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**Information technology — Metadata  
registries (MDR) —**

**Part 32:  
Metamodel for concept system  
registration**

*Technologies de l'information — Registres de métadonnées (RM) —  
Partie 32: Métamodèle pour l'enregistrement de systèmes de concepts*



Reference number  
ISO/IEC 11179-32:2023(E)

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# Contents

	Page
Foreword.....	vii
Introduction.....	viii
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions.....</b>	<b>1</b>
<b>4 Abbreviated terms.....</b>	<b>4</b>
<b>5 Conformance.....</b>	<b>5</b>
5.1 Overview of conformance.....	5
5.2 Degree of conformance.....	5
5.2.1 General.....	5
5.2.2 Strictly conforming implementations.....	5
5.2.3 Conforming implementations.....	6
5.3 Conformance by feature.....	6
5.4 Registry conformance.....	6
5.4.1 Standard registry profiles.....	6
5.4.2 Conformance labels.....	6
5.5 Implementation conformance statement (ICS).....	7
5.6 Obligation.....	7
<b>6 Relationship to ISO/IEC 11179-3.....</b>	<b>7</b>
6.1 Metamodel for a metadata registry.....	7
6.2 Specification of the metamodel.....	7
6.3 Use of UML Class diagrams and textual description.....	8
6.4 Package dependencies.....	8
6.5 Subclassing the Constraint_Set class.....	9
6.6 Relationship to Classification region in ISO/IEC 11179-3:2023.....	9
<b>7 Concept_System package.....</b>	<b>9</b>
7.1 Overview of the Concept_System package.....	9
7.2 Concept System metamodel region.....	9
7.2.1 Overview.....	9
7.2.2 Classes in the Concept System metamodel region.....	10
7.2.3 Associations of the Concept System metamodel region.....	18
<b>8 Binary_Relations package.....</b>	<b>21</b>
8.1 Overview of Binary_Relations package.....	21
8.2 Binary Relations metamodel region.....	21
8.2.1 Overview.....	21
8.2.2 Classes in the Binary Relations metamodel region.....	21
8.2.3 Datatypes in the Binary_Relation metamodel region.....	22
<b>Annex A (informative) Consolidated Class Hierarchy.....</b>	<b>24</b>
<b>Annex B (informative) Concept System Examples.....</b>	<b>25</b>
<b>Annex C (informative) Mapping ISO/IEC 11179-3:2023 Classification_Scheme to ISO/IEC 11179-32:2023 Concept_System.....</b>	<b>54</b>
<b>Bibliography.....</b>	<b>55</b>

## List of Figures

<b>Figure 1 — Package dependencies</b> .....	<b>8</b>
<b>Figure 2 — Subclassing Constraint_Set</b> .....	<b>9</b>
<b>Figure 3 — Concept system metamodel region</b> .....	<b>10</b>
<b>Figure 4 — Binary Relations metamodel region</b> .....	<b>21</b>
<b>Figure A.1 — Consolidated Class Hierarchy</b> .....	<b>24</b>
<b>Figure B.1 — Car Registration Model in ORM</b> .....	<b>30</b>
<b>Figure B.2 — Car Registration Ontology in OWL</b> .....	<b>39</b>

## List of Tables

<b>Table 1 — Attributes of Concept_System</b> .....	<b>12</b>
<b>Table 2 — Attributes of Relation</b> .....	<b>13</b>
<b>Table 3 — Attributes of Relation_Role</b> .....	<b>13</b>
<b>Table 4 — Attributes of Assertion</b> .....	<b>14</b>
<b>Table 5 — Attributes of Concept_Constraint_Set</b> .....	<b>16</b>
<b>Table 6 — Attributes of Relation_Constraint_Set</b> .....	<b>17</b>
<b>Table 7 — Examples of binary relations and their characterization</b> .....	<b>22</b>
<b>Table 8 — Attributes of Binary_Relation</b> .....	<b>22</b>
<b>Table 9 — Values of Reflexivity enumeration</b> .....	<b>22</b>
<b>Table 10 — Values of Symmetry enumeration</b> .....	<b>23</b>
<b>Table 11 — Values of Reflexivity enumeration</b> .....	<b>23</b>
<b>Table B.1 — Correspondences of ISO/IEC 11179-32 concept system metamodel to selected notations</b> .....	<b>25</b>
<b>Table B.2 — SKOS-CORE as an ISO/IEC 11179-32 Concept System</b> .....	<b>26</b>
<b>Table B.3 — SKOS relations as ISO/IEC 11179-32 Binary Relations</b> .....	<b>26</b>
<b>Table B.4 — SKOS Thesaurus example — ISO/IEC 11179-32 Concept System</b> .....	<b>27</b>
<b>Table B.5 — SKOS Thesaurus Example — ISO/IEC 11179-32 Concepts</b> .....	<b>27</b>
<b>Table B.6 — SKOS Thesaurus Example — ISO/IEC 11179-32 Links</b> .....	<b>27</b>
<b>Table B.7 — SKOS Thesaurus Example — ISO/IEC 11179-31 Conceptual Domains</b> .....	<b>28</b>
<b>Table B.8 — SKOS Thesaurus Example — ISO/IEC 11179-31 Value Domains</b> .....	<b>28</b>
<b>Table B.9 — ORM as an ISO/IEC 11179-32 Concept System</b> .....	<b>29</b>
<b>Table B.10 — ORM Relations as ISO/IEC 11179-32 Binary Relations</b> .....	<b>29</b>
<b>Table B.11 — ORM Roles as ISO/IEC 11179-32 Relation Roles</b> .....	<b>29</b>
<b>Table B.12 — Car Registration Model in ORM — ISO/IEC 11179-32 Concept System</b> .....	<b>32</b>
<b>Table B.13 — Car Registration Model in ORM — ISO/IEC 11179-32 Concepts</b> .....	<b>32</b>
<b>Table B.14 — Car Registration Model in ORM — ISO/IEC 11179-32 Binary Relations</b> .....	<b>32</b>
<b>Table B.15 — Car Registration Model in ORM — ISO/IEC 11179-32 Links</b> .....	<b>33</b>
<b>Table B.16 — OWL constructs with directly corresponding ISO/IEC 11179-32 metamodel elements</b> .....	<b>34</b>
<b>Table B.17 — OWL built-in constructs described in OWL metamodel</b> .....	<b>34</b>
<b>Table B.18 — OWL as an ISO/IEC 11179-32 Concept System</b> .....	<b>35</b>
<b>Table B.19 — OWL Concepts as ISO/IEC 11179-32 Concepts</b> .....	<b>35</b>
<b>Table B.20 — OWL Binary Relations as ISO/IEC 11179-32 Binary Relations</b> .....	<b>35</b>
<b>Table B.21 — OWL Relations (except Binary Relations) as ISO/IEC 11179-32 Relations</b> .....	<b>36</b>
<b>Table B.22 — OWL Constructs as ISO/IEC 11179-32 Relation Roles</b> .....	<b>36</b>
<b>Table B.23 — OWL Constructs as ISO/IEC 11179-32 Links</b> .....	<b>37</b>
<b>Table B.24 — Car Registration Model in OWL — ISO/IEC 11179-32 Concept System</b> .....	<b>43</b>
<b>Table B.25 — Car Registration Model in OWL — ISO/IEC 11179-32 Concepts</b> .....	<b>43</b>

<b>Table B.26 — Car Registration Model in OWL — ISO/IEC 11179-32 Binary Relations</b> .....	<b>43</b>
<b>Table B.27 — Car Registration Model in OWL — ISO/IEC 11179-32 Relation Roles</b> .....	<b>44</b>
<b>Table B.28 — Car Registration Model in OWL — ISO/IEC 11179-32 Links</b> .....	<b>44</b>
<b>Table B.29 — Car Registration Model in OWL — ISO/IEC 11179-32 Assertions</b> .....	<b>48</b>
<b>Table B.30 — CL Metamodel - ISO/IEC 11179-32 Concept System</b> .....	<b>51</b>
<b>Table B.31 — CL Metamodel - ISO/IEC 11179-32 Binary Relations</b> .....	<b>51</b>
<b>Table B.32 — CLIF Units Example — ISO/IEC 11179-32 Concept System</b> .....	<b>51</b>
<b>Table B.33 — CLIF Units Example — ISO/IEC 11179-32 Concepts</b> .....	<b>52</b>
<b>Table B.34 — CLIF Units Example — ISO/IEC 11179-32 Binary Relations</b> .....	<b>52</b>
<b>Table B.35 — CLIF Units Example — ISO/IEC 11179-32 Relations Roles</b> .....	<b>52</b>
<b>Table B.36 — CLIF Units Example — ISO/IEC 11179-32 Links</b> .....	<b>52</b>
<b>Table B.37 — CLIF Units Example — ISO/IEC 11179-32 Assertions</b> .....	<b>53</b>
<b>Table C.1 — Summary view of the mapping of Classification_Scheme to Concept_System</b> .....	<b>54</b>

## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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This document was prepared by Joint Technical Committee ISO/IEC/JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

A list of all parts in the ISO/IEC 11179 series can be found on the ISO and IEC websites.

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](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

## Introduction

ISO/IEC 11179-3 specifies the structure of a Metadata Registry (MDR) and provides a metamodel for registry common facilities. That metamodel is intended to be extended by other parts of ISO/IEC 11179 for specific purposes.

This first edition of ISO/IEC 11179-32, is part of a restructuring of ISO/IEC 11179-3:2013, which has now been broken into multiple parts. This document provides a metamodel for registering metadata about concept systems and binary relations in a Metadata Registry (MDR), as extensions to the registry metamodel specified in ISO/IEC 11179-3.

In [Clauses 7](#) and [8](#), this document uses:

- **bold** font to highlight terms which represent metadata objects specified by the metamodel;
- normal text for terms which represent concepts defined in [Clause 3](#).

EXAMPLE     **Concept** ([7.2.2.1](#)) is a class each instance of which models a concept.



# Information technology — Metadata registries (MDR) —

## Part 32:

# Metamodel for concept system registration

## 1 Scope

This document provides a specification for an extension to a metadata registry (MDR), as specified in ISO/IEC 11179-3:2023, in which metadata that describes concept systems can be registered.

The specification in this document, together with the relevant clauses of the specification in ISO/IEC 11179-3, provides the ability to record the following metadata:

- concept systems and associated concepts;
- relations among concepts in a concept system;
- assertions about concepts in a concept system.

The metamodel in this document is intended to support the full description of a concept system, including ontologies.

Where there is a requirement to register an ontology where the details are defined elsewhere, consider using ISO/IEC 19763-3<sup>[8]</sup> instead.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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/IEC 11179-3:2023, *Information technology — Metadata registries (MDR) — Part 3: Metamodel for registry common facilities*