FIBO Primer

EDM Council 30 September 2017





Summary of this Primer

The purpose of this Primer is to inform all potential users of FIBO about how to find its content, how to understand its content and how to use and extend its content. Clearly, given the massive content of FIBO and the wide range of its users, this Primer is only the first step in this process.

While FIBO gives something of value to everyone in the Finance Industry – for example the FIBO Glossary requires no more than the ability to read English, other FIBO products require considerable knowledge and acceptance of a learning curve in the technology of the Semantic Web.

FIBO is intended for a range of users including its simplest form as an English language Glossary that could be underlying a bank or a regulator's Data Dictionary, to its most complex use as a bank's operational ontology in its native Web Ontology Language (OWL). There are also those external uses of FIBO such as FIBO.schema.org which uses FIBO as a reference to find specific information on the Internet.

To serve this wide array of users, FIBO is published as a variety of products in file formats and dialects ranging from HTML to JSON-LD. Currently, there are more than 8 distinct products. All are generated, or derived from the FIBO OWL System of Record.

FIBO currently consists of 11 core Finance Industry domains including Securities and Equities, Loans and more, in 49 modules and more than 300 ontology files. There are two published releases. FIBO Development and FIBO Production. FIBO Development is released as changes are made by FIBO Content Teams. FIBO Production is released at the end of each quarter.

FIBO Development is 100% of FIBO and is certain to contain unfinished as well as carefully vetted and tested work. FIBO Development will be the preferred source for those intending to become part of the FIBO development process, and for those intending to experiment with extending FIBO on their own. FIBO Production consists of those FIBO ontologies that have been vetted and tested to the best of the FIBO Team's ability with state of the art tools. This release of FIBO Production includes Foundations, Financial Business and Commerce, Business Entities, Loans, Indices and Indicators, and parts of Derivatives and Securities and Equities.

Taking full advantage of FIBO is best achieved through the suite of FIBO tools underlying the FIBO Build-Test-Deploy-Maintain (BTDM) Methodology. Access and instructions are available at https://spec.edmcouncil.org/

FIBO, as described above, is available at https://spec.edmcouncil.org/fibo/ From this site, all, or a part, of FIBO can be downloaded as the products described above.

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1. Introduction

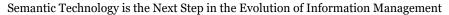
1.1. What is FIBO?

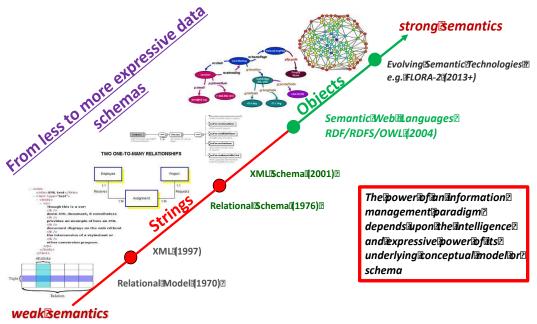
The Financial Industry Business Ontology (FIBO) is the industry standard resource for the definitions of business concepts in the financial services industry. It is developed and hosted by the Enterprise Data Management Council (EDMC) and is published in a number for formats for operating use and for business definitions. It is also standardized through the Object Management Group (OMG). FIBO is developed as a series of *ontologies* in the Web Ontology Language (OWL). As such it is not a data model but a representation of the "things in the world" of financial services. The use of logic ensures that each real-world concept is framed in a way that is unambiguous and that is readable both by humans and machines. These common concepts have been reviewed by EDM Council member firms over a period of years and represent a consensus as understood in the industry and as reflected in industry data models and message standards.

FIBO is developed according to a rigorous and well-defined process, referred to as the "<u>Build-Test-Deploy-Maintain</u>" methodology. A definitive document for that process is available here and should be referred to by anyone participating in FIBO development activities. In essence, the FIBO ontologies are developed and maintained by FIBO Content Teams which are coordinated by a single FIBO Leadership Team, with process and automation support provided by a FIBO Process team.

1.2. What is an Ontology?

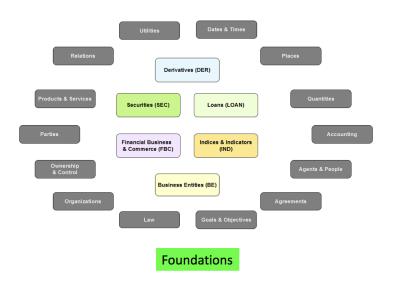
An ontology in OWL is made up of statements about Classes (i.e., sets of things) and Properties (ways that things relate to other things). FIBO defines the sets of things that are of interest in financial business applications, and the ways that those things can relate to one another. In this way, FIBO can give meaning to any data (e.g., spreadsheets, relational databases, XML documents) that describe the business of finance. FIBO considers both Classes and Properties to be Concepts. The languages of Ontologies were originally developed by the US DoD and are codified by the World Wide Web Consortium (W3C). Their place in the continuum of Information Management is shown in the figure below.





1.3. FIBO Structure

FIBO is organized in a hierarchical directory structure to organize the ontologies. Top level directories are called *domains*; beneath that may be one or two levels of *sub-domain* and then *modules*.



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1.4. FIBO Maturity Levels

FIBO is published at two levels, each with a complete set of artifacts, or products:

- a **Production** level, where every ontology has passed serious scrutiny for consistency, completeness and documentation. This is published at the end of each quarter
- a Development level, where the ontologies have passed only minimum scrutiny for referential
 consistency (they don't refer to things which are undefined). This is published continuously as
 content is developed. It also includes updates to Production content that will be published at
 the end of the next quarter. Casual users and developers should work with Development FIBO
 and comment back to the relevant FIBO Content Team through EDM Council JIRA or the
 feedback form here.

FIBO Source Maturity Levels

FIBO publications are built out of FIBO <u>sources</u> from a FIBO <u>GitHub Repository</u>. FIBO <u>sources</u> are all in OWL and have three levels of maturity, *Informative*, *Provisional* and *Release*. One can see the maturity level in the OWL for each ontology.

Informative

Informative ontologies are ones that have been considered by a content team, but have been
explicitly rejected. They are included in FIBO sources because they include elements without
which FIBO would fail basic referential consistency tests. Casual users should usually ignore
them. Developers should consider these for information only, to determine the detailed
meaning of the things that reference them.

Provisional

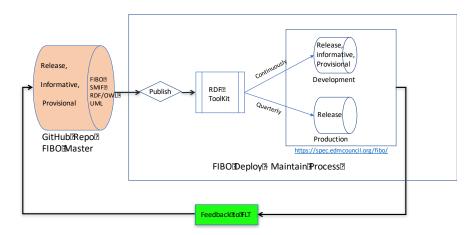
 Provisional ontologies were developed in the early days of FIBO, or have been developed by FIBO Content Teams, but have not been vetted or tested to the level of Release.

Release

• Release ontologies have undergone unit and integration testing, and have passed the most rigorous tests for completeness, consistency and correctness.

FIBO Publication

FIBO publications are built from these sources through a process that involves re-writing URIs to match publication conventions, converting files into multiple standard formats, and triggering derivative



products such as the Glossary and Vocabulary. The figure below shows the publication process.

1.5. September 2017 Release

FIBO Production

FIBO Production includes the Foundational aspects of FIBO: Foundations (FND), Financial Business and Commerce (FBC), Indices and Indicators (IND) and Business Entities (BE). These have been refined, tested and approved as formal specifications by the Object Management Group (OMG). It also contains other material that has been through a rigorous technical vetting process, such as parts of Securities (SEC), Loans (LOANS) and Derivatives (DER).

FIBO Development

All other domains, i.e. those not named in the above paragraph, are Provisional and should be used with caution as raw material. This also applies to the remaining portions of Securities, Loans and Derivatives.

2. Accessing and Using FIBO

2.1. Using FIBO

All of FIBO can be read by humans. However, only FIBO OWL based products can be embedded in computer applications that can perform logic functions such as inferring classifications and relationships. All FIBO products below are described in more detail in this section:

- Glossary A human-readable, cross-referenced dictionary of terms in FIBO (in HTML)
- Data Dictionary An Excel spreadsheet of FIBO terms based on the Glossary
- FIBO-Vocabulary A machine-readable taxonomy of terms in FIBO (in extended SKOS)
- Linked Data Fragments A performant way of querying FIBO using specific client software
- Visual Notation for OWL Ontologies (VOWL) Web Pages Generated web documentation for each ontology, including graphical depictions of FIBO concepts (using the VOWL notation)
- UML Models Machine- and human-readable UML diagrams of FIBO (using the forthcoming OMG UML profile "SMIF" - Semantic Modeling for Information Federation)
- Ontology Files Machine-readable files in the Web Ontology Language (OWL), in a variety of different formats
- schema.org A vocabulary for marking up web pages for search engines, which has been extended with terms taken from FIBO

The landing page for FIBO <u>Products</u> has links to each of the separate Products. Within each Product a user may choose whether to see the Production or the Development version of all of FIBO, or a single ontology.

2.2. FIBO Human-Readable Products (Glossary, Data Dictionary, VOWL, UML Models Glossary

The Glossary provides the following for each class in FIBO, with both searching and hyperlinking supported. It may be downloaded for internal use or further processing:

Name: the primary label by which the concept is identified.

Definition: a written definition that has been arrived at during subject matter expert reviews of the concept, or in some cases a definition sourced from a suitable authority or publication.

Synonym: One or more additional labels by which the same concept is also known, for example in different business areas or different markets.

Model-Generated Definition: A set of logical assertions setting out what it takes for something in the world to be a member of the set represented by this concept. This is in the following parts:

- "A kind of ..." identifies the one or more concepts of which this concept is a sub type.
- "A valid occurrence satisfies the following necessary conditions" introduces a list of assertions
 which must be true for something to be a member of that set of things; for example, that it
 must have at least one value (possibly of a certain type) for a given property
- "A valid occurrence may also have the following properties" introduces a list of properties that it would commonly be expected to assert about that such things even if they are not necessary conditions for set membership.

Here is an example Glossary entry:

share

Definition: A security that signifies ownership in a corporation and represents a claim on part of the corporation's assets and earnings. What a share confers: 1. Voting rights 2. Entitlement to Income 3. Entitlements to Assets

Model-Generated Definition:

A kind of transferable contract. A valid occurrence satisfies the following necessary conditions:

- is held by at least one occurrence of shareholder
- · is senior to at least one occurrence of share.
- confers at least one occurrence of voting right.
- confers ownership of equity at least one occurrence of shareholder equity.

A valid occurrence may also have the following properties:

- · governed by any number of occurrences of articles of incorporation.
- number of shares in issue any number of occurrences of Whole Number.
- par value any number of occurrences of monetary amount.
 non paid amount at most one occurrence of monetary amount
- voting rights per share any number of occurrences of Whole Number.

Data Dictionary

Generated from the OWL, the FIBO Data Dictionary is in an Excel Workbook format. The Data Dictionary includes the name, whether it's a class or property, any synonyms, and the human and machine generated definitions. The Data Dictionary can be downloaded and opened in any application that can read .xlsx. See example below.

read .xisx. See example below.				
Silaic		Totalignights per share any number of occurrences of Whole Humber.		
share coupon schedule				
	Schedule of dates on which a Share Coupon Payment is to take place.	A kind of coupon schedule specification. A valid occurrence satisfies the following necessary condition:		
share coupon schedule specification		scheduled dividend payment at least one occurrence of equity dividend payment.		
	The entitlements to the holder of a single share option, comprised in an option contract or transaction supplement.	A kind of equity option entitlement. A valid occurrence may have the following properties:		
share option entitlement		number of shares any number of occurrences of Number.		
	An option in which the underlyer is a single publicly issued and traded share.	A kind of equity option o t c contract. A valid occurrence satisfies the following necessary condition:		
		underlying at least one occurrence of single share observable. A valid occurrence may also have the		
		following properties:		
		extraordinary events treatment any number of values of any type.		
share option o t c contract		shares per option any number of occurrences of Whole Number.		
	The strike price is the price per share specified or otherwise determined in the transaction. This can be expressed either as a	A kind of equity option exercise terms set. A valid occurrence satisfies the following necessary condition:		
	percentage of notional amount or as an absolute value. FpML equityStrike (complex type): A type for defining the strike price for an	includes specification at least one occurrence of absolute price strike specification.		
	equity option. The strike price is either: (i) in respect of an index option transaction, the level of the relevant index specified or			
	otherwise determined in the transaction; or (ii) in respect of a share option transaction, the price per share specified or otherwise			
share option strike terms set	determined in the transaction. This can be expressed either as a percentage of notional amount or as an absolute value.			

UML Models and Diagrams

FIBO makes use of a UML-based modeling language for the creation of conceptual models which is part of a larger forthcoming standard called Semantic Information Modeling for Federation (SMIF). The specific flavor of SMIF used in the current Products is supported by Cameo Concept Modeler (CCM), a MagicDraw plug-in from NoMagic Inc. CCM may be used to generate, import and edit OWL ontologies.

As further implementations of <u>SMIF</u> become available, these tool formats will also be provided as FIBO Products. Some understanding of SMIF will be required for anyone browsing, reading or extending these models.

The UML models may be accessed in two ways: as diagrams on the published HTML pages, and as a downloadable stand-alone copy of the UML file. Appendix B provides an explanation of the different flavors of UML diagrams used for FIBO together with examples.

Visual Notation for OWL (VOWL)

<u>The Visual Notation for OWL Ontologies</u> (<u>VOWL</u>) defines a visual language for the user-oriented representation of ontologies. It provides graphical depictions for elements of the Web Ontology Language (OWL) that are combined to a force-directed graph layout visualizing the ontology. FIBO uses Widoco, and open source VOWL application. The notation is described here:

FIBO uses open source software named WIDOCO (Wizard for DOCumenting Ontologies for VOWL).

2.3. FIBO Machine-Readable Products (Vocabulary, Ontology)

FIBO Vocabulary (SKOS)

This is a machine-readable file giving terms, definitions and relationships. These are in an extended Simple Knowledge Organization System (SKOS) format, where FIBO relationships are represented as subproperties of the standard *isRelatedTo* property, rather than as SKOS Concepts.

The FIBO Vocabulary machine-readable files are intended to provide input to a range of tools, usually characterized as Glossary or Vocabulary tools. These tools are generally used to provide further business-facing representations of the content of these files.

FIBO Ontology Files (OWL)

These may be loaded into any tool that consumes the Web Ontology Language. There are a number of tools available, both commercial and open source, that can read and edit FIBO. We provide instructions for the most common ones.

The OWL is available in the following formats:

- RDF/XML (.rdf)
- Turtle (.ttl)
- JSON-LD (.jsonld)
- NQuads (nq.zip), with a named graph per ontology

These may be used offline after downloading the required OWL files, or on-line as a "Follow-your-nose" implementation. Follow-your-nose is described below. To use <u>FIBO Off line</u>.

This part of https://spec.edmcouncil.org/fibo/ has comprehensive information on the use of Vendor tools and a list of all FIBO supported formats

Using FIBO OWL Ontology Files Online

The FIBO Ontology is available online using the follow-your-nose pattern. This means that tools that use this pattern can read FIBO directly from the web. This ensures that you are always viewing the latest version of FIBO. Keep in mind, that when viewing FIBO in this way, that any edits you make to FIBO in your own tool will only be reflected in your own copy, and won't be saved for others to see. FIBO is also available for offline use by downloading a .zip of the current state. FIBO Production is only updated every three months, so any such offline downloaded version will quickly be out of date.

FIBO Linked Data Fragments

To increase the availability of FIBO, triples from our Linked Data Fragment server are available here: a linked data fragment client can be pointed to that location. One can obtain a client and server implementation here:

The purpose of this server is to enable intelligent clients that can process triples in client side SPARQL (the semantic query language from W3C). A triple pattern specification is very lightweight, and still allows SPARQL endpoint-like access of data. One can look at this protocol method as sitting between a full data dump file and a SPARQL endpoint. EDMC plans to also offer a client implementation from this server after some further testing and finding some handy queries to prepopulate.

Other fragments servers in production can be found here:

Schema.org

Shema.org includes concepts derived from FIBO, along with a FIBO-specific extension to schema.org itself with further FIBO concepts. These are published in Microdata, RDFa and JSON-LD formats.

3. APPENDIX A - Usage Examples

This section gives real-world examples that use a combination of the business-facing and technical FIBO products described above.

Example 1

Extending FIBO for Regulatory and Managerial Reporting Bonds and Equities

Oliver Browne, Nenad Krdzavac, Philip O'Reilly, Mark Hutchinson, David Saul, Dáire Lawlor, Daragh McGetrick Synopsis of work presented for FIBO at EDW Conference in Atlanta, GA

Ontologies are fast becoming a key alternative to database redesign and extension as legacy information systems are wrapped in semantic web forms to be maintained in a traditional financial institution setting. To this end, State Street Corporation and University College Cork set about investigating the use of the

semantic web to enable enriched reporting over existing database systems for managerial fund level data views and regulatory returns.

To begin, we converted a collection of SQL outputs in CSV format into XML. This allowed us to use our database schema and business logic documentation to map to a snapshot of the Financial Industry Business Ontology (FIBO) using XSLT. We found that the existing FIBO standard allowed us to map most instruments and their properties in our sample data barring some esoteric instruments, such as real estate investment trusts, which were added as classes to the standard.

Once our initial standard level of data had been mapped to FIBO, we began implementing our enterprise level ontology. This allowed to map data specific to the enterprise and internal management. Items such as data source, fund manager and investment advisors belong in this view of the data.

Finally, we used the Central Bank of Ireland money market investment fund (MMIF) return as a template for regulatory returns of bond and equity fund data. We incorporated the regulations involved in preparing and filing the returns for this template and extended them using the FIBO standard. This was a significant benefit of the ontological approach as it is expensive or even impossible to manipulate a traditional relational databases core schema. Importantly, the use of FIBO allowed us to create a regulatory return without the need for changes to the database schema or manual aggregation of data.

To prepare these returns and reports, several tools were utilized. These included Stardog, Jena API, Pellet API, Java FX, TopBraid and Eclipse. Reports were prepared using SPARQL queries over the data stored in Stardog. A key benefit of ontologies is the ability to perform flexible data queries using SPARQL. For example, in a traditional relational database environment, if a regulator asks for all exposures to a counterparty, this involves a data dump of system data and manual aggregation of exposures. SPARQL queries allow you to query the entire knowledge graph and return all exposures without manual intervention.

The final major contribution of ontologies is in the use of reasoning tools. This allows users to test the validity and logical consistency of the underlying data and to flag potential data errors. Some minor errors were highlighted using a reasoner in our case.

Figure 1 below provides a management view of fund level data across several funds from various sources. This type of report would require manual aggregation in a traditional relational database environment.

However, the use of the FIBO standard, ontologies and SPARQL allow this report to be prepared in a consistent, standard manner without the need for manual aggregation.

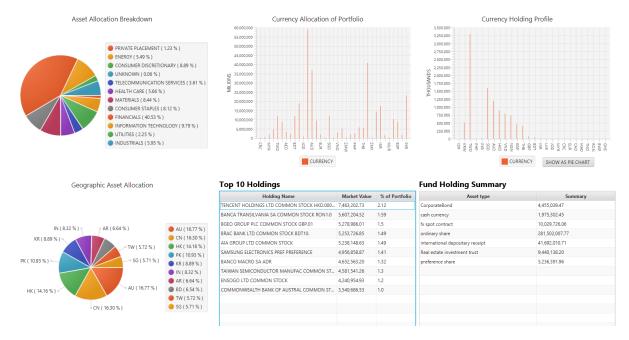


Figure 1: Managerial view of multiple funds aggregated using SPARQL and FIBO

Example 2 Mapping Sources in Different Formats (Integration; reporting)

Problem description: "A FIBO Proof of Concept Team took a statistical data collection on a core banking balance sheet from the Bank of England and a regulatory collection used by both the Bank of England and Financial Conduct Authority. The first has an implicit, informal data model, described in an Excel template and an accompanying PDF of definitions. The second is defined by the European Banking Authority and comes in the form of a dimensional model, available both in an Access database format and an XBRL schema. We'd like to express them in a common format, in a manner that some banks and some third party software vendors can access them easily and map to them."

Here the source formats are an Excel template and a dimensional data model. The same approach could be used for any two or more disparate data formats, or any two data models that are expressed in the same format but have different schemas.

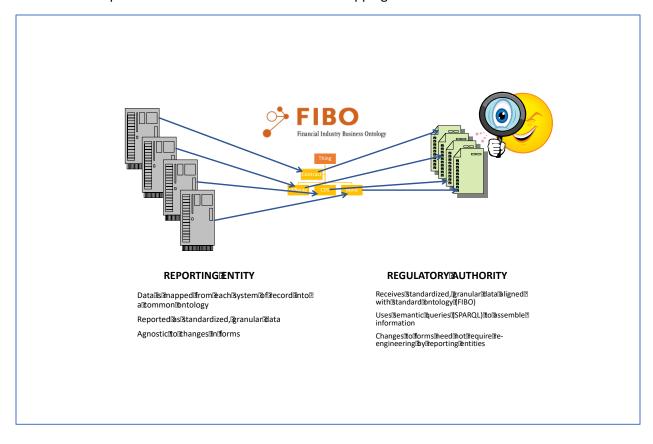
The first step is to replicate these data formats in OWL. The items in the data models are then mapped to the FIBO concepts which are also represented in OWL.

Note that in most cases this is not a one-to-one mapping. One concept in a spreadsheet template or database may map to a unique combination of concepts in FIBO.

Usually, the concepts framed in a data model are highly contextual. So a simple data element like "Borrower phone number" would correspond to a set of classes and properties in the FIBO model. In FIBO, the information that makes up the context is itself part of the ontology. In this example, Loan

Borrower Phone Number maps to a combination of the class of legal entity that may be a *borrower*, with the property for the *phone number* for any entity.

The basic requirement is that there is some framework in place in which semantic relationships may be asserted between the real world item as modeled in FIBO and the various data-specific representations of that item in the source data. These semantic relations can be extended to identify the specific kind of relationship in which some data element represents some real world thing or combination of things. There are also specialist tools that enable this kind of mapping.



4. Appendix B Understanding SMIF UML Diagrams

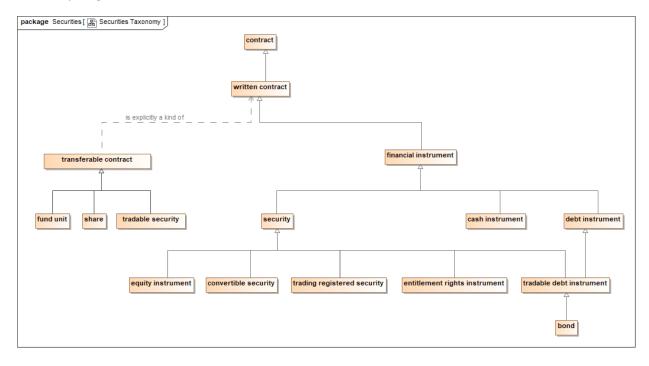
SMIF based UML Class diagrams come in the following types:

- Taxonomy diagrams showing the classification hierarchy of primary model content containing the concept
- Focus diagrams (per business domain, sub-domain; or per module or ontology file) showing the relationships of the concept to other concepts
- Defining diagrams establishing the precise semantics of the concept

Taxonomy Diagrams

A Taxonomy Diagram shows only the classification hierarchy of the class concepts that are of primary relevance in a given business domain or sub-domain. For example, a taxonomy of kinds of security will also show the types of contract that are kinds of. In the Taxonomy diagram below, *share* is shown as a kind of *transferable contract*.

For simplicity, some taxonomy diagrams show just one facet. For example, one diagram may show all derivatives classified by underlying asset type (rates, indices, commodities, foreign exchange, security assets and so on), while another may show all the same derivatives classified by contract structure (forward, options, swaps and swaptions). Where this is the case, users will find two or more adjacent taxonomy diagrams.



Most business domains, modules and ontologies contain additional subject matter besides the primary type of concept. For example, while the taxonomy may show the classification hierarchy of financial instruments, other concepts such as contract terms, cash flow descriptions and so on, are also in a taxonomic hierarchy of their own.

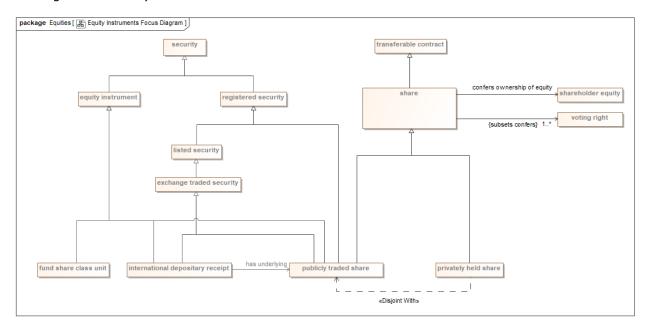
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In summary, the taxonomy diagrams show all the information about the classification of the primary subject matter for a given business domain or sub-domain, in this example Securities.

Focus Diagrams

Focus diagrams are focused on some topic which may describe a whole business domain or a sub-domain. In the example below, the topic is Equity Instruments. Here, *share* is shown to be kind of *transferable contract* that may be privately held, or publicly traded. When it is publicly traded, it will also be a *registered security*.



Some focus diagrams are provided for a specific ontology; in these cases, the diagram will usually show classes that are in other ontology files in a lighter color.

Some focus diagrams are color coded. These are generally used in subject matter expert reviews, where a range of concepts are of interest. The color coding is topical, that is to say all concepts relating to legal terms will be in one color, all concepts relating to numerical formulae will be another color, and so on.

Usually these focus diagrams (whether color or monochrome) will also include classes that are parents of the classes that are the focus of the diagram, along with relevant properties. For example, a diagram for bonds will also show debt instruments, traded debt instruments and securities, each of which introduces properties that are not unique to bonds but are inherited by them. These classes are generally shown in a lighter color. For the color diagrams, there is a lighter version of each color, in order to show these external concepts.

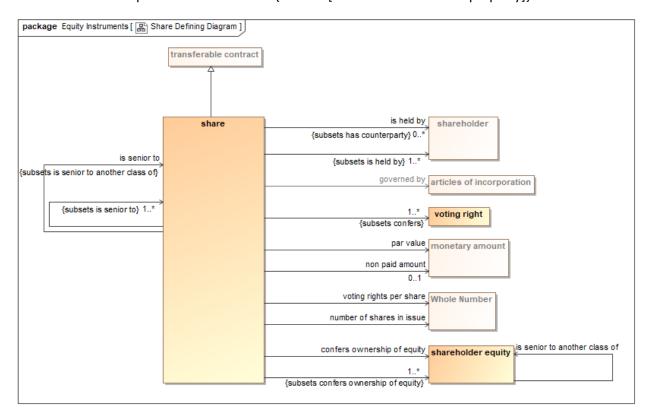
Defining Diagrams

Each concept that represents a class has a defining diagram. The defining diagram for a class shows all the properties that exist for that concept, along with any logical statements (called "restrictions") that define membership of the class.

Properties are also concepts. The canonical definitions of a property concept are given on the defining diagram for the class which is the source (domain) for that property.

Some defining diagrams may be the defining diagram for more than one class; this is commonly the case when classes are closely inter-related and in the same ontology.

Concepts from other ontologies are shown in a lighter color. These may include parent classes, child classes, and classes that are the target (called the *range*) of a property. The FIBO diagram below for the concept *share* has most of these features, with the exception of child classes. The logical restrictions are shown as relationships with the annotation {subsets [name of the restricted property]}.



5. Appendix C - Additional Training Materials

This section is intended to provide choices for learning about ontologies in general.

https://www.cambridgesemantics.com/semantic-university/getting-started-semantics

A text and video trip through all aspects of the semantic web and ontologies

https://www.obitko.com/tutorials/ontologies-semantic-web/introduction.html

Based on a PhD Thesis, begins with philosophy and then gets quite practical

https://vimeo.com/66718408 RDBMS to RDF

A one hour slide show by Juan F. Sequeda of Capsenta as part of the Euclid Project which focuses on mapping relational database information to ontologies as per Example 2 in Appendix A above

http://www.linkeddatatools.com/semantic-web-basics

Goes from the basics to many practical examples

http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470396792.html

The Semantic Web for Dummies One of the original popular press writings

https://www.amazon.com/Semantic-Web-Working-Ontologist-Second/dp/0123859654

If you can study only one, this is it.