2:2019

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 27 March 2019 and by the New Zealand Standards Approval Board on 3 April 2019.

This Standard was published on 2 May 2019.

The following are represented on Committee IT-004:

- ANZLIC - the Spatial Information Council
- Australian Antarctic Division
- Australian Bureau of Meteorology
- Australian Bureau of Statistics
- Australian Maritime Safety Authority
- CSIRO
- Curtin University of Technology
- Department of Defence (Australian Government)
- Department of Human Services (Australian Government)
- Geoscience Australia
- Science New Zealand
- Spatial Industries Business Association
- University of Melbourne

This Standard was issued in draft form for comment as DR AS/NZS ISO 19123.2:2019.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76072 443 6

Australian/New Zealand Standard™

Geographic information — Schema for coverage geometry and functions

Part 2: Coverage implementation schema

First published as AS/NZS ISO 19123:2006.
Jointly revised and redesignated as AS/NZS ISO 19123.2:2019.

COPYRIGHT

© ISO 2019 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2019

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-004, Geographical Information/Geomatics, to supersede AS/NZS ISO 19123:2006, *Geographic information—Schema for coverage geometry and functions*.

The objective of this Standard is to specify a concrete, implementable, conformance-testable coverage structure based on the abstract schema for coverages defined in the AS/NZS ISO 19123 schema for coverage geometry. This Standard defines a structure that is suitable for encoding in many encoding formats.

This Standard is identical with, and has been reproduced from, ISO 19123-2:2018, *Geographic information — Schema for coverage geometry and functions — Part 2: Coverage implementation* schema.

As this document has been reproduced from an International Standard, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Preface	ii
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions, and abbreviated terms	1
3.1 Terms and definitions	1
3.2 Abbreviated terms	2
4 Conformance	2
5 Notation	3
5.1 Use of the term “coverage”	3
5.2 UML notation	3
5.3 Namespace prefix conventions	3
6 Coverage model	3
6.1 Coverage general	3
6.2 Overview	4
6.3 CoverageFunction	5
6.4 Metadata	5
6.5 RangeType	5
6.6 RangeSet coherence	7
6.7 Specific coverage types	7
6.7.1 Overview	7
6.7.2 Discrete Coverage	8
6.7.3 MultiPointCoverage	9
6.7.4 MultiCurveCoverage	9
6.7.5 MultiSurfaceCoverage	9
6.7.6 MultiSolidCoverage	10
6.7.7 GridCoverage	10
6.7.8 RectifiedGridCoverage	11
6.7.9 ReferenceableGridCoverage	11
6.8 Complete coverage example	11
7 GML representation requirements class	13
8 Multipart representation requirements class	13
8.1 Coverages as multipart messages	13
8.2 First part: GML coverage	14
8.3 Second part: encoded coverage range set	15
9 Special format requirements class	17
Annex A (normative) Abstract test suite	19
Bibliography	30

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-