

Review of Technical Changes for Vendors & Data Providers

Proposed 2017 US GAAP Taxonomy

October 6, 2016



FINANCIAL
ACCOUNTING
STANDARDS BOARD

Agenda

- Introduction of speakers
- Typed dimensions
- Extensible enumerations
- Taxonomy template
- Taxonomy package
- Change Notes/Taxonomy Implementation Notes

Introduction of Speakers

- Walter Hamscher
 - Senior IT Program Manager, Office of Structured Disclosure, U.S. Securities and Exchange Commission
- Campbell Pryde
 - President and CEO, XBRL US
- Paul Warren
 - Technical Director, XBRL International
- Louis Matherne
 - Chief of Taxonomy Development, FASB
- David Shaw
 - XBRL Project Manager, FASB

Before We Begin...

- Purpose of today's webcast is to discuss the “how” and not the “why”
- If you are interested in the why:
 - Release notes:
 - <https://tinyurl.com/hbntm5g>
 - Replay of FASB Webcast:
 - <https://tinyurl.com/h46cqo2>
- Additional information is included in the Technical Guide:
 - <https://tinyurl.com/z8exmaj>

Removing Ambiguity in Taxonomy Use

- Reducing and constraining dimensions used in hypercubes
 - Positive Integer typed dimensions used to move properties to line items
 - *Associated Fact* dimensions
 - Pushing metadata to the line items
 - Extensible enumerations constrains line items values
- Not abandoning explicit dimensions

Typed Dimensions

- Explicit dimensions use members defined in the definition linkbase; either base or extension taxonomy
- Typed dimensions are identified by the presence of the `xbrldt:typedDomainRef` attribute
 - Defines the simple data type that the members are reported as
 - Date
 - Year
 - String
 - Positive integer
 - ...
 - Member values are specified in the instance document

Typed Dimensions

Typed dimensions are defined by Dimensions specification

- <https://specifications.xbrl.org/spec-group-index-group-dimensions.html>

Typed Dimensions

- Proposed Taxonomy includes positive integer data type
 - Constrains the members in the instance to only positive integers (1, 2, 3, 4, etc.)
- Positive integer members as used here do not have semantic meaning and are only used to associate related information
- Included in the relationship groups for Leases, Revenue, and Retirement Benefits

Typed Dimensions

Example

```
<xs:element abstract="true" id="us-gaap_LeaseClassificationAxis" name="LeaseClassificationAxis" nillable="true" substitutionGroup="xbrldt:dimensionItem" type="xbrli:stringItemType" xbrli:periodType="duration" xbrldt:typedDomainRef="#us-gaap_LeaseClassificationAxis.domain"/>
<xs:element name="LeaseClassificationAxis.domain" id="us-gaap_LeaseClassificationAxis.domain" nillable="true" type="xs:positiveInteger"/>
```

```
<xbrli:context id="FiscalYear_Duration_01">
  <xbrli:entity>
    <xbrli:identifier scheme="http://www.sec.gov/CIK">0000000000</xbrli:identifier>
    <xbrli:segment>
      <xbrldi:typedMember dimension="us-gaap:LeaseClassificationAxis">
        <us-gaap:LeaseClassificationAxis.domain>01
      </us-gaap:LeaseClassificationAxis.domain>
      </xbrldi:typedMember>
    </xbrli:segment>
  </xbrli:entity>
  <xbrli:period>
    <xbrli:startDate>2016-01-01</xbrli:startDate>
    <xbrli:endDate>2016-12-31</xbrli:endDate>
  </xbrli:period>
</xbrli:context>
<xbrli:context id="FiscalYear_Duration_02">
  <xbrli:entity>
    <xbrli:identifier scheme="http://www.sec.gov/CIK">0000000000</xbrli:identifier>
    <xbrli:segment>
      <xbrldi:typedMember dimension="us-gaap:LeaseClassificationAxis">
        <us-gaap:LeaseClassificationAxis.domain>02
      </us-gaap:LeaseClassificationAxis.domain>
      </xbrldi:typedMember>
    </xbrli:segment>
  </xbrli:entity>
  <xbrli:period>
    <xbrli:startDate>2016-01-01</xbrli:startDate>
    <xbrli:endDate>2016-12-31</xbrli:endDate>
  </xbrli:period>
</xbrli:context>
```

Typed Dimensions








Open items for Final 2017 Taxonomy

- May add different data types than positive integer
 - Retirement benefits may consider string
 - Revenue may consider different date data types
 - Year
 - Year-month
 - Duration
- Tool sets should be able to accommodate typed dimensions with various data types

Typed Dimensions

Effect of member data type on rendering

- Numeric, date, duration: ordered as schema data type
- Enumerated: enumeration order
- Strings: lexical order

Element	pref. label
 Presentation Link	
 1 - Document - Role 1 (http://edgar/role/role1)	
 Text Block	
 Table	
 Pmt	terselabel
 Info:	terselabel
 Cash Disbursement	

Role 1	3 Months Ended
	Jul. 01, 2009 USD (\$)
Pmt: 1	
Info:	
Cash Disbursement	\$ 12,345
Pmt: 2	
Info:	
Cash Disbursement	23,456
Pmt: 3	
Info:	
Cash Disbursement	34,567
Pmt: 4	
Info:	
Cash Disbursement	\$ 45,678

Typed Dimensions

Questions

Extensible Enumerations

List of values that filers can augment

- Base list is defined in the base taxonomy definition linkbase
- Filer adds values through their extension taxonomy
- MUST reference base taxonomy linkrole, i.e., not in an extended linkrole (ELR)

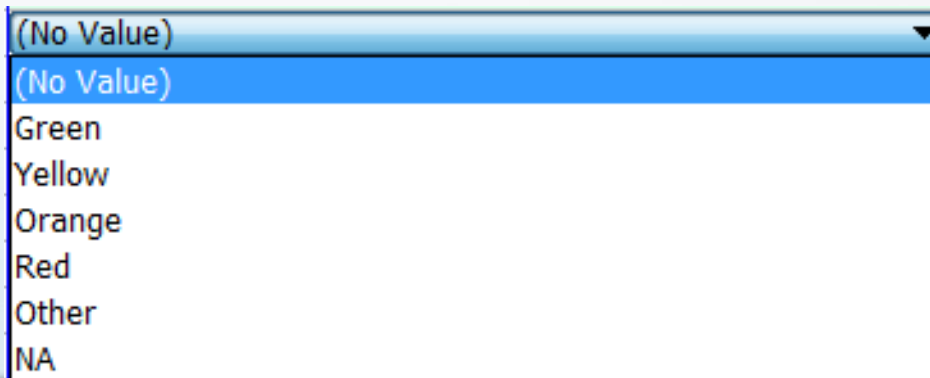
Extensible Enumerations

Contrast with enumerated list:

- Provide possible values defined in us-types-draft-2017-01-31.xsd:

```
<xs:complexType abstract="false" mixed="false" name="zoneStatusItemType">
  <xs:simpleContent>
    <xs:restriction base="xbrli:stringItemType">
      <xs:enumeration value="Green"/>
      <xs:enumeration value="Yellow"/>
      <xs:enumeration value="Orange"/>
      <xs:enumeration value="Red"/>
      <xs:enumeration value="Other"/>
      <xs:enumeration value="NA"/>
      <xs:attributeGroup ref="xbrli:nonNumericItemAttrs"/>
    </xs:restriction>
  </xs:simpleContent>
</xs:complexType>
```

- Any element with this data type can only report the values listed above



(No Value) ▼

(No Value)

Green

Yellow

Orange

Red

Other

NA

Extensible Enumerations

- Filers ability to add possible values is made available by new attributes included:
 - enum:linkrole
 - enum:domain
- To use the Extensible Lists the extension taxonomy **must** reference the domain-member relationships:
 - <http://xbrl.fasb.org/us-gaap/draft/elts/us-gaap-eedm-def-draft-2017-01-31.xml>
- Additional part named enum:headUsable that may be included

Extensible Enumerations

- Extensible enumerations defined in the specification:
 - Specification
 - <https://specifications.xbrl.org/spec-group-index-extensible-enumerations.html>
 - Schema
 - <http://www.xbrl.org/2014/extensible-enumerations.xsd>
- XII is currently working on Extensible Enumerations 1.1
 - Allows multiple QName values to be reported

Extensible Enumerations

Example

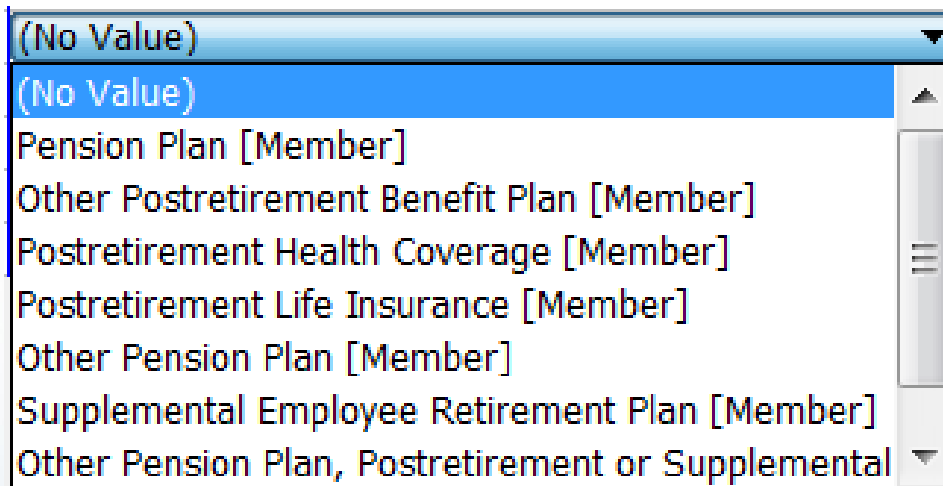
```
<xs:element id="us-gaap_RetirementPlanExtensibleList" name="RetirementPlanExtensibleList" nillable="true"
substitutionGroup="xbrli:item" type="enum:enumerationItemType" xbrli:periodType="duration"
enum:linkrole="http://fasb.org/us-gaap/role/eedm/ExtensibleEnumerationLists" enum:domain="us-gaap:RetirementPlanDomain"/>
<xs:element abstract="true" id="us-gaap_RetirementPlanSponsorLocationDomain" name="RetirementPlanSponsorLocationDomain"
```

Name	Value
Schema	
name	RetirementPlanExtensibleList
namespace	http://fasb.org/us-gaap/draft-2017-01-31
prefix	us-gaap
abstract	false
id	us-gaap_RetirementPlanExtensibleList
nillable	true
substitution group	xbrli:item
type	enum:enumerationItemType
XBRL	
base item type	QNameItemType
period type	duration
Extensible Enumeration	
link role	Extensible Enumeration Domain Members
domain	Retirement Plan [Domain]
head usable	false

- Extensible Enumeration Domain Members
 - Assets [Abstract]
 - Cumulative Effect of New Accounting Principle in Period of Adoption [Abstract]
 - Income Statement [Abstract]
 - Liabilities [Abstract]
 - Retirement Plan [Domain]
 - Pension Plan [Member]
 - Other Postretirement Benefit Plan [Member]
 - Other Pension Plan [Member]
 - Supplemental Employee Retirement Plan [Member]
 - Other Pension Plan, Postretirement or Supplemental Plans [Member]
 - Postemployment Retirement Benefits [Member]
 - Retirement Plan Funding Status [Domain]
 - Retirement Plan Sponsor Location [Domain]
 - Retirement Plan Tax Status [Domain]

Extensible Enumerations

Example



Extensible Enumerations

Open items for Final 2017 Taxonomy

- May include additional for Final Taxonomy
- Preference is to use Extensible Enumerations 1.1, which allows for multiple QName values to be reported
 - “The company maintained pension plans in *Poland, France* and *Norway*.”
 - Fact would be:

```
<us-gaap:SponsorLocationExtensibleList>  
  country:PL  
  country:FR  
  country:NO  
</us-gaap:SponsorLocationExtensibleList>
```

Extensible Enumerations

Questions

Taxonomy Template [Disclosure Template]

Set of base taxonomy presentation, calculation, and definition linkbase files that can be referenced in extension taxonomies.

- Differs from other linkbases in two important ways:
 - EDGAR will allow the linkbases to appear in the DTS of a submission (i.e., it will appear in edgartaxonomies.xml)
 - Arcs have priority=10, so that EDGAR will not allow filers to remove or override them if referenced

Taxonomy Template

- One example has been included in the base taxonomy that can be referenced in a filer's extension taxonomy, based on an example in the Taxonomy Implementation Guide for Disposal Groups and Discontinued Operations
 - When a filer's disclosures matches one of the examples, the filer need not recreate the modeling in their extension taxonomy
 - Instead reference the template in the Taxonomy (LR 775100)
- Template can still be augmented in the extension taxonomy to more precisely match the filer's disclosure

Taxonomy Template

■ File locations

- Definition linkbase
 - <http://xbrl.fasb.org/us-gaap/draft/dis/us-gaap-dis-disopstmp01-def-draft-2017-01-31.xml>
- Presentation linkbase
 - <http://xbrl.fasb.org/us-gaap/draft/dis/us-gaap-dis-disopstmp01-pre-draft-2017-01-31.xml>
- Calculation linkbase
 - <http://xbrl.fasb.org/us-gaap/draft/dis/us-gaap-dis-disopstmp01-cal-draft-2017-01-31.xml>

Taxonomy Template

Open items for Final 2017 Taxonomy

- Considering additions for Retirement Benefits
- Other implementation guides for 2018

Taxonomy Template

Questions

Taxonomy Package

- Manifest file included with the ZIPPED draft Taxonomy that allows compliant tools to identify the entry points automatically
- Manifest file also provides mappings from public URLs (e.g. <http://xbrl.fasb.org/us-gaap/...>) to files in the ZIP
- Conforms to XBRL International Taxonomy Package 1.0 specification
 - <https://specifications.xbrl.org/spec-group-index-taxonomy-packages.html>

Taxonomy Package

Questions

Change Notes

Taxonomy changes were previously identified in the base taxonomy using Change Label, Deprecated Date Label and Deprecated Label.

- Starting with the proposed 2017 Taxonomy Update, all taxonomy changes are identified using the Change Note (CN) consistent with Taxonomy Implementation Notes (TIN) construct introduced with the 2016 Taxonomy Update.
- The information that was previously in the label section can be viewed in the reference section of the Taxonomy alongside the TINs and Accounting Standards Codification references.

Change Notes

Structure

- <http://xbrl.fasb.org/us-gaap/draft/elts/us-parts-cn-draft-2017-01-31.xsd>

Name	Type Local Name	Doc. (en)
TaxonomyVersion	gYear	Taxonomy Version in [CCYY] format
ChangeDate	gYearMonth	Taxonomy change date in [CCYY-MM] format
Source	string	Source for change label. Examples include: ASU - Extraordinary Items; ASU - Revenue Recognition
NewElement	boolean	Identifies new elements
ElementDeprecated	boolean	Identifies deprecated elements
ModifiedDeprecatedLabel	boolean	Identifies Modified Deprecated Label
ModifiedReferences	boolean	Identifies reference changes
ModifiedLabels	boolean	Identifies Modified Standard, Period Start, Period End, or Total Labels
ModifiedDocumentation	boolean	Identifies Modified Documentation Label
PreviousDocumentation	string	Modified Documentation Label. Originally read as follows
DeprecatedDate	date	Deprecation date in [CCYY-MM] format
DeprecatedLabel	string	Deprecation label
ModifiedBalanceType	boolean	Identifies Modified Balance Type Label
ModifiedPeriodType	boolean	Identifies Modified Period Type Label
ModifiedDataType	boolean	Identifies Modified Data Type Label

Change Notes

Rendering

Deferred Policy Acquisition Costs, Period Increase (Decrease) {22}

Labels

Type	Lang	Label
Standard Label	en-US	Deferred Policy Acquisition Costs, Period Increase (Decrease) {22}
Documentation	en-US	Amount of increase (decrease) in deferred policy acquisition cost.
Total Label	en-US	Deferred Policy Acquisition Costs, Period Increase (Decrease), Total {22}

References

Type	Reference	
Change Notes	TaxonomyVersion	2017
	ChangeDate	2016-07
	ModifiedReferences	true
Change Notes	TaxonomyVersion	2016
	ChangeDate	2015-11
	ModifiedDocumentation	true
	PreviousDocumentation	Total net Increase or Decrease in changes to deferred policy acquisition costs due to one or more transactions, including amortization of costs and modifications or internal replacements of existing insurance contracts.
Taxonomy Implementation Note	PublishDate	2015-11
	Positive XBRL Value	Enter a positive XBRL value for increase.

Change Notes

Open items for Final 2017 Taxonomy

- Add additional part to include the ASU number
 - Custom data type will be created
- Make deprecation information consistent across each of the covered Taxonomy years
- Attempt to pare down the parts included in the deprecation information

Change Notes

Questions

Taxonomy Implementation Notes

- TINs assist in appropriate element selection
 - “Element is modeled from the income statement perspective. Element may be used in the Statement of Operations.”
- Provide guidance on adoption of new ASU’s
 - “If Accounting Standards Update 2016-01 is adopted, this element may be appropriate for periods of and after adoption.”
- Provide guidance on value polarity
 - “Enter a positive XBRL value for net increases.”
 - “Enter a negative XBRL value for net decreases.”

Taxonomy Implementation Notes

Structure

- <http://xbrl.fasb.org/us-gaap/draft/elts/us-parts-tin-draft-2017-01-31.xsd>

Name	Type Local Name	Doc. (en)
PublishDate	gYearMonth	Publish date for Taxonomy Implementation Note in [YYYY-MM] format
Source	string	Source for Taxonomy Implementation Note. Examples include: Taxonomy Implementation Guide [TIG]; Accounting Standards Update [...]
SourceName	string	Source name, example: Subsequent Events
SourceVersion	string	Source version
Positive_XBRL_Value	string	XBRL value to be entered as positive, when reported amount is present; examples include facts reported as [Gain] [Increase] [Accumul...]
Negative_XBRL_Value	string	XBRL value to be entered as negative, when reported amount is present; examples include facts reported as [Loss] [Decrease] [Accum...]
Note	string	Taxonomy implementation note.
AlternateElement	QName	Potential alternate element name(s).
AlternateElementForPeriodOfAndAfterAdo...	QName	Potential alternate element names(s) for period of and after adoption.
AlternateElementForPeriodsPriorToAdoption	QName	Potential alternate element names(s) for periods prior to adoption.
TransitionOption	QName	Transition options for new ASU. Appropriate values include: [Retrospective] or [Prospective]
URI	anyURI	URI link to Taxonomy Implementation Guide.

Taxonomy Implementation Notes

Rendering

Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Deferred Tax Liabilities {43}			
Taxonomy Implementation Note	Note	If Accounting Standards Update 2015-17 is adopted and applied retrospectively, this element may be appropriate for a deferred tax liability assumed in a business combination that previously would have been considered a deferred tax liability assumed in a business combination classified as current or noncurrent.	
	PublishDate	2015-11	
	Source	ASU	
	SourceName	Taxes	
Taxonomy Implementation Note	TransitionOption	Retrospective	
	Note	If Accounting Standards Update 2015-17 is adopted and applied prospectively, this element may be appropriate for prospective periods for a deferred tax liability assumed in a business combination that previously would have been considered a deferred tax liability assumed in a business combination classified as current or noncurrent.	
	PublishDate	2015-11	
	Source	ASU	
Taxonomy Implementation Note	SourceName	Taxes	
	AlternateElementForPeriodsPriorToAdoption	BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedDeferredTaxLiabilitiesNoncurrent	
	TransitionOption	Prospective	
	Note	If Accounting Standards Update 2015-17 is adopted and applied prospectively, this element may be appropriate for prospective periods for a deferred tax liability assumed in a business combination that previously would have been considered a deferred tax liability assumed in a business combination classified as current or noncurrent.	
Taxonomy Implementation Note	PublishDate	2016-02	
	Source	ASU	
	SourceName	Taxes	
	AlternateElementForPeriodsPriorToAdoption	BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedDeferredTaxLiabilitiesCurrent	
Taxonomy Implementation Note	TransitionOption	Prospective	
	Note	If Accounting Standards Update 2015-17 is adopted and applied prospectively, this element may be appropriate for prospective periods for a deferred tax liability assumed in a business combination that previously would have been considered a deferred tax liability assumed in a business combination classified as current or noncurrent.	
	PublishDate	2016-02	
	Source	ASU	
Taxonomy Implementation Note	SourceName	Taxes	
	AlternateElementForPeriodsPriorToAdoption	BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedDeferredTaxLiabilitiesCurrent	
	TransitionOption	Prospective	
	Note	If Accounting Standards Update 2015-17 is adopted and applied prospectively, this element may be appropriate for prospective periods for a deferred tax liability assumed in a business combination that previously would have been considered a deferred tax liability assumed in a business combination classified as current or noncurrent.	

Taxonomy Implementation Notes

Open items for Final 2017 Taxonomy

- Change the TransitionOption part from QName to an enumerated list of options
 - Retrospective
 - Prospective
 - Modified Retrospective
 - Modified Prospective
- Add part to explain changes to the TIN from the previous Taxonomy version

Taxonomy Implementation Notes

Questions