

ISO/IEC 11179-33:2023-01 (E)

Information technology - Metadata registries (MDR) - Part 33: Metamodel for data set registration

Contents		Page
Foreword		vi
Introduction		vii
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Abbreviated terms	3
5	Conformance	4
5.1	Overview of conformance	4
5.2	Degree of conformance	4
5.2.1	General	4
5.2.2	Strictly conforming implementations	4
5.2.3	Conforming implementations	4
5.3	Conformance by feature	5
5.4	Registry conformance	5
5.4.1	Standard registry profiles	5
5.4.2	Conformance labels	5
5.5	Implementation conformance statement (ICS)	5
5.6	Obligation	6
6	Relationship to ISO/IEC 11179-3:2023	6
6.1	Metamodel for a metadata registry	6
6.2	Specification of the metamodel	6
6.3	Use of UML Class diagrams and textual description	6
6.4	Package dependencies	7
7	Data_Set package	8
7.1	Overview of the Data_Set package	8
7.2	Data_Set metamodel region	8
7.2.1	Overview of the Data_Set metamodel region	8
7.2.2	Classes in the Data_Set metamodel region	8
7.2.3	Associations in the Data_Set metamodel region	18
7.2.4	Datatypes in the Data_Set metamodel region	21
Annex A (informative)	Consolidated Class Hierarchy	22
Annex B (informative)	Examples of data set registration	23
Annex C (informative)	A complete view of the concept of “provenance”	30
Bibliography		32

List of Figures

Figure 1	Package dependencies	7
Figure 2	Data_Set metamodel region	8
Figure A.1	Consolidated Class Hierarchy	22
Figure B.1	Registration of the ‘Air Quality’ example data set	26
Figure B.2	Registration of the full ‘World War II Era Weather Data’ data set	28
Figure B.3	Registration of the decomposition of the ‘World War II Era Weather Data’ to show the data for snowfall at weather station16407 on 5 December 1943	29