

Second edition
2019-01

AMENDMENT 1
2022-03

**Geographic information —
Metadata —**

Part 2:
**Extensions for acquisition and
processing**

AMENDMENT 1

*Information géographique — Métadonnées —
Partie 2: Extensions pour l'acquisition et le traitement
AMENDEMENT 1*



Reference number
ISO 19115-2:2019/Amd.1:2022(E)

© ISO 2022

STANDARDSISO.COM : Click to view the full PDF of ISO 19115-2:2019/Amd 1:2022



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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 of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 211, *Geographic information/Geomatics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 287, *Geographic Information*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 19115 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

STANDARDSISO.COM : Click to view the full PDF of ISO 19115-2:2019/Amd 1:2022

Geographic information — Metadata —

Part 2:

Extensions for acquisition and processing

AMENDMENT 1

B.2, Table B.4

Replace Table B.4 with the following:

STANDARDSISO.COM : Click to view the full PDF of ISO 19115-2:2019/Amd 1:2022

Table B.4 — Instrument identification

| Name | Definition | Obligation | Maximum occurrence | Data type | Domain |
|----------------------|---|--|--|--------------------------------|--|
| MI_Instrument | characteristics of the measuring instrument | Use obligation from referencing object | Use maximum occurrence from referencing object | Aggregated Class (MI_Platform) | Lines 20 to 28 |
| citation | complete citation of the instrument | 0 | N | Class | <<DataType> > CI_Citation (ISO 19115-1:2014, Table B.16) |
| identifier | unique identification of the instrument | M | 1 | Class | <<DataType> > MD_Identifier (ISO 19115-1:2014, Table B.17.2) |
| type | name of the type of instrument Examples: framing, line-scan, push-broom, pan-frame | M | 1 | CharacterString | Free text |
| description | textual description of the instrument | 0 | 1 | CharacterString | Free text |
| otherProperty | instance of other property type not included in MI_Instrument | C/ otherPropertyType exists | 1 | Class | Record (ISO 19103) |
| otherPropertyType | type of other property description | C/otherPropertyType exists | 1 | Class | RecordType (ISO 19103) |
| Role name: mountedOn | platform on which the instrument is mounted | 0 | 1 | Association | MI_Platform (Table B.9) |
| Role name: sensor | instrument has a sensor | 0 | N | Association | MI_Sensor (Table B.4) |
| Role name: history | list of events associated with instrument | 0 | N | Association | MI_InstrumentationEventList (Table B.13) |

NOTE The UML model for this table is shown in Figure 3.

Table B.4 (continued)

| Name | Definition | Obligation | Maximum occurrence | Data type | Domain |
|---------------------------------|--|--|--|---------------------------------|---------------------------|
| 29. MI_Sensor | specific type of instrument | Use obligation from referencing object | Use maximum occurrence from referencing object | Specified class (MI_Instrument) | Line 20–28 and 30 |
| 30. <i>Role name:</i> hosted | instrument on which the sensor is hosted | 0 | N | Association | MI_Instrument (Table B.4) |

NOTE The UML model for this table is shown in Figure 3.

STANDARDS ISO.COM: Click to view the full PDF of ISO 19115-2:2019/Amd 1:2022

B.2, Table B.9

Replace Table B.9 with the following:

STANDARDSISO.COM : Click to view the full PDF of ISO 19115-2:2019/Amd 1:2022

Table B.9 — Platform identification

| | Name | Definition | Obligation | Maximum occurrence | Data type | Domain |
|------|-----------------------|---|--|--|---|---|
| 69. | MI_Platform | designation of the platform used to acquire the data set | Use obligation from referencing object | Use maximum occurrence from referencing object | Aggregated Class (MI_Acquisition Information, MI_Operation) | Lines 70 to 76 |
| 70. | citation | source where information about the platform(s) described | 0 | 1 | Class | < <DataType> > CI_Citation (ISO 19115-1:2014, Table B.1.6) |
| 71. | identifier | unique identification of the platform | M | 1 | Class | < <DataType> > MD_Identifier (ISO 19115-1:2014, Table B.17.2) |
| 72. | description | narrative description of the platform supporting the instrument | M | 1 | CharacterString | Free text |
| 73. | sponsor | organization responsible for building, launch, or operation of the platform | 0 | N | Class | < <DataType> > CI_Responsibility (ISO 19115-1:2014, Table 16.1) |
| 74. | otherProperty | instance of other property type not included in MI_Sensor | 0 | 1 | Class | Record (ISO 19103) |
| 75. | otherPropertyType | type of other property description | 0 | 1 | Class | RecordType (ISO 19103) |
| 76. | Role name: instrument | instrument(s) mounted on a platform | M | N | Association | MI_Instrument (Table B.4) |
| 76.1 | Role name: history | list of events affecting a platform | 0 | N | Association | MI_InstrumentationEventList (Table B.13) |

B.2, Table B.18

Replace Table B.18 with the following:

STANDARDSISO.COM : Click to view the full PDF of ISO 19115-2:2019/Amd 1:2022

Table B.18 — Processing

| Name | Definition | Obligation | Maximum occurrence | Data type | Domain |
|----------------------------|--|--|--|-----------------------------------|---|
| 115. LE_Processing | comprehensive information about the procedure(s), process(es) and algorithm(s) applied in the process step | Use obligation from referencing object | Use maximum occurrence from referencing object | Aggregated Class (LE_ProcessStep) | Lines 116 to 123 |
| 116. identifier | information to identify the processing package that produced the data | M | 1 | Class | <<DataType> > MD_Identifier (ISO 19115-1:2014, Table B.17.2) |
| 117. softwareReference | reference to document describing processing software | 0 | N | Class | <<DataType> > CI_Citation (ISO 19115-1:2014, Table B.16) |
| 118. procedureDescription | additional details about the processing procedures | 0 | 1 | CharacterString | Free text |
| 119. documentation | reference to documentation describing the processing | 0 | N | Class | <<DataType> > CI_Citation (ISO 19115-1:2014, Table B.16) |
| 120. runTimeParameters | parameters to control the processing operations, entered at run time | 0 | 1 | CharacterString | Free text |
| 121. otherProperty | instance of other property type not included in processing | 0 | 1 | Class | Record (ISO 19103) |
| 122. otherPropertyType | type of other property description | 0 | 1 | Class | RecordType (ISO 19103) |
| 123. Role name: algorithm | details of the methodology by which geographic information was derived from the instrument readings | 0 | N | Association | LE_Algorithm (Table B.16) |
| 123.1 Role name: parameter | parameter(s) used in a process | 0 | N | Association | LE_ProcessParameter (Table B.19) |

NOTE The UML model for this table is shown in Figure 4.

B.3, Table B.32

Replace Table B.32 with the following:

Table B.32 — MI_EventTypeCode < <CodeList> >

| | Concept name (English) | Code | Definition |
|-----|-------------------------------|------------------------------|--|
| | MI_EventTypeCode | | type of event related to platform/ instrument/sensor |
| 1. | announcement | announcement | announcement about future events relevant to the platform/instrument/sensor |
| 2. | calibration | calibration | calibration event for the platform/instrument/sensor |
| 3. | calibrationCoefficientUpdate | calibrationCoefficientUpdate | update of calibration information for the platform/instrument/sensor |
| 4. | dataLoss | dataLoss | event related to data loss |
| 5. | fatal | fatal | event that renders the platform/instrument/sensor unusable |
| 6. | manoeuvre | manoeuvre | event related to a manoeuvre of the platform/instrument/sensor |
| 7. | missingData | missingData | event related to missing data from the platform/instrument/sensor |
| 8. | notice | notice | notice about events related to the platform/instrument/sensor |
| 9. | prelaunch | prelaunch | event related to prelaunch period for the platform/instrument/sensor |
| 10. | severe | severe | event with significant impact on the performance of the platform/instrument/sensor |
| 11. | switchOff | switchOff | event related to switching off platform/instrument/sensor |
| 12. | switchOn | switchOn | event related to switching on platform/instrument/sensor |
| 13. | clean | clean | event related to cleaning the platform/instrument/sensor |