

ISO/IEC 19583-27:2025-12 (E)

Information technology - Concepts and usage of metadata - Part 27: Mapping between metamodel for computable data registration and bioinformatics analyses by high-throughput sequencing (HTS)

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Abbreviated terms	2
5	Mapping overview	2
5.1	General	2
5.2	Mapping mechanism	2
5.3	Data transformation	3
6	S2M Mapping and data transformation requirements	3
6.1	S2M Mapping requirements	3
6.2	Data transformation Requirements	9
6.2.1	Overview	9
6.2.2	Data transformation related to the IEEE 2791 object	10
6.2.3	Data transformation related to the spec_version	10
6.2.4	Data transformation related to the provenance_domain.review.status	10
6.2.5	Data transformation related to the provenance_domain.contributors	10
6.2.6	Data transformation related to the extension_domain	10
6.2.7	Data transformation related to the description_domain.xref	10
6.2.8	Data transformation related to the description_domain.pipeline_steps	11
6.2.9	Data transformation related to the parametric_domain.step	11
6.2.10	Data transformation related to the io_domain.input_subdomain, io_domain.output_subdomain, description_domain.pipeline_steps.input_list, and description_domain.pipeline_steps.output_list	11
6.2.11	Data transformation related to the error_domain	11
7	M2S Mapping and data transformation requirements	11
7.1	M2S Mapping requirements	11
7.2	Data transformation requirements	16
7.2.1	Overview	16
7.2.2	MDR implementation requirements	16
7.2.3	Data transformation related to the Computable_Data	17
7.2.4	Data transformation related to the Supporting_Document	17
7.2.5	Data transformation related to the Computable_Data_Error	17
7.2.6	Data transformation related to the Input_Output_Data	18
7.2.7	Data transformation related to the Contributor.contributor_contribution and Review.reviewer_contribution	18
Annex A (informative)	Examples of transforming IEEE 2791 objects into ISO/IEC 11179-34 computable data	19

Annex B (informative) Example of producing an IEEE 2791 object from ISO/IEC 11179-34 computable data	41
Bibliography	50