

BS ISO 16354:2013



BSI Standards Publication

Guidelines for knowledge libraries and object libraries

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National foreword

This British Standard is the UK implementation of ISO 16354:2013.

This standard provides a consistent and rigorous approach to the topic of object libraries. It is a resource for those involved in strategic questions of inter operability, linking and mapping. As demand arises for interoperability between process plant, civil engineering and building libraries, the discussion will be supported by its definitive set of reference terms and functional units that are outside of any particular domain.

The principles in this standard have been implemented by the UK construction industry with the development of the BS 8541 "Library objects for architecture, engineering and construction" series to standardize how library objects should be prepared and how their quality can be assessed. BS 8541 is published in four parts:

- Part 1: Identification and classification. Code of practice
- Part 2: Recommended 2D symbols of building elements for use in building information modelling
- Part 3: Shape and measurement. Code of practice
- Part 4: Attributes for specification and assessment. Code of practice

The following is a summary of the Parts of BS 8541 series and how they use the main functional units defined in ISO 16354 paragraph 5.3:

- Parts 1, 3 and 4 use ISO/DIS 16739 (as extended up to IFC4) and COBie as resources for their "Vocabulary" (5.3.1) and "Dictionary" (5.3.2) functional units.
- Part 1 documents the "Taxonomy" (5.3.3) and "Collection" (5.3.6) functional units.
- Part 2 documents the 2D symbology "Aspect model" (5.3.4) functional unit
- Part 3 documents the measurement and 3D shape as two "Aspect models" (5.3.4) functional units.
- Part 4 documents the specification and assessment as two "Aspect models" (5.3.4) functional unit.
- A future Part to BS 8541 may cover assemblies as "Composition models" (5.3.6) functional units.

The UK participation in its preparation was entrusted to Technical Committee B/555, Construction design, modelling and data exchange.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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