Meta Model and Policy Election Element Relationships

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Meta Model Relationships Overview
Meta Model Relationships Overview

Purpose

- Provide more expressive relationships
  - Semantic meaning of the elements
    o Assignment of traits/attributes
  - Accounting relevant relationships
- Assist preparers with element selection / searching for elements
  - Better articulation of element properties
- Facilitates writing business rules / validation checks
- Identify inconsistencies in taxonomy modeling
- Longer term, could provide preparers with a means of anchoring extensions that is more expressive than wider-narrower

*Current processes are not impacted*
Meta Model Relationships Overview

Included relationships

- Instant-acrual
- Instant-contra
- Instant-inflow
- Instant-outflow
- Trait-concept
- Trait-domain
- Class-subclass
- Concept-dimensional-equivalent
Meta Model Relationships Overview

- **Instant-accrual**
  - Indicates the relationship between an instant element and a duration accrual element that represents the provision of expense or income against the instant element (typically an asset or liability)
  - Noncash transactions booked to an instant account
  - Source element is instant, target element is duration
Meta Model Relationships Overview

- **Instant-accrual**
  - Benefits users by:
    - Providing accounting relationships between the expense and the contra asset or asset
    - Ensuring the balance is flowing into the applicable contra account
    - Assisting with identifying non-cash adjustments
  - Example:
Meta Model Relationships Overview

- **Instant-contra**
  - Indicates the relationship between the instant element and its offsetting element
  - Both elements in the relationship should be instant
  - If source element has a debit balance, target element has a credit balance and vice versa
Meta Model Relationships Overview

- Instant-contra
  - Benefits users by:
    - Providing accounting relationship between contra account and asset or liability it offsets
    - Ensuring contra accounts are properly classified by users
  - Example:

![Hierarchy: Definition
Relationship: instant-contra

- Finite-Lived Intangible Assets, Gross
- Finite-Lived Intangible Assets, Accumulated Amortization]
Meta Model Relationships Overview

- **Instant-inflow**
  - Indicates the relationship between the instant element and the inflow duration elements
  - Instant element with a debit balance will have an associated inflow element with a debit balance
  - Instant element with a credit balance will have an associated inflow element with a credit balance
  - US GAAP Financial Reporting Taxonomy (GRT) contains some inconsistencies
Meta Model Relationships Overview

- **Instant-inflow**
  - Benefits users by:
    - Providing accounting relationships between elements that represent inflows or increases to balance sheet accounts
    - Delineating between cash inflow elements and noncash accrual elements
  - Example:

![Diagram of Meta Model Relationships Overview]
Meta Model Relationships Overview

- **Instant-outflow**
  - Indicates the relationship between the instant element and the outflow duration elements
  - Instant element with a debit balance will have an associated outflow element with a credit balance
  - Instant element with a credit balance will have an associated outflow element with a debit balance
  - GRT contains some inconsistencies
Meta Model Relationships Overview

- **Instant-outflow**
  - Benefits users by:
    - Providing accounting relationships between elements that represent outflows or decreases to balance sheet accounts
    - Delineating between cash outflow elements and noncash expense elements
  - Example:

![Diagram](image)
Meta Model Relationships Overview

- **Trait-concept**
  - Indicates a singular trait of an element
    - Examples of traits: operating, financing, investing, current, noncurrent, estimated accrual, continuing, discontinued, etc.
  - Trait is conveyed with a domainItemType element
  - Relationship between the trait and the element
  - Used with class-subclass relationship
    - Subclass of a class element inherits the trait
Meta Model Relationships

- **Trait-concept**
  - Benefits users by:
    - Allowing users to search for elements based upon accounting traits
    - Autogenerating lists of elements based upon traits
  - Example:
Meta Model Relationships Overview

- **Trait-domain**
  - Indicates that the target domain trait element contains the list of values for the source trait type
  - No element that is the target of the trait-concept relationship can have more than one trait from a trait’s domain
  - Relationship between two domainItemType elements
  - Works with domain-member and trait-concept relationships
Meta Model Relationships Overview

- **Trait-domain**
  - Benefits users by:
    - Ensures that conflicting accounting attributes are not assigned to an element
  - Example:

![Diagram showing relationships between hierarchy, definition, and relationship types.](image-url)
Meta Model Relationships Overview

- **Class-subclass**
  - Indicates the relationship that the target element has the same attributes of the source element with further qualifiers
  - All the traits of the class source element are also applicable to the target subclass element
  - Fundamental to any hierarchical construct
    - Programming, inheritance, and accounting model
Meta Model Relationships Overview

- Class-subclass
  - Benefits users by:
    - Easier to understand the traits of every element
  - Example:

![Diagram of Hierarchy: Definition, Relationship: class-subclass, with examples Assets, Current and Prepaid Expense, Current]
Meta Model Relationships Overview

- **Concept-dimensional-equivalent**
  - Indicates the element that has a dimensional equivalent with another element and a dimension-member combination
  - Source element is the singular element, and the target elements are combined to synthetically create the same concept
    - Target elements consist of:
      - Primary element of same data type
      - Dimension element
      - domainItemType element
Meta Model Relationships Overview

- Concept-dimensional-equalivalent
  - Benefits users by:
    - Identifying equivalent accounting concepts to assist users in comparative analyses
  - Example:

<table>
<thead>
<tr>
<th>Hierarchy:</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relationship:</td>
<td>concept-dimensional-equalivalent</td>
</tr>
<tr>
<td>Retained Earnings, Unappropriated</td>
<td></td>
</tr>
<tr>
<td>Stockholders' Equity, Including Portion Attributable to Noncontrolling Interest</td>
<td></td>
</tr>
<tr>
<td>Equity Components [Axis]</td>
<td></td>
</tr>
<tr>
<td>Retained Earnings, Unappropriated [Member]</td>
<td></td>
</tr>
</tbody>
</table>
Status

- Included with 2024 GRT
- Meta Model will continue to be developed in 2024
  - Relationships to be completed
  - Identify additional relationship types
- Education/guidance/outreach ongoing
Accessing the Taxonomy

- Meta Model posted in TORCS

- Taxonomy files available at:
  - https://xbrl.fasb.org/us-gaap/2024/meta/
Policy Election Relationships
Policy Election Relationships

- **Purpose**
  - Provide a relationship in the GRT that links the policy election elements with the related monetary/numeric elements.
    - Currently, policy information is infrequently tagged
      - Difficult to programatically collect

- **Objective is to provide relationships that can be leveraged**
  - Preparers to identify the policy elements for tagging
  - Users to identify the policy elements for consumption
  - Write business rules.
Policy Election Relationships

Example

![Diagram of Policy Election Relationships]

- Property, Plant and Equipment, Depreciation Method [Extensible Enumeration]
  - Depreciation
  - Property, Plant and Equipment, Gross
  - Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment
Policy Election Relationships

Taxonomy Online Review and Comment System (TORCS)
Thank You