

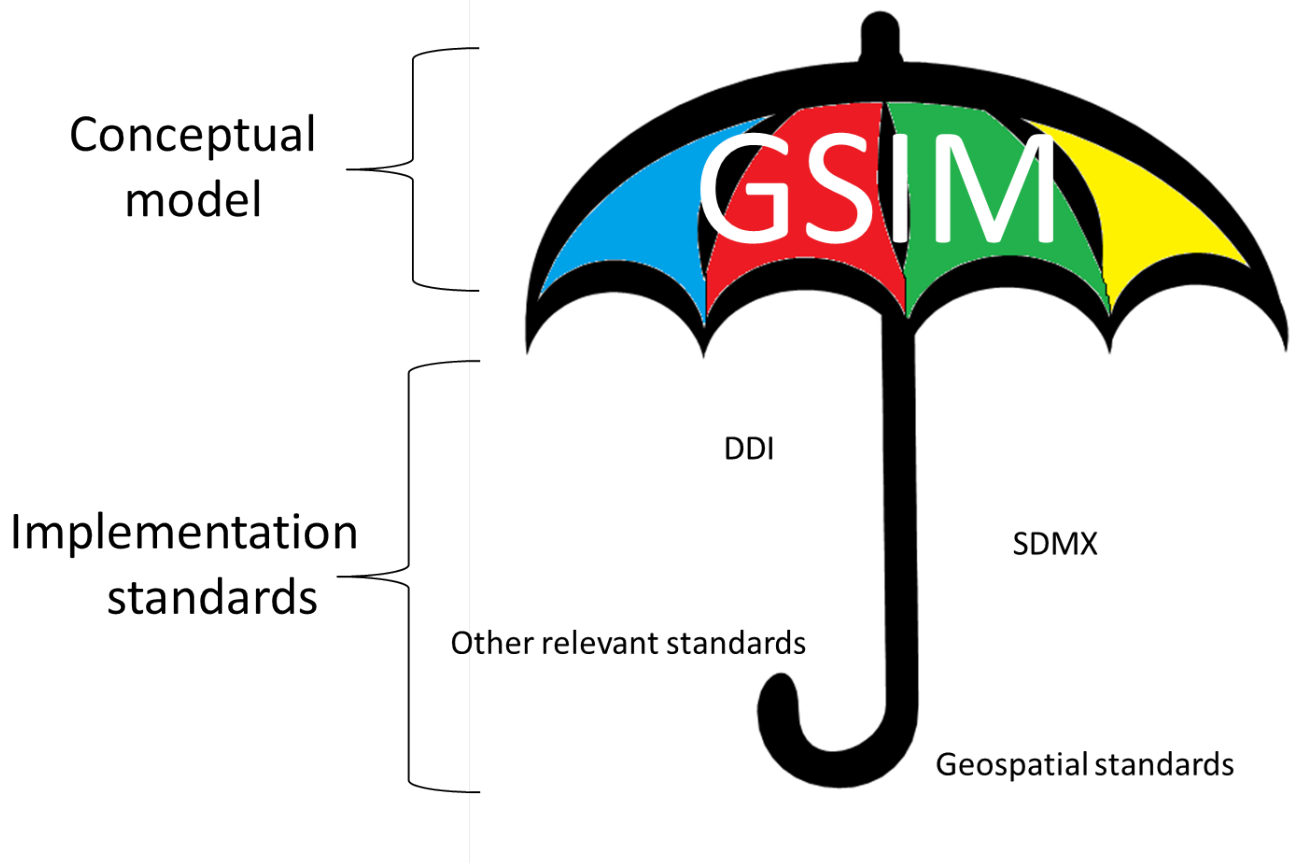
GSIM and standards

GSIM and other standards

In order to effectively implement GSIM at a technical level, it should be implemented at a business level first. GSIM does not provide any standard representation of its own, and is intended to be implemented using existing external standards and models, which support technical implementation. This may involve mapping to internal data models or implementation standards used within an organization.

Organizations implementing GSIM will need to map the GSIM objects against their implementation models. In doing this, gaps between GSIM and the implementation standards or internal models will need to be identified. Mappings of GSIM to an organization's internal models can be shared with the community via the Global Artefact Catalogue (to be developed in 2014).

For some common standard models, GSIM mappings have been provided. The design of GSIM takes into account the possibility to map to implementation models, such as SDMX or DDI. Such a mapping can be used to establish a link between GSIM and its technical implementation.



Mapping DDI to GSIM (see also [DDI Profiles](#))

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|------------------------|-----|
| Object | DDI |
| Administrative Details | -- |

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|----------------------------|--|
| Administrative Register | CollectionEvent [this can describe an intended event rather than a past event] 3.2 contains instrument reference |
| Agent | -- |
| Agent Role | Organization/Individual referenced from a specific role within an activity [more extensive in 3.2 in terms of coverage] |
| Assessment | Other material of type assessment [3.2 QualityStatementReference found at different points to point to Quality assessment standards or processes employed] |
| Attribute Component | 3.1 Variable/Representation/Role (simple string) [3.2 UserAttributePair (to create key value pair on any versionable/maintainable object)] (controlled vocabulary) |
| Business Case | Other Material [3.2 Legal requirements, Authorization Source] |
| Business Function | No mapping |
| Business Process | No mapping |
| Business Service | No mapping |
| Category | No mapping |
| Category Item | Category |
| Category Set | CategoryScheme |
| Change Definition | No mapping |
| Classification Family | No direct mapping |
| Classification Index | No direct mapping |
| Classification Index Entry | No direct mapping |
| Classification Item | No direct mapping |
| Classification Series | No direct mapping |
| Code | No Mapping |
| Code Item | Code |
| Code List | CodeScheme [3.2 CodeList] |
| Code Value | Code/Value |
| Concept | Concept |
| Concept System | Partial mapping ConceptScheme |
| Conceptual Domain | No mapping |
| Correspondence Table | No direct mapping |
| Data Point | Data Item |

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|------------------------------|---|
| Data Resource | Archive/Collection |
| Data Set | PhysicalInstance |
| Data Structure | LogicalProduct or NcubeLogicalProduct [3.2 LogicalProduct] |
| Data Structure Component | |
| Datum | Item value/value |
| Described Conceptual Domain | No mapping |
| Described Value Domain | Text Numeric and Datetime representation |
| Designation | No mapping |
| Dimensional Data Point | Inline, Normal and Tabular NCube/ Data Item DataItem (Inline, Normal, Tabular) |
| Dimensional Data Set | PhysicalDataProduct/Ncube (any of the types) Ncube (any of the types: Inline, Normal and Tabular) |
| Dimensional Data Structure | LogicalProduct/Ncube |
| Enumerated Conceptual Domain | No mapping |
| Enumerated Value Domain | Code representation |
| Environment Change | [possibly as QualityStatementReference, citing the standard/policy/procedure, and results] |
| Exchange Channel | CollectionEvent [this can describe an intended event rather than a past event] 3.2 contains instrument reference |
| Identifiable Artefact | Identifiable |
| Identifier Component | Logical Record/Case Identifier (works well in a single file) 3.1 Variable/Representation/Role (simple string) 3.2 Variable with VariableRole (stating role as case identification) (controlled vocabulary) |
| Individual | Individual |
| Information Consumer | Organization (3.2 both producer and consumer Organizations described, Relation linking producer to consumer and Role designating role of one to the other) |

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| Information Provider | Organization (3.2 both producer and consumer Organizations described, Relation linking producer to consumer and Role designating role of one to the other) |
| Information Request | no mapping |
| Information Resource | no mapping |
| Information Set | -- |
| Instance Question | QuestionConstruct |
| Instance Question Block | MultipleQuestionItem (used by QuestionConstruct) [3.2 QuestionBlock used by a QuestionConstruct or more correctly in DDI Sequence containing QuestionConstructs] |
| Instance Statement | StatementItem |
| Instance Variable | Unit Data: Physical Data Product/Record Layout Scheme/ Record Layout/Data Item/Variable Reference Dimensional Data: Physical Data Product/Record Layout Scheme/ Record Layout/NCube Instance/Data Item/Dimension/Variable Reference |
| Level | Level |
| Logical Record | LogicalRecord |
| Map | No direct mapping |
| Measure Component | 3.1 Variable/Representation/Role (simple string) 3.1 Logical Record/Variables in Record |
| Node | No mapping |
| Node Set | No mapping |
| Organization | [Organization/Individual with Relation and Role specification] |
| Output Specification | No mapping |
| Population | Universe |
| Presentation | No mapping |
| Process Control | Coding/Code ControlConstructs |
| Process Control Design | -- |
| Process Design | No mapping |
| Process Input | Coding/Code [3.2 InParameter] |
| Process Input Specification | No mapping [3.2 InParameter, Binding] |

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|-----------------------------------|---|
| Process Method | No mapping |
| Process Output | No single mapping [3.2 OutParameter] |
| Process Output Specification | No single mapping |
| Process Pattern | |
| Process Step | Coding/Code ControlConstructs [3.2 GenerationInstruction, GeneralInstruction, ControlConstructs] |
| Process Step Instance | No mapping |
| Product | -- |
| Protocol | -- |
| Provision Agreement | Archive/Access – access conditions, disclaimers, restrictions (can be used for collection or item) Access (AccessConditions, Disclaimer, Restrictions) |
| Question | QuestionItem |
| Question Block | Sequence [3.2 QuestionBlock or Sequence] |
| Questionnaire | CollectionEvent [this can describe an intended event rather than a past event] 3.2 contains instrument reference |
| Questionnaire Component | ControlConstructs (and substitutions) |
| Questionnaire Logic | ControlConstructs (and substitutions) |
| Questionnaire Specification | Instrument |
| Record Relationship | RecordRelationship |
| Referential Metadata Attribute | -- |
| Referential Metadata Content Item | -- |
| Referential Metadata Resource | no mapping |
| Referential Metadata Set | -- |
| Referential Metadata Structure | -- |
| Referential Metadata Subject | -- |
| Referential Metadata Subject Item | -- |
| Represented Variable | Variable |
| Rule | Coding [3.2 GenerationInstruction, GeneralInstruction] |

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| Scraping Process Map | -- |
| Sign | No mapping |
| Statement | StatementItem |
| Statistical Classification | No mapping |
| Statistical Need | no mapping |
| Statistical Program | Group |
| Statistical Program Cycle | StudyUnit |
| Statistical Program Design | no mapping |
| Statistical Support Program | -- |
| Subject Field | No direct mapping |
| Unit | No mapping |
| Unit Data Point | RecordLayout |
| Unit Data Record | No mapping |
| Unit Data Set | PhysicalInstance that contains microdata |
| Unit Data Structure | LogicalProduct |
| Unit Type | AnalysisUnit |
| Value Domain | Representation [3.2 ValueRepresentation] |
| Variable | Data Element Concept |
| Web Scraper Channel | CollectionEvent [this can describe an intended event rather than a past event] 3.2 contains instrument reference |

Mapping SDMX to GSIM

| Object | SDMX |
|-------------------------|--|
| Administrative Details | No Mapping |
| Administrative Register | -- |
| Agent | See Organization Scheme |
| Agent Role | No mapping |
| Assessment | No Mapping |
| Attribute Component | Data Attribute (but only for dimensional data) |
| Business Case | No Mapping |
| Business Function | No Mapping |
| Business Process | No Mapping |
| Business Service | No Mapping |
| Category | No Mapping |
| Category Item | No Mapping |
| Category Set | No Mapping |

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|------------------------------|--|
| Change Definition | No Mapping |
| Classification Family | No Mapping |
| Classification Index | No Mapping |
| Classification Index Entry | No Mapping |
| Classification Item | Hierarchical Code |
| Classification Series | No Mapping |
| Code | No mapping |
| Code Item | Code |
| Code List | Codelist |
| Code Value | No mapping |
| Concept | Concept |
| Concept System | No mapping |
| Conceptual Domain | No mapping |
| Correspondence Table | Codelist Map or Hybrid Codelist Map |
| Data Point | No Mapping |
| Data Resource | No Mapping |
| Data Set | Data Set |
| Data Structure | Data Structure Definition (but only applies to Dimensional data) |
| Data Structure Component | Component |
| Datum | Codelist Map or Hybrid Codelist Map |
| Described Conceptual Domain | Codelist Map or Hybrid Codelist Map |
| Described Value Domain | non enumerated association between Representation and Facet |
| Designation | non enumerated association between Representation and Facet |
| Dimensional Data Point | No Mapping |
| Dimensional Data Set | Data Set |
| Dimensional Data Structure | Data Structure Definition |
| Enumerated Conceptual Domain | No Mapping |
| Enumerated Value Domain | enumerated association between Representation and Codelist |
| Environment Change | No Mapping |
| Exchange Channel | Registration |
| Identifiable Artefact | Identifiable Artefact |
| Identifier Component | Dimension (but only for Dimensional data) |
| Individual | No Mapping |
| Information Consumer | Data Consumer |
| Information Provider | Data Provider |
| Information Request | No Mapping |
| Information Resource | No Mapping |

| | |
|-----------------------------------|--|
| Information Set | No Mapping |
| Instance Question | No Mapping |
| Instance Question Block | No Mapping |
| Instance Statement | No Mapping |
| Instance Variable | No Mapping |
| Level | Level |
| Logical Record | No Mapping |
| Map | Code Map or Hybrid Code Map |
| Measure Component | Measure (but only for dimensional data) |
| Node | Item |
| Node Set | Item Scheme |
| Organization | Organisation Unit |
| Output Specification | No Mapping |
| Population | No Mapping |
| Presentation | No Mapping |
| Process Control | Transition |
| Process Control Design | Transition |
| Process Design | No Mapping |
| Process Input | "input" association between Process Step and Process Artefact |
| Process Input Specification | No Mapping |
| Process Method | No Mapping |
| Process Output | "output" association between Process Step and Process Artefact |
| Process Output Specification | No Mapping |
| Process Pattern | Process |
| Process Step | Process Step |
| Process Step Instance | No Mapping |
| Product | No Mapping |
| Protocol | No Mapping |
| Provision Agreement | Provision Agreement (but GSIM definition is much broader) |
| Question | No Mapping |
| Question Block | No Mapping |
| Questionnaire | No Mapping |
| Questionnaire Component | No Mapping |
| Questionnaire Logic | No Mapping |
| Questionnaire Specification | No Mapping |
| Record Relationship | No Mapping |
| Referential Metadata Attribute | MetadataAttribute |
| Referential Metadata Content Item | Component? |

| | |
|-----------------------------------|------------------------|
| Referential Metadata Resource | No Mapping |
| Referential Metadata Set | MetadataSet |
| Referential Metadata Structure | ReportStructure |
| Referential Metadata Subject | MetadataTarget? |
| Referential Metadata Subject Item | MetadataTarget? |
| Represented Variable | No Mapping |
| Rule | Computation |
| Scraping Process Map | -- |
| Sign | No Mapping |
| Statement | No Mapping |
| Statistical Classification | Hierarchical Code List |
| Statistical Need | No Mapping |
| Statistical Program | No Mapping |
| Statistical Program Cycle | No Mapping |
| Statistical Program Design | No Mapping |
| Statistical Support Program | No Mapping |
| Subject Field | Category |
| Unit | No Mapping |
| Unit Data Point | No Mapping |
| Unit Data Record | No Mapping |
| Unit Data Set | No Mapping |
| Unit Data Structure | No Mapping |
| Unit Type | No Mapping |
| Value Domain | Representation |
| Variable | No Mapping |
| Web Scraper Channel | -- |