Reference: Dynamic Member Sets

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Learn about the scope of each of the available **Dynamic Member Sets**.

Overview

When you map a template or create Form Variables or Expressions, Vena allows you to select hierarchy members dynamically, if desired. This is done using dynamic member sets, which are specified groups of members defined by their position in the member hierarchy.

Selecting members using dynamic member sets is useful if you want your mapping/Form Variable/Expression to be able to accommodate changes to your data model, such as when members are added, removed or modified. The available dynamic member sets are:

- Children
- IChildren
- Descendants
- IDescendants
- Bottom Level

This reference guide illustrates which members are included in each of these sets.

Reference Guide

Hierarchy Diagram

To illustrate how the available sets define groups of members, consider this diagram that describes a portion of a member hierarchy:

	Member Name	Alias
☐	☐	
☐	⌄ Global Consolidated	
☐	⌄ Peak US Operations	
☐	◂ US003	Des Moines
☐	US001	Rochester
☐	US002	Los Angeles
☐	⌄ Peak Mexico Operations	
☐	MX001	Mexico City
☐	MX002	Cancun
☐	MX003	Guadalajara

In this example, our highest-level member is *Global Consolidated*. This is a parent member, as it contains sub-members, which are referred to as children: *Peak US Operations* and *Peak Mexico Operations*.

However, while they are children, both *Peak US Operations* and *Peak Mexico Operations* are also parents, as they themselves have children: *US001, US002* and *US003* and *MX001, MX002* and *MX003*, respectively. These members representing the operation areas are referred to as bottom-level members, as they do not have any children themselves. Thus, they represent the lowest level of the hierarchy relative to *Global Consolidated*.

As shown above, it is important to note that the meanings of the terms parent and child are relative, and are determined by the frame of reference. This applies in particular to the dynamic member sets, which are named in reference to the selected member. In the context of using dynamic member sets, the *selected member* is the member which you specified prior to choosing the dynamic member set (e.g., when mapping a template, the member you right-clicked on to see the dynamic member set options).

In all of the examples below, the selected member is *Global Consolidated*.

Children

Definition: One level below the selected member in the hierarchy, but no levels below that.

Description: Includes the children of the selected member, but not any of the individual members at lower levels, i.e., the selected member's children's children.

Illustration:

Includes the members highlighted:

	Member Name	Alias
☐	⌄ Global Consolidated	
☐	⌄ Peak US Operations	
☐	⚹ US003	Des Moines
☐	US001	Rochester
☐	US002	Los Angeles
☐	⌄ Peak Mexico Operations	
☐	MX001	Mexico City
☐	MX002	Cancun
☐	MX003	Guadalajara

IChildren

Definition: The selected member itself and one level below the selected member in the hierarchy, but no levels below that.

Description: The same as children, except that this set also includes the selected member.

Illustration:

Includes the members highlighted:

	Member Name	Alias
☐	⌄ Global Consolidated	
☐	⌄ Peak US Operations	
☐	⤳ US003	Des Moines
☐	US001	Rochester
☐	US002	Los Angeles
☐	⌄ Peak Mexico Operations	
☐	MX001	Mexico City
☐	MX002	Cancun
☐	MX003	Guadalajara

Descendants

Definition: All levels below the selected member in the hierarchy.

Description: Includes all children of the selected member, the children's children, and so on until the lowest level of the hierarchy related to the selected member.

Illustration:

Includes the members highlighted:

	Member Name	Alias
☐	⌄ Global Consolidated	
☐	⌄ Peak US Operations	
☐	⮜ US003	Des Moines
☐	US001	Rochester
☐	US002	Los Angeles
☐	⌄ Peak Mexico Operations	
☐	MX001	Mexico City
☐	MX002	Cancun
☐	MX003	Guadalajara

IDescendants

Definition: The selected member itself and all levels below the selected member in the hierarchy.

Description: The same as descendants, except that this set also includes the selected member itself.

Illustration:

Includes the members highlighted:

	Member Name	Alias
☐	⌄ Global Consolidated	
☐	⌄ Peak US Operations	
☐	⮜ US003	Des Moines
☐	US001	Rochester
☐	US002	Los Angeles
☐	⌄ Peak Mexico Operations	
☐	MX001	Mexico City
☐	MX002	Cancun
☐	MX003	Guadalajara

Bottom-level

Definition: Only the lowest level in the hierarchy under the selected member.

Description: Includes all members under the selected member that are children only, and no members from any levels above that.

Illustration:

Includes the members highlighted:

	Member Name	Alias
☐	⌄ Global Consolidated	
☐	⌄ Peak US Operations	
☐	◁ US003	Des Moines
☐	US001	Rochester
☐	US002	Los Angeles
☐	⌄ Peak Mexico Operations	
☐	MX001	Mexico City
☐	MX002	Cancun
☐	MX003	Guadalajara

⌄ Global Consolidated

⌄ Peak US Operations