Terminology of a Financial Report (Things and relations between things which make up a financial report)

The following is a summary of the things and relations between things that exist in the domain of a financial report¹. The table is a summary of information about the semantics, dynamics, and mechanics articulated by the *Financial Report Semantics and Dynamics Theory*² and observed in XBRL-based public company financial filings to the SEC (set of 6,751 10-Ks submitted during 2014 reporting season). Both the FASB conceptual framework and common practice make up reporting practices (i.e. the FASB does not explicitly state every reporting rule, existing reports explicitly instantiate reporting rules and practices).

Axioms in Pseudo Human Readable	Description	Empirical evidence from XBRL-based	First order logic	Category	SECXBRL.info API syntax
Controlled Natural Language		public company financial filings			
There exists the notion of Thing .	A thing is something that exists in the			TBox	
	real world, in the problem domain or				
	area of concern. "Nothing" is the				
	opposite of thing.				
There exists the notion of Individual .	An individual is some specific item that			TBox	
	exists in reality.				
(I think that all of these should be of the					
pattern Every Individual is a Thing.)					
There exists the notion of Class .	A class is a set of individuals that have			TBox	
	one or more distinguishing features in				
	common (are similar).				
There exists the notion of Property .	A property is a trait, quality, feature,			TBox	
	attribute of an individual, for example				
	the property of being male of a person,				
	of being filed of a report, and so on.				
There exists the notion of Relation .	Relations hold true among universals and			TBox	
	defined classes.				
Every Relation is a Property .	A relation is a type of property. All			TBox	
	relations are properties. ??????				
Every Business Rule is a Relation .	A business rule is a type of relation.			TBox	
Every Key Financial Ratio is a Relation .	A key financial ratio is a type of business			TBox	
	rule.				

For more information see *Understanding the Mechanics of a Digital Financial Report*, http://www.xbrlsite.com/2015/Library/UnderstandingTheMechanicsOfDigitalFinancialReport.pdf

² For more information see the *Financial Report Semantics and Dynamics Theory*, http://xbrl.squarespace.com/fin-report-sem-dyn-theory/

Every Is_A is a Relation .	Relations that hold between classes is the "Is A" or "is a subtype of" relation. (Relations between universals)		ТВох
Every Part_Of is a Relation .	Relations that hold between individuals is the "part of" relation. A part-of relation is something composed of parts but the parts do not add up mathematically. (Relations between particulars)		ТВох
Every Part_Whole is a Relation .	Relations that hold between individuals is the "part of some whole" relation. A part-whole relation is something composed exactly of their parts and nothing else or more where the parts add up to that whole.		ТВох
Every Has_Property is a Relation .	Relations that hold between universals and particulars. (Relations between universals and particulars) ??????		ТВох
Every Has_Part is a Relation .	Relation that indicates that a thing is a required part of some other thing.	Not sure if this is necessary, this could be same as Has_Property. Part_Of states that something is part of (i.e. can be part of) something else; Has_Part states that the part is a REQUIRED part ??????	ТВох
Every Report is a Thing .	A report is about the financial position, financial condition, transactions, events, circumstances of an economic entity.	A set of 6,751 XBRL-based public company financial reports analyzed all of which are 10-K filings.	ТВох
Every Economic Entity is a Property .	Economic or accounting entity which provides a report.	6,751 had an economic entity articulated in two ways. First, by entity/identifier which was the CIK number of the filer. Second, the concept dei:EntityRegistrantName and dei:EntityCenteralIndexKey existed within every report.	ТВох

Every Component is a Thing .	A report is made up of pieces. The pieces of a report are called a component. A component contains or groups a sets of facts. (An equivalent term for Component is Report Fragment)	497,294 components (good effort to measure, but there are some issues) existed within 6,751 reports. A component is identified a combination of the network identifier and table names within a network. Every fact that does not exist within an explicit table exists within an implied table.	ТВох
Every Fact is a Thing .	A fact is an abstract notion which represents a fact value and a set of characteristics which uniquely differentiate that fact value from any other reported fact value. A fact is reported and can be organized into components and described by characteristics.	8,816,913 facts exist within the 6,751 reports. Each is uniquely identifiable as a result of the facts characteristics.	ТВох
Every Characteristic is a Thing .	Characteristics describe and distinguish facts contained within a component from other facts. (An equivalent term for Characteristic is Aspect)	426,258 characteristics existed on 8,816,913 facts which existed in 6,751 reports. Every one of the 8,816,913 facts had three characteristics: Economic entity, Period, and concept. Other facts had additional characteristics expressed as an [Axis].	ТВох
Every Parenthetical Explanation is a Thing .	A parenthetical explanation provides additional descriptive information about a fact.	27,909 parenthetical explanations (XBRL footnotes) exist within the 6,751 reports. Every XBRL instance has some set of (0 to many) XBRL footnotes which is required to be connected to a fact.	ТВох
Every Block is a Thing .	A block is a subset of a component that has exactly one concept arrangement pattern. A block is a part of a component; a component is made up of one to many blocks. (An equivalent term for Block is Arrangement)	Not measured yet, but each of the 497,294 components can be located and broken down into blocks by using an algorithm to determine which pieces of the component is a roll up (i.e. XBRL calculations exist), a roll forward (i.e. a beginning and ending preferred label role exists in XBRL presentation relations), and so on.	ТВох

Every Slot is a Thing .	A slot is simply the idea of an allotted place in an block or arrangement where something can be logically and sensibly placed. ??????	A slot is an abstract notion, not observable. (A slot seems to be a lot like a what a programmer thinks of as a method)	ТВох
Every Report Has_Property Economic Entity.	An economic/accounting or reporting entity is created by creating a new instance of identifier. For example the CIK number of a public company which reports to the SEC.	6,751 had an economic entity articulated in two ways. First, by entity/identifier which was the CIK number of the filer. Second, the concept dei:EntityRegistrantName and dei:EntityCenteralIndexKey existed within every report.	ABox
Every Report Has_Property Components.	A report has the property of having some set of components.	497,294 components existed within 6,751 reports. A component is identified a combination of the network identifier and table names within a network. Every fact that does not exist within an explicit table exists within an implied table.	ABox
Every Component Has_Property Facts.	A component has the property of having some set of facts.	What amounts to a table of facts (fact table) exists for every report in the set of 6,751.	ABox
Every Fact Has_Property Characteristics.	A fact has the property of having some set of characteristics.	Each column of the fact table represent a characteristic (with the exception of the fact value and units and decimals for numeric fact values).	ABox
Every Economic Entity Is_A Characteristic.	The economic entity (reporting entity) of a fact is a characteristic of the fact. (required by XBRL)	8,816,913 facts each had an economic entity (reporting entity) as a characteristic.	ABox
Every Period <i>Is_A</i> Characteristic .	The period (calendar period) of a fact is a characteristic of the fact. (required by XBRL)	8,816,913 facts each had a period (calendar period) as a characteristic.	ABox
Every Concept Is_A Characteristic.	The concept of a fact is a characteristic of the fact. (required by XBRL)	8,816,913 facts each had a concept as a characteristic.	ABox
Every Characteristic <i>Is_A</i> Slot .	Other characteristics can be added to a fact as deemed appropriate	406,005 other characteristics were added to facts using US GAAP XBRL Taxonomy [Axis] or extension [Axis] create by reporting entity.	ABox

Every FactValue is a Property.	A fact value is the numeric, nonnumeric, or prose which is the value of the fact.	8,816,913 facts exist within the 6,751 reports and every fact had exactly one fact value.	ТВох
Every NumericFactValue is a FactValue.	A numeric fact value is the numeric.	Not measured, but known to exist.	TBox
Every NonnumericFactValue is a FactValue.	A fact value is the nonnumeric.	Not measured, but known to exist.	ТВох
Every ProseFactValue is a FactValue .	A fact value is the prose.	Not measured, but known to exist.	TBox
Every Fact Has_Property FactValue.	A fact has the property of having exactly one fact value.	8,816,913 facts exist within the 6,751 reports and every fact had exactly one fact value.	ABox
Every Units is a Property .	A fact value which is numeric has the property of units. ??????? (Is this a property or a thing? Normally things are singular. Some people would argue that units is an aspect/characteristic)	Not measured, but every numeric fact is required to have units per the XBRL specification.	ТВох
Every Decimals is a Property .	A fact value which is numeric has the property of decimals. ??????? (Is this a property or a thing? Normally things are singular.)	Not measured, but every numeric fact is required to have decimals per the XBRL specification.	ТВох
Every NumericFactValue Has_Property Units.	A fact value that is numeric is required to have the property of units which indicates the units of the numeric value.	Not measured, but XBRL validation requires numeric facts to have a units.	ABox
Every NumericFactValue Has_Property Decimals.	A fact value that is numeric is required to have the property of units which indicates the units of the numeric value.	Not measured, but XBRL validation requires numeric facts to have a decimals.	ABox
Every Fact Has_Property Parenthetical Explainations.	A fact has the property of having zero to many parenthetical explanations.	27,909 parenthetical explanations (XBRL footnotes) exist within the 6,751 reports and each is associated with a fact. Parenthetical explanations may be associated with 1 to many facts.	ABox
Every Arrangement Pattern is a Thing .	An arrangement pattern is a property of a set of relations (Networks, Axis, Line Items)	In the process of being measured; but it has been observed that there are roll ups, roll forwards, adjustments, and hierarchies with reports observed.	ТВох

Every Concept Arrangement Pattern is	Concept arrangement patterns are	Arrangement patterns is broken into	TBox
an Arrangement Pattern.	relations between the Concepts and	two groups: member arrangement	TBOX
an Arrangement Pattern.	Abstracts which make up a set of primary	patterns for [Axis] (dimensions) and	
	items (or [Line Items])	concept arrangement patterns for [Line	
		Items] (primary items).	
Every Member Arrangement Pattern is	Member arrangement patterns are	Arrangement patterns is broken into	TBox
an Arrangement Pattern.	relations between the set of [Member]s	two groups: member arrangement	
	of a dimension (or [Axis])	patterns for [Axis] (dimensions) and	
		concept arrangement patterns for [Line	
		Items] (primary items).	
Every Component Arrangement Pattern	A network arrangement pattern is the	Measured 495,825 networks which	TBox
is an Arrangement Pattern .	sequence or order of the set of	contained 497,177 components	
	components which make up a report.	(approximate) in set of 6,751; no	
		approach is specified by SEC to	
		sequence components however SEC	
		does specify how to order networks.	
Every Text Block is a Concept	A [Text Block] is prose which is reported	Measured by counting report elements	TBox
Arrangement Pattern.	within one fact.	with the nonnum:textBlockItemType	
		data type; 410,908 text blocks in set of	
		6,751 reports (very accurate).	
Every Roll Up is a Concept Arrangement	A roll up has the mathematical pattern:	Measured by counting XBRL calculation	TBox
Pattern.	Concept A + Concept B + Concept N =	relations, 122,274 roll ups in set of	
	Total	6,751 reports (very accurate).	
Every Roll Forward is a Concept	A roll forward has the mathematical	Measured by counting [Roll Forward],	TBox
Arrangement Pattern.	pattern: Beginning balance + Additions –	beginning and ending preferred label	
	Subtractions = Ending balance	role in XBRL presentation relations;	
		40,845 roll forwards in set of 6,751	
		reports (approximate).	
Every Adjustment is a Concept	A roll forward has the mathematical	In the process of being measured; but it	TBox
Arrangement Pattern.	pattern: Originally stated balance +	has been observed that there are	
	Adjustments = Restated balance	adjustments within reports observed.	
Every Hierarchy is a Concept	A hierarchy has the mathematical	Measured by process of elimination; if a	TBox
Arrangement Pattern.	pattern: No mathematical relationships	block is not a roll up, roll forward,	
	(I don't like the term hierarchy, this	adjustment, or text block; then it must	
	might be better called "Set" or "Group"	be a hierarchy (or something else);	
	or "Collection") ??????	180,403 hierarchies in set of 6,751	
	·	reports (approximate).	

Every Roll Up Has_Property Total.	Every roll up has the part "total" which is the sum of the concepts which make up that total.	It has been observed that every roll up has a total which is the root concept in the XBRL calculation relations.	ABox
Every Roll Forward Has_Property Beginning Balance.	Every roll forward has the part "Beginning Balance" which is an instant and the beginning part of the roll forward.	It has been observed that every roll forward has a preferred label role with a value of "period start label" on a concept which is of instant period type.	ABox
Every Roll Forward Has_Property Ending Balance.	Every roll forward has the part "Ending Balance" which is an instant and the beginning part of the roll forward.	It has been observed that every roll forward has a preferred label role with a value of "period end label" on a concept which is of instant period type.	ABox
Every Roll Forward Has_Property Change.	Every roll forward has the part "change" which is the mathematical difference between the ending and beginning balance.	While the total change is not reported generally (with one exception of the cash flow statement which reports net cash flow); the change in a roll forward can be detected by observing all the fact in the fact table which are of period type duration	ABox
Every Adjustment Has_Property Originally Stated Balance.	Every adjustment has the part "originally stated balance" which is an instant and the beginning part of the adjustment.	Adjustments are relatively rare and almost universally represented incorrectly within XBRL-based public company filings. Should be an instant with a preferred label role indicating concept is originally stated balance.	ABox
Every Adjustment Has_Property Restated Balance.	Every adjustment has the part "restated balance" which is an instant and the ending part of the adjustment.	Adjustments are relatively rare and almost universally represented incorrectly within XBRL-based public company filings. Should be an instant with a preferred label role indicating concept is restated balance.	ABox
Every Adjustment Has_Property Adjustment.	Every adjustment has the part "adjustment" which is the mathematical difference between the restated and originally stated balance.	While the adjustment is not reported generally; the "adjustment" in an adjustment can be detected by observing all the fact in the fact table which are of period type duration	ABox

US GAAP Based, SEC-style Financial Report

The following is a summary of the things and relations between things that extend the financial report and exist in an SEC-style financial report³.

Axioms in Pseudo Human Readable Controlled Natural Language	Description	Empirical evidence from XBRL-based public company financial filings	First order logic	Category	SECXBRL.info API syntax
Every Report Has_Property Document type.	Document type is a required property of a report.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.		ABox	
Every Report Has_Property Document period end date.	Document period end date (i.e. the current balance sheet date) is a required property of a report.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.		ABox	
Every Report Has_Property Amendment flag.	Amendment flag is a required property of a report.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.		ABox	
Every Report Has_Property Report fiscal year focus.	Report fiscal year focus is a required property of a report.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.		ABox	
Every Report Has_Property Report fiscal period focus.	Report fiscal period focus is a required property of a report.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.		ABox	
Every Economic Entity <i>Has_Property</i> Entity registrant name .	Entity registrant name is a required property of an economic entity.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.		ABox	
Every Economic Entity <i>Has_Property</i> Entity central index key .	Entity central index key is a required property of an economic entity.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.		ABox	

³ For more information see *Understanding the Mechanics of an SEC-type XBRL-based Digital Financial Report*, http://www.xbrlsite.com/2015/Library/UnderstandingTheMechanicsOfAnSECTypeDigitalFinancialReport.pdf

Every Economic Entity Has_Property Standard industry classification.	Standard industry classification is a required property.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.	ABox
Every Economic Entity Has_Property Current fiscal year end.	Current fiscal year end is a required property of an economic entity.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.	ABox
Every Economic Entity Has_Property Current reporting status.	Current reporting status is a required property of an economic entity.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.	ABox
Every Economic Entity Has_Property Voluntary filer status.	Voluntary filer status is a required property of an economic entity.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.	ABox
Every Economic Entity Has_Property Entity filer category.	Entity filer category is a required property of an economic entity.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.	ABox
Every Economic Entity Has_Property Well known seasoned issuer.	Well known seasoned issuer is a required property of an economic entity.	6,751 reports in the set of 6,751 are consistent with this. Required by EFM and enforced by SEC inbound validation.	ABox
Every Level 1 Text Block is a Block.	Level 1 Text Blocks (note level text blocks) which contain information for each note follow immediately after each statement, one note per network.	The EFM specifies Level 1, Level 2, Level 3 text blocks and each of these types is made apparent in the US GAAP XBRL Taxonomy. As such, the different types can be distinguished, but I have not done so yet.	ТВох
Every Level 2 Text Block is a Block .	Level 2 Text Blocks (policy level text blocks) must follow immediately after the note text blocks.	The EFM specifies Level 1, Level 2, Level 3 text blocks and each of these types is made apparent in the US GAAP XBRL Taxonomy. As such, the different types can be distinguished, but I have not done so yet.	ТВох

Every Level 3 Text Block is a Block .	Level 3 Text Blocks (disclosures level text blocks) must follow immediately after the policy text blocks.	The EFM specifies Level 1, Level 2, Level 3 text blocks and each of these types is made apparent in the US GAAP XBRL Taxonomy. As such, the different types can be distinguished, but I have not	ТВох	
	1. 1.00 . 11/11	done so yet.		
Every Level 4 Detail is a Block .	Level 4 Detail (disclosure detail level) must follow immediately after the disclosure level text blocks)	Essentially, anything that is not a type of text block is detail.	TBox	
Every Level 3 Text Block Part_Of Level 1 Text Block	A Level 3 text block coveys information which is also conveyed in some Level 1 text block which exists.	By induction and per EFM, every Level 3 text block must be part of some note represented by a Level 1 text block.	TBox	
Every Level 4 Detail Part_Of Level 1 Text Block	A Level 4 Detail disclosure coveys information which is also conveyed in some Level 1 text block which exists.	By induction and per EFM, every Level 4 detail must be part of some note represented by a Level 1 text block.	ТВох	
Every Level 4 Detail Equivalent_To Level 3 Text Block	A Level 4 Detail disclosure coveys information which is also conveyed in	This seems logical, however this may not be a requirement of the EFM. This	ТВох	
	some Level 3 text block which exists.	is unclear.		

US GAAP Based Financial Report⁴ (including SEC-style financial report and private company financial report)

The following is a summary of the things and relations between things that extend the SEC-style financial report (really, these are applicable to any US GAAP based financial report):

Axioms in Pseudo Human Readable	Description	Empirical evidence from XBRL-based	First order logic	Category	SECXBRL.info API
Controlled Natural Language		public company financial filings			syntax
Every Disclosure is a Thing .	A disclosure is a set of one or more blocks which together make up something that is disclosed within a financial report.	The US GAAP XBRL Taxonomy can be broken down into approximately 1,000 specific disclosures using three approaches: Level 3 text blocks indicate disclosures, Level 4 detailed disclosures in public company filings indicate disclosures, the US GAAP XBRL Taxonomy itself can indicate disclosures. Names can be assigned to each identified disclosure.		ТВох	
Every Topic is a Thing .	A topic can be used to organize disclosures (disclosures can be organized by topic): Because there are so many different disclosures; the notion of a topic was created as a way to organize or categorize disclosures into sensible groups.	The FASB publishes financial reporting standards which can be organized into approximately 120 topics.		ТВох	
Every Exemplar is a Thing .	An exemplar ⁵ is a disclosure which has been made within some financial report which has been submitted to the SEC and serves as an example of what a disclosure might look like.	An exemplar is simply any disclosure from an report filed with the SEC that can be observed.		ТВох	
Every Prototype is a Thing .	A prototype ⁶ describes a disclosure.	A prototype is something that anyone can make up as what they consider a good example of the pieces of a specific disclosure.		ТВох	

⁴ See Financial Report Semantics and Dynamics Theory, http://xbrl.squarespace.com/fin-report-sem-dyn-theory/
⁵ See Prototype Theory, http://en.wikipedia.org/wiki/Prototype_theory
⁶ See Prototype Theory, http://en.wikipedia.org/wiki/Prototype_theory

Every Disclosure Has_Property Topic .	A disclosure can be organized within	Every disclosure can be organized into	ABox
Every Disclosure mas_rroperty Topic.	some topic.	one of the 120 or so topics.	ABOX
Every Component Has Property	A component is used to represent	Every component within every report	ABox
Disclosure.	disclosures which are reported within a	can be identified as being a complete	ABOX
Disclosure.	•		
5 5 5 10 1	financial report.	disclosure or some part of a disclosure.	
Every Primary Financial Statement is a	Primary financial statements are	For convenience.	TBox
Disclosure.	considered disclosures in this model;		
	some people might call this by some		
	other term.		
Every Balance sheet is a Primary	A balance sheet or statement of financial	Defined by conceptual framework.	TBox
Financial Statement.	position.		
Every Income Statement is a Primary	An income statement or statement of	Defined by conceptual framework.	TBox
Financial Statement.	financial condition.		
Every Statement of Comprehensive	A statement of comprehensive income.	Defined by conceptual framework.	TBox
Income is a Primary Financial			
Statement.			
Every Cash flow Statement is a Primary	A cash flow statement.	Defined by conceptual framework.	TBox
Financial Statement.			
Every Statement of Changes in Equity is	A statement of changes in equity.	Defined by conceptual framework.	TBox
a Primary Financial Statement.			
Every Statement of Income and	A combined income statement and	Allowed by conceptual framework.	TBox
Comprehensive Income is a Primary	statement of comprehensive income.		
Financial Statement.			
Every Report Has_Part Balance Sheet .	A balance sheet is required	6,751 out of 6,751 reports examined	ABox
		have a balance sheet.	
Every Report Has_Part Income	An income statement is required.	6,751 out of 6,751 reports examined	ABox
Statement.		have an income statement or a	
		combined income statement and	
		statement of comprehensive income.	
Every Report Has_Part Cash Flow	A cash flow statement is required	6,751 out of 6,751 reports examined	ABox
Statement.	·	have a cash flow statement.	
Every Report Has_Part Balance Sheet.	A balance sheet is required	6,751 out of 6,751 reports examined	ABox
		have a balance sheet.	

Every Balance Sheet Has_Part Assets.	A balance sheet is required to report the	99.69% of entities explicitly reported	ABox	
	concept Assets.	Assets or the value of Assets could be		
		unambiguously imputed using other		
		reported information. The .3% was		
		observed to be errors.		
Every Balance Sheet Has_Part Liabilities	A balance sheet is required to report the	99.69% of entities explicitly reported	ABox	
and Equity.	concept Liabilities and equity.	Liabilities and equity or the value of		
		Liabilities and equity could be		
		unambiguously imputed using other		
		reported information. The .3% was		
		observed to be errors.		
Every Equation (Assets = Liabilities and	A balance sheet is required to balance;	99.69% of entities reported Assets,	ABox	
equity) Is_A Fundamental Accounting	Assets = Liabilities and Equity	reported Liabilities and equity, and		
Relation.		Assets = Liabilities and equity. The .3%		
		was observed to be errors.		
Every Income Statement Has_Part Net	An income statement reports Net	94.46% of entities explicitly reported	ABox	
Income (Loss).	income (loss).	Net income (loss) or Net income (loss)		
		could be unambiguously imputed using		
		other reported information. The 5.54%		
		was observed to be errors.		
Every Cash Flow Statement Has_Part	A cash flow statement reports Net Cash	95.15% of entities explicitly reported	ABox	
Net Cash Flow.	Flow.	Net cash flow or Net cash flow could be		
		unambiguously imputed using other		
		reported information. The 4.85% was		
		observed to be errors.		
Every Equation (Net Cash Flow = Net	Net cash flow is comprised of the parts	95.15% of entities explicitly reported	ABox	
Cash Flow, Operating Activities + Net	from operating, financing, and investing	Net cash flow or Net cash flow could be		
Cash Flow, Financing Activities + Net	activities plus exchange gains (losses).	unambiguously imputed using other		
Cash Flow, Investing Activities +		reported information; and net cash flow		
Exchange gains (losses)) Is_A		from operating, financing, and investing		
Fundamental Accounting Relation.		activities plus exchange gains (losses)		
		equaled net cash flow. The 4.85% was		
		observed to be errors.		

Report Frames (US GAAP Based Financial Report)

The following is a summary of the things and relations between things that extend the SEC-style financial report (really, these are applicable to any US GAAP based financial report) for the notion of a report frame or reporting pallet. Different report frames have different types of relations, relations are universally true only for a specific report frame:

Axioms in Pseudo Human Readable Controlled Natural Language	Description	Empirical evidence from XBRL-based public company financial filings	First order logic	Category	SECXBRL.info API syntax
Every Report Frame is a Thing .	A report frame or reporting pallet is a set of properties which characterizes how an economic entity represents their primary financial statements.	Every report was found to fit within one of 101 identified report frames.		ТВох	
Every Industry is a Thing .	An industry is the industry sector or accounting activity which is used by an entity when creating a financial report. Examples include commercial and industrial, interest based revenues, securities based revenues, insurance based revenues, etc.	Every report was found to be identifiable with one of approximately 450 industries and SIC codes.		ТВох	
Every Balance Sheet Format is a Thing.	A balance sheet format is the style by which a balance sheet is presented within a financial report. Examples are classified balance sheet, unclassified balance sheet, liquidity based balance sheet.	6,751 reports of 6,751 had a balance sheet whose format was either "classified" or "unclassified".		ТВох	
Every Income Statement Format is a Thing.	An income statement format is the style by which an income statement is presented within a financial report. Examples are single-step and multi-step.	6,751 reports of 6,751 had an income statement format which was either "single-step" (did not include gross profit) or "multi-step" (included gross profit).		ТВох	
Every Cash Flow Statement Format is a Thing.	A cash flow statement format is the style by which a cash flow statement is presented within a financial report. The two styles are to include exchange gains within net cash flow and to include net cash flow as part of the roll forward of cash and cash equivalents.	Every one of the 6,751 reports had a cash flow statement.		ТВох	

Every Income From Equity Method	An income from equity method		TBox	
Investments Placement is a Thing.	investments placement describes the		IBOX	
investments Placement is a Thing.	location of the line item income from			
	equity method investments on the			
	income statement. Examples include,			
	within revenues, part of taxes, within			
	special reporting items, etc.			
Every Operating income (loss) Reported	Operating income (loss) reported		TBox	
is a Thing .	describes whether the line item			
	operating income (loss) is or is not			
	reported within the income statement.			
	Examples include YES and NO.			
Every Report Frame Has_Part Industry .	A report frame has the part industry.		ABox	
Every Report Frame Has_Part Balance	A report frame has the part balance		ABox	
Sheet Format.	sheet format.			
Every Report Frame Has_Part Income	A report frame has the part income		ABox	
Statement Format.	statement format.			
Every Report Frame Has_Part Cash	A report frame has the part cash flow		ABox	
Flow Statement Format.	statement format.			
Every Report Frame Has_Part Income	A report frame has the part income from		ABox	
From Equity Method Investments	equity method investments placement.			
Placement.				
Every Report Frame Has_Part	A report frame has the part operating		ABox	
Operating income (loss) Reported.	income (loss) reported.			
Every Fundamental Accounting Concept	The notion of a fundamental accounting		TBox	
is a Thing .	concept exists. An examples of			
	fundamental accounting concepts			
	include Assets, Liabilities, Current assets,			
	Equity, Net income (loss), etc.			
Every Fundamental Accounting Concept	A fundamental accounting concept		TBox	
Relation is a Business Rule.	relation is a business rule that is			
	universally applicable to every financial			
	report which has a specific report frame.			
	The value of the business rule is always			
	true.			
	-: -: -:			

Every Equation (Assets = Current assets	????????		
+ Noncurrent assets) is a Fundamental			
Accounting Concept Relation WHERE			
(Balance Sheet Format = Classified).			
Every Equation (<i>Liabilities = Current</i>	????????		
liabilities + Noncurrent liabilities) is a			
Fundamental Accounting Concept			
Relation WHERE (Balance Sheet Format			
= Classified).			