

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