

# 1. Member Arrangement Pattern Examples

This section provides examples for specific member arrangement patterns<sup>1</sup>.

## 1.1. Whole-part

A *whole-part* member arrangement pattern is equivalent in terms of meaning to a roll up. However, rather than being represented using a set of Concepts within a [Line Items], a whole-part member arrangement pattern is represented using the a set of [Member]s of an [Axis].

A whole-part represents something composed exactly of their parts and nothing else; the sum of the parts is equal to the whole. Essentially, a whole-part relation is equivalent to a [Roll Up].

### 1.1.1. Visual Example

Component: (Network and Table)			
Network	Director Compensation		
Table	Director Compensation [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Period [Axis]	2010-01-01/2010-12-31		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Director [Axis]		
Director Compensation [Line Items]	John Doe [Member]	Jane Doe [Member]	Directors, All [Member]
<b>Director [Hierarchy]</b>			
Director, Salary	1,000	1,000	2,000
Director, Bonuses	1,000	1,000	2,000
Director, Fees	1,000	1,000	2,000
Director, Options Granted, at Fair Value	1,000	1,000	2,000

### 1.1.2. Basic Automated Rendering

Component: (Network and Table)			
Network	Director Compensation		
Table	Director Compensation [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Period [Axis]	2010-01-01/2010-12-31		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Director [Axis]		
Director Compensation [Line Items]	John Doe [Member]	Jane Doe [Member]	Directors, All [Member]
<b>Director [Hierarchy]</b>			
Director, Salary	1,000	1,000	2,000
Director, Bonuses	1,000	1,000	2,000
Director, Fees	1,000	1,000	2,000
Director, Options Granted, at Fair Value	1,000	1,000	2,000

### 1.1.3. Report Elements and Model Structure

Example 1

<sup>1</sup> Member arrangement patterns,  
<http://www.xbrlsite.com/DigitalFinancialReporting/MemberArrangementPatterns/2013-05-15/>

Label	Report Element Class	Period	Balance	Preferred Label Role	Name
Director Compensation [Table]	[Table]	For Period		Standard Label	pattern:DirectorCompensationTable
Legal Entity [Axis]	[Axis]	For Period		Standard Label	frm:LegalEntityAxis
Consolidated Entity [Member]	[Member]	For Period		Standard Label	frm:ConsolidatedEntityMember
Director [Axis]	[Axis]	For Period		Standard Label	frm:DirectorAxis
Directors, All [Member]	[Member]	For Period		Standard Label	frm:DirectorsAllMember
John Doe [Member]	[Member]	For Period		Standard Label	pattern:JohnDoeMember
Jane Doe [Member]	[Member]	For Period		Standard Label	pattern:JaneDoeMember
Director Compensation [Line Items]	[LineItems]	For Period		Standard Label	pattern:DirectorCompensationLineItems
Director [Hierarchy]	[Abstract]	For Period		Standard Label	pattern:DirectorHierarchy
Director, Salary	[Concept] Monetary	For Period	Credit	Standard Label	pattern:DirectorSalary
Director, Bonuses	[Concept] Monetary	For Period	Credit	Standard Label	pattern:DirectorBonuses
Director, Fees	[Concept] Monetary	For Period	Credit	Standard Label	pattern:DirectorFees
Director, Options Granted, at Fair Value	[Concept] Monetary	For Period	Credit	Standard Label	pattern:DirectorOptionsGrantedAtFairValue

## Example 2

	Order	Data Type	Element Type	Period	Name
Presentation View					
Director Compensation			Extended Link		
Director Compensation [Table]	0	String	Table	duration	DirectorCompensationTable
Legal Entity [Axis]	1	String	Axis	duration	LegalEntityAxis
Consolidated Entity [Member]	1	String	Member	duration	ConsolidatedEntityMember
Director [Axis]	2	String	Axis	duration	DirectorAxis
Directors, All [Member]	1	String	Member	duration	DirectorsAllMember
Director Compensation [Line Items]	3	String	Abstract	duration	DirectorCompensationLineItems
Director [Hierarchy]	1	String	Abstract	duration	DirectorHierarchy
Director, Salary	1	Monetary	Element	duration	DirectorSalary
Director, Bonuses	2	Monetary	Element	duration	DirectorBonuses
Director, Fees	3	Monetary	Element	duration	DirectorFees
Director, Options Granted, at Fair Value	4	Monetary	Element	duration	DirectorOptionsGrantedAtFairValue

### 1.1.4. Business Rules

Roll up total = sum of the facts for each [Member] or part of the whole which is also represented using a [Member], generally with [Domain].

### 1.1.5. Description

The example shows a *Hierarchy* of information about directors which differentiates each director using the Director [Axis]. See the [Hierarchy] concept arrangement pattern for more information.

### 1.1.6. Extension Points

The following are the logical extension points for a *Hierarchy* metapattern:

- Add new [Axis]
- Add new [Member] to [Axis]
- Add new concepts to [Line Items] of *Hierarchy*

## 1.2. Is-a

An *Is-a* member arrangement pattern is descriptive and differentiates one type or class of thing from some different type or class of thing; but the things do not add up to a whole.

### 1.2.1. Visual Example

#### SUBSEQUENT EVENTS

The following is a summary of events subsequent to the balance sheet date:

Description of subsequent event number 1 which relates to the loss of an uncollectable receivable and occurred on January 16, 2011.

Description of subsequent event number 2 which relates to the purchase of a business and occurred on February 1, 2011.

### 1.2.2. Basic Automated Rendering

Component: (Network and Table)		
Network	Subsequent Events	
Table	Subsequent Events [Table]	
Reporting Entity [Axis]	SAMP <a href="http://www.SampleCompany.com">http://www.SampleCompany.com</a>	
Legal Entity [Axis]	Consolidated Entity [Member]	
Period [Axis]	2010-01-01/2010-12-31	
	Subsequent Event [Axis] ▲	
Subsequent Event [Line Items]	Uncollected Receivable [Member]	Purchase of Business [Member]
Subsequent Event [Hierarchy]		
Subsequent Event, Description	Description of subsequent event number 1 which relates to the loss of an uncollectable receivable and occurred on January 16, 2011.	Description of subsequent event number 2 which relates to the purchase of a business and occurred on February 1, 2011.
Subsequent Event, Date	2011-01-16	2011-02-01

### 1.2.3. Report Elements and Model Structure

Example 1:

Label	Report Element Class	Period	Balance	Preferred Label Role	Name
▼ Subsequent Events [Table]	[Table]	For Period		Standard Label	pattern:SubsequentEventsTable
▼ Legal Entity [Axis]	[Axis]	For Period		Standard Label	firm:LegalEntityAxis
Consolidated Entity [Member]	[Member]	For Period		Standard Label	firm:ConsolidatedEntityMember
▼ Subsequent Event [Axis]	[Axis]	For Period		Standard Label	pattern:SubsequentEventAxis
Uncollected Receivable [Member]	[Member]	For Period		Standard Label	pattern:UncollectedReceivableMember
Purchase of Business [Member]	[Member]	For Period		Standard Label	pattern:PurchaseBusinessMember
▼ Subsequent Event [Line Items]	[LineItems]	For Period		Standard Label	pattern:SubsequentEventLineItems
▼ Subsequent Event [Hierarchy]	[Abstract]	For Period		Standard Label	pattern:SubsequentEventHierarchy
Subsequent Event, Description	[Concept] Text/String	For Period		Standard Label	pattern:SubsequentEventDescription
Subsequent Event, Date	[Concept] Date	For Period		Standard Label	pattern:SubsequentEventDate

Example 2:

	Element Type	Data Type	Period	Balance	Order	Name
-						
Presentation View						
Subsequent Events	Extended Link					
Subsequent Events [Table]	Table	String	duration	na	0	SubsequentEventsTable
Legal Entity [Axis]	Axis	String	duration	na	1	LegalEntityAxis
Consolidated Entity [Member]	Member	String	duration	na	1	ConsolidatedEntityMember
Subsequent Event [Axis]	Axis	String	duration	na	2	SubsequentEventAxis
Uncollected Receivable [Member]	Element	String	duration	na	1	UncollectedReceivableMember
Purchase of Business [Member]	Element	String	duration	na	2	PurchaseBusinessMember
Subsequent Event [Line Items]	Abstract	String	duration	na	3	SubsequentEventLineItems
Subsequent Event [Hierarchy]	Abstract	String	duration	na	1	SubsequentEventHierarchy
Subsequent Event, Description	Element	String	duration	na	1	SubsequentEventDescription
Subsequent Event, Date	Element	Date	duration	na	2	SubsequentEventDate

#### 1.2.4. Business Rules

None.

#### 1.2.5. Description

The *Is-a* relation in the example above differentiates two different subsequent events that are disclosed. The two subsequent events are identified by the [Member] of the [Axis] "Subsequent Event [Axis]". The first event is "Uncollected Receivable [Member]", the second is "Purchase of Business [Member]". Each even provides two pieces of information, the "Subsequent Event, Description" and the "Subsequent Event, Date".

A *Roll Up* can always be identified by a software application by its set of XBRL calculations within the XBRL taxonomy.

#### 1.2.6. Extension Points

The following are extension points for a *Is-a* member arrangement pattern:

- Add new [Axis]
- Add new [Member] to [Axis]
- Add new concepts to the set of [Line Items] which provide information about the facts being differentiated by the [Member]s, for example in this case perhaps an "Amount" might be added

### 1.3. Nested whole-part relations

Nested:

Label	Report Element Class	Period	Balance	Preferred Label Role	Name
▼ Sales Analysis, by Geographic Area [Table]	[Table]	For Period		Standard Label	pattern:SalesAnalysisByGeographicAreaTable
▼ Legal Entity [Axis]	[Axis]	For Period		Standard Label	frm:LegalEntityAxis
Consolidated Entity [Member]	[Member]	For Period		Standard Label	frm:ConsolidatedEntityMember
▼ Geographic Area [Axis]	[Axis]	For Period		Standard Label	frm:GeographicAreaAxis
▼ Geographic Areas, All [Member]	[Member]	For Period		Standard Label	frm:GeographicAreasAllMember
▼ North America Region [Member]	[Member]	For Period		Standard Label	frm:NorthAmericaRegionMember
United States [Member]	[Member]	For Period		Standard Label	pattern:UnitedStatesMember
Canada [Member]	[Member]	For Period		Standard Label	pattern:CanadaMember
▼ Europe Region [Member]	[Member]	For Period		Standard Label	frm:EuropeRegionMember
United Kingdom [Member]	[Member]	For Period		Standard Label	pattern:UnitedKingdomMember
Germany [Member]	[Member]	For Period		Standard Label	pattern:GermanyMember
▼ Sales Analysis, by Geographic Area [Line Items]	[LineItems]	For Period		Standard Label	pattern:SalesAnalysisByGeographicAreaLineItems
▼ Sales Analysis, by Geographic Area [Hierarchy]	[Abstract]	For Period		Standard Label	pattern:SalesAnalysisByGeographicAreaHierarchy
Sales	[Concept] Monetary	For Period	Credit	Standard Label	pattern:Sales

Two separate [Axis]:

Label	Report Element Class	Period	Balance	Preferred L...	Name
▼ Sales Analysis, by Geographic Area [Table]	[Table]	For Period		Standard L...	pattern:SalesAnalysisByGeographicAreaTable
▼ Legal Entity [Axis]	[Axis]	For Period		Standard L...	frm:LegalEntityAxis
Consolidated Entity [Member]	[Member]	For Period		Standard L...	frm:ConsolidatedEntityMember
▼ Geographic Area [Axis]	[Axis]	For Period		Standard L...	frm:GeographicAreaAxis
▼ Geographic Areas, All [Member]	[Member]	For Period		Standard L...	frm:GeographicAreasAllMember
North America Region [Member]	[Member]	For Period		Standard L...	frm:NorthAmericaRegionMember
Europe Region [Member]	[Member]	For Period		Standard L...	frm:EuropeRegionMember
▼ Country [Axis]	[Axis]	For Period		Standard L...	pattern:CountryAxis
▼ Countries, All [Member]	[Member]	For Period		Standard L...	pattern:CountriesAllMember
United States [Member]	[Member]	For Period		Standard L...	pattern:UnitedStatesMember
Canada [Member]	[Member]	For Period		Standard L...	pattern:CanadaMember
United Kingdom [Member]	[Member]	For Period		Standard L...	pattern:UnitedKingdomMember
Germany [Member]	[Member]	For Period		Standard L...	pattern:GermanyMember
▼ Sales Analysis, by Geographic Area [Line Items]	[LineItems]	For Period		Standard L...	pattern:SalesAnalysisByGeographicAreaLineItems
▼ Sales Analysis, by Geographic Area [Hierarchy]	[Abstract]	For Period		Standard L...	pattern:SalesAnalysisByGeographicAreaHierarchy
Sales	[Concept] Monetary	For Period	Credit	Standard L...	pattern:Sales