INTERNATIONAL STANDARD

ISO 19157

First edition
2013-12-15

AMENDMENT 1
2018-01

Geographic information — Data quality

AMENDMENT 1: Describing data quality using coverages

Information géographique — Qualité des données

AMENDEMENT 1: Décrire la qualité des données en utilisant les couvertures

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c73e7-2b18-4b3c-a8de-136593b3b7c0/iso-19157-2013-amd-1-2018

Reference number
ISO 19157:2013/Amd.1:2018(E)

© ISO 2018

iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c73e7-2b18-4b3c-a8de-136593b3b7c0/iso-19157-2013-amd-1-2018

COPYRIGHT PROTECTED DOCUMENT

© ISO 2018, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

 © ISO 2018 – All rights reserved

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 211, *Geographic information/Geomatics.*

ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c73e7-2b18-4b3c-a8de-136593b3b7c0/iso-19157-2013-amd-1-2018

© ISO 2018 – All rights reserved

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c73e7-2b18-4b3c-a8de-136593b3b7c0/iso-19157-2013-amd-1-2018

Geographic information — Data quality

AMENDMENT 1: Describing data quality using coverages

Page 1, Clause 3

Delete normative reference:

ISO 19115-2:2009, *Geographic information — Metadata — Part 2: Extensions for imagery and gridded data*

Page 1, Clause 3

Change normative reference:

ISO/TS 19103:2005, *Geographic information — Conceptual schema language*

to

ISO 19103:2015, *Geographic information — Conceptual schema language*

in Clause 3 and in all other instances throughout the document, to reflect the new version.

Page 1, Clause 3

Change normative reference:

ISO 19135:2005, *Geographic information — Procedures for item registration*

to

ISO 19135-1:2015, *Geographic information — Procedures for item registration — Part 1: Fundamentals*

in Clause 3 and in all other instances throughout the document, to reflect the new version.

Page 5, 5.2

Delete:

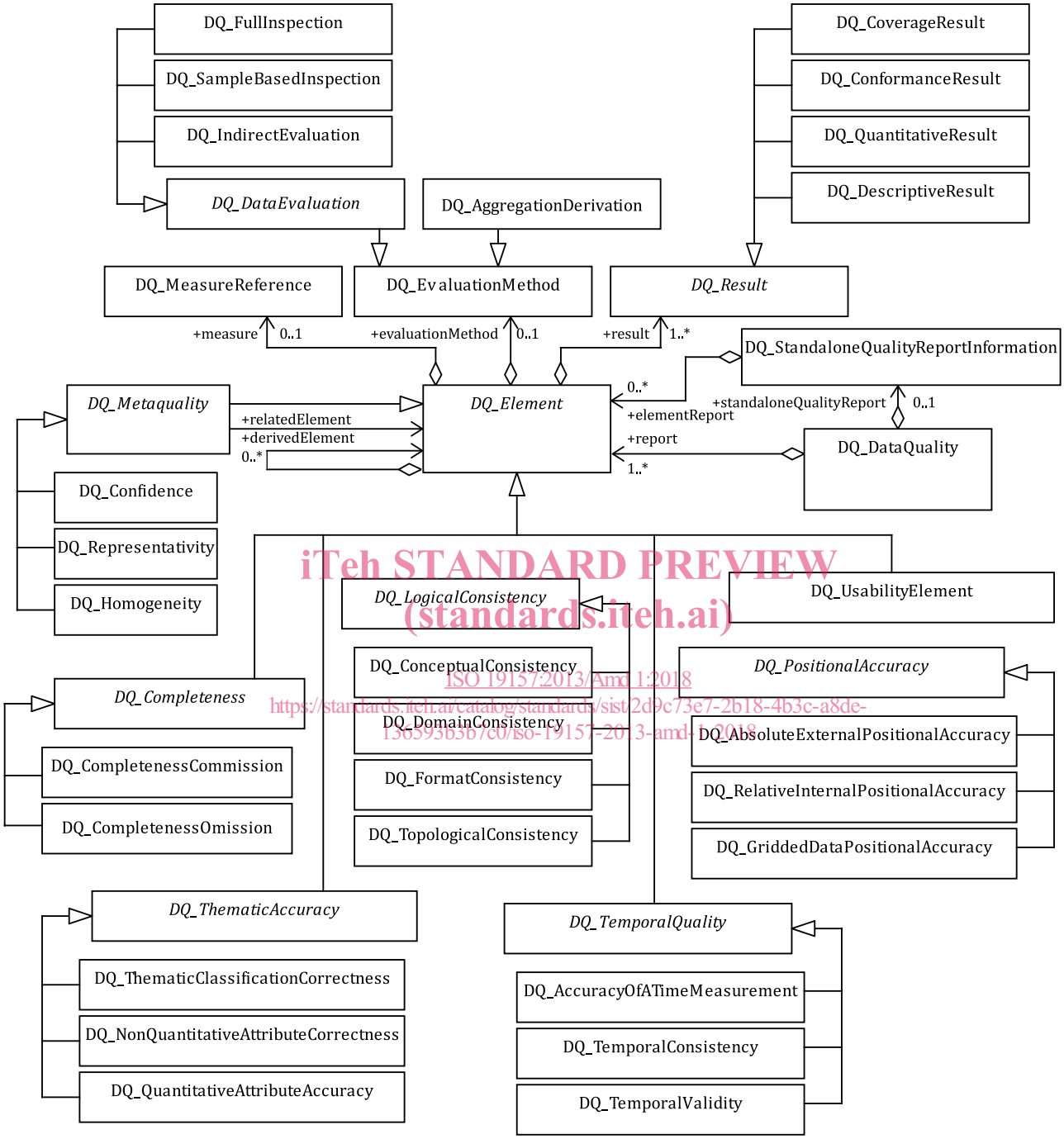
QE Quality Extended [ISO 19115-2:2009]

iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c73e7-2b18-4b3c-a8de-136593b3b7c0/iso-19157-2013-amd-1-2018

© ISO 2018 – All rights reserved

Page 7, 7.1

Replace Figure 2 with the following:



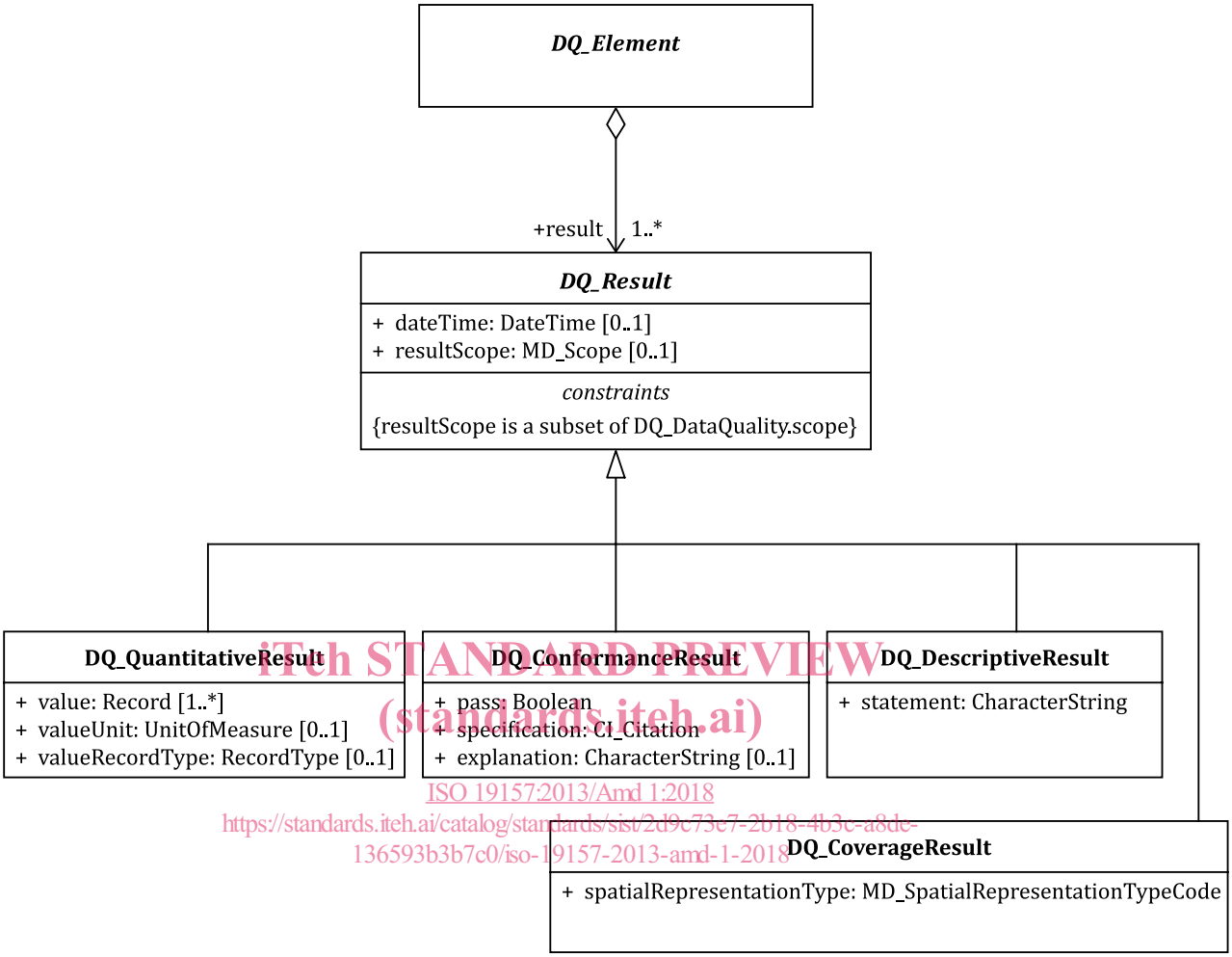
iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c73e7-2b18-4b3c-a8de-136393b3b7c0/iso-19157-2013-amd-1-2018

Figure 2 — Overview of the components of data quality

© ISO 2018 – All rights reserved

Page 13, 7.4.4

Replace Figure 8 with the following:



iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c73e7-2b18-4b3c-a8de-136593b3b7c0/iso-19157-2013-amd-1-2018

Figure 8 — Data quality result

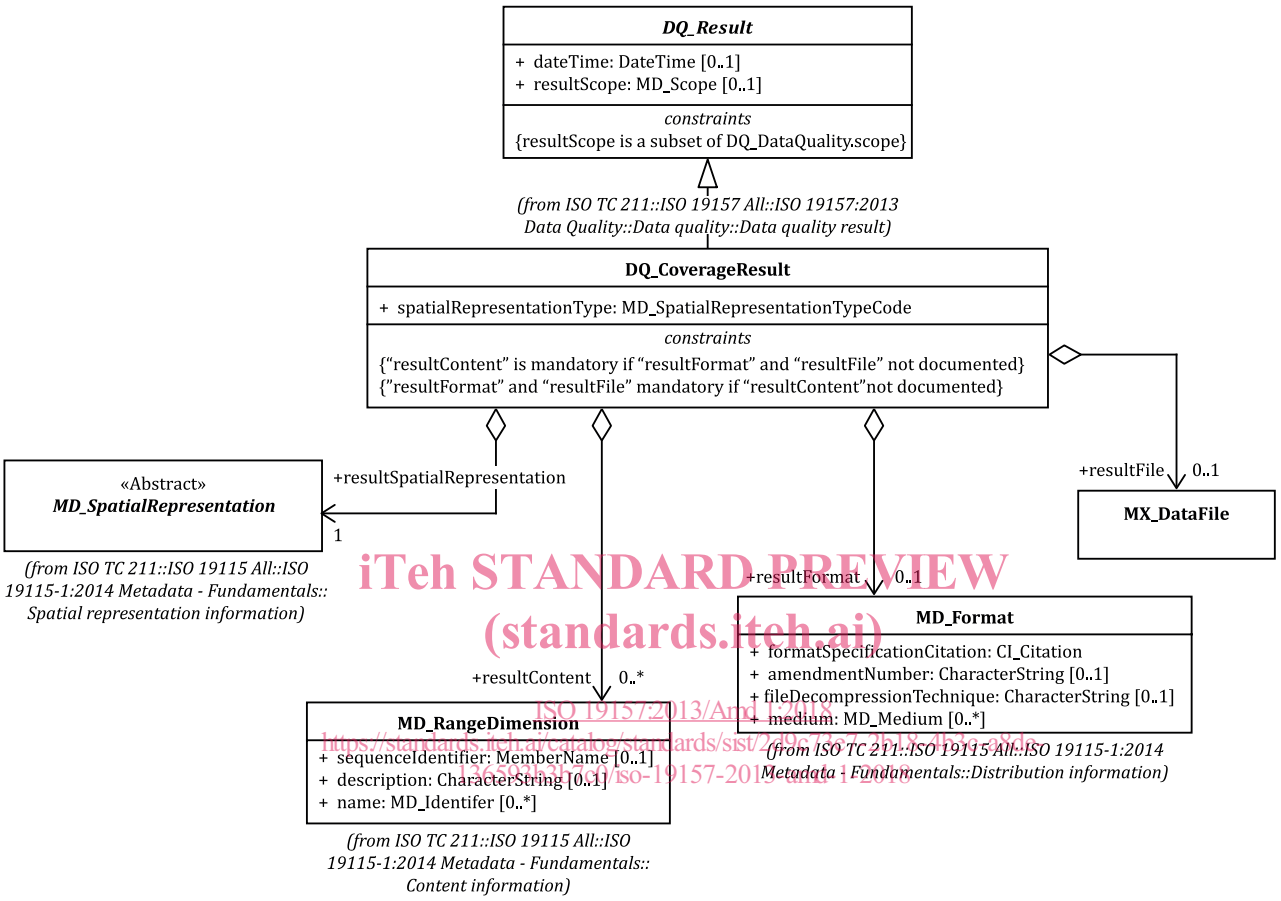
© ISO 2018 – All rights reserved

Page 14, 7.4.4.5

Replace 7.4.4.5 with the following:

7.4.4.5 Coverage result

A coverage result is the result of a data quality evaluation, organized as a coverage, see Figure 8.1.



iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9c1ba7-2b18-4b1a-a8de-136583b3b7e0/iso-19157-2013-amd-1-2018

Figure 8.1 — Coverage result

Page 23, 10.1, 1st paragraph

Replace 10.1, 1st paragraph with the following:

Data quality shall be reported as metadata in compliance with Clause 7, Clause 10, Annex C, and ISO 19115-1:2014.

Page 26, A.3 a)

Replace A.3 a), with the following:

a) Test purpose: To verify that the data quality metadata is reported in conformance with ISO 19115-1:2014.

© ISO 2018 – All rights reserved

Pages 42, 43 and 44, C.2.1.5

Replace Table C.5 with the following:

Table C.5 — Data quality result

	Name/Role Name	Definition	Obligation/ Condition	Maximum occurrence	Data type	Domain
56.	*DQ_Result*	Generalization of more specific result classes	Use obligation from referencing object	Use maximum occurrence from referencing object	Class < <Abstract> >	Line 57–58
57.	resultScope	Scope of the result	O	1	Class	MD_Scope (ISO 19115-1)
58.	dateTime	Date when the result was generated	O	1	Class	DateTime (see ISO 19103:2015)
59.	DQ_Conform-anceResult	Information about the outcome of evaluating the obtained value (or set of values) against a specified acceptable conformance quality level	Use obligation from referencing object	Use maximum occurrence from referencing object	Specified Class (DQ_Result)	Lines 60–62 and 57–58
60.	specification	Citation of product specification or user requirement against which data are being evaluated	M	1	Class	CI_Citation < <DataType> > (see ISO 19115-1:2014, B.3.2.1)
61.	explanation	Explanation of the meaning of conformance for this result	O	1	Character-String	Free text
62.	pass	Indication of the conformance result where 0 = fail and 1 = pass	M	1	Boolean	1 = yes 0 = no
63.	DQ_Quantitati-veResult	The values or information about the value(s) (or set of values) obtained from applying a data quality measure	Use obligation from referencing object	Use maximum occurrence from referencing object	Specified Class (DQ_Result)	Lines 64–66 and 57–58
64.	value	Quantitative value or values, content determined by the evaluation procedure used, accordingly with the value type and valueStructure defined for the measure	M	N	Class	Record (see ISO 19103:2015)

iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO 19157:2013/Amd 1:2018
https://standards.iteh.ai/catalog/standards/sist/2d9e73e7-2b18-4b3e-a8de-136593b3b7c0/iso-19157-2013-amd-1-2018

© ISO 2018 – All rights reserved