
**Health informatics — Information
models — Biomedical Research
Integrated Domain Group (BRIDG)
Model**

*Informatique de santé — Modèle d'information — Modèle de groupe
de domaine intégré de recherche biomédicale (BRIDG)*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Overview of conceptual representations of the BRIDG model	2
6 UML-based canonical representations	4
6.1 General considerations	4
6.2 Sub-domain UML views	4
6.2.1 Common	4
6.2.2 Adverse event	4
6.2.3 Protocol representation	4
6.2.4 Regulatory	4
6.2.5 Statistical analysis	5
6.2.6 Study conduct	5
6.3 UML-based models and views	5
7 RIM-based HL7 representation	5
7.1 General considerations	5
7.2 RIM-based models	6
8 Ontological OWL-based representation	7
9 Other additional information	7
9.1 Uses of BRIDG	7
9.2 User's guide for the BRIDG model	7
9.3 Release notes	7
9.4 BRIDG maintenance process	7
9.5 BRIDG change list	7
Bibliography	8

Foreword

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The committee responsible for this document is ISO/TC 215, *Health informatics*.

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Introduction

The Biomedical Research Integrated Domain Group (BRIDG) model was developed in response to a growing global demand for solutions to help enhance the opportunities to more closely integrate medical research information with healthcare, as well as integrate information within medical research. Currently, clinical research data processes use a variety of meanings, formats, and data types that inhibit the ability and potential to more widely share, integrate, and disseminate clinical research data resulting in slowing, and in many cases, dead-ending, promising drug discovery and development processes. Vast bodies of medical knowledge data either do not exist in an electronic format that is useful for today's dynamic decision support systems or are electronic, but are locked into discrete proprietary systems. Once freed, information that is locked away in static documents and discrete databases is able to flow through the processes of medical research. In an ideal world, critical data could be read, accessed, and aggregated by any tool at any point in the process. The tools would become the effective means of communication crossing all the existing boundaries and would enable automation of many procedures that currently take place manually. Removing the time-consuming procedure of translating and transcribing data contained in dissimilar and proprietary information stores would allow scientists to focus on science and innovation.

In order for all of this to become reality, medical research data need to be machine-readable and semantically interoperable.

The BRIDG model provides an approach to remove semantic ambiguities present in the world of medical research. As a domain analysis model (DAM), BRIDG is intended to represent a shared view of the semantics of the domain of protocol-driven research and its associated regulatory artefacts. The need for this International Standard came as a result of various projects which contributed to its semantic content. These source projects are documented in the model through the use of tags in each class and attribute (and many an association as well). These tags indicate the source project elements from which the concept was derived or to which the element maps.

More information about the projects contributing to the BRIDG content can be found in the BRIDG user's guide in the section entitled "Projects Contributing to the BRIDG Model" and in the BRIDG mapping spreadsheet (available at: <http://www.cdisc.org>).