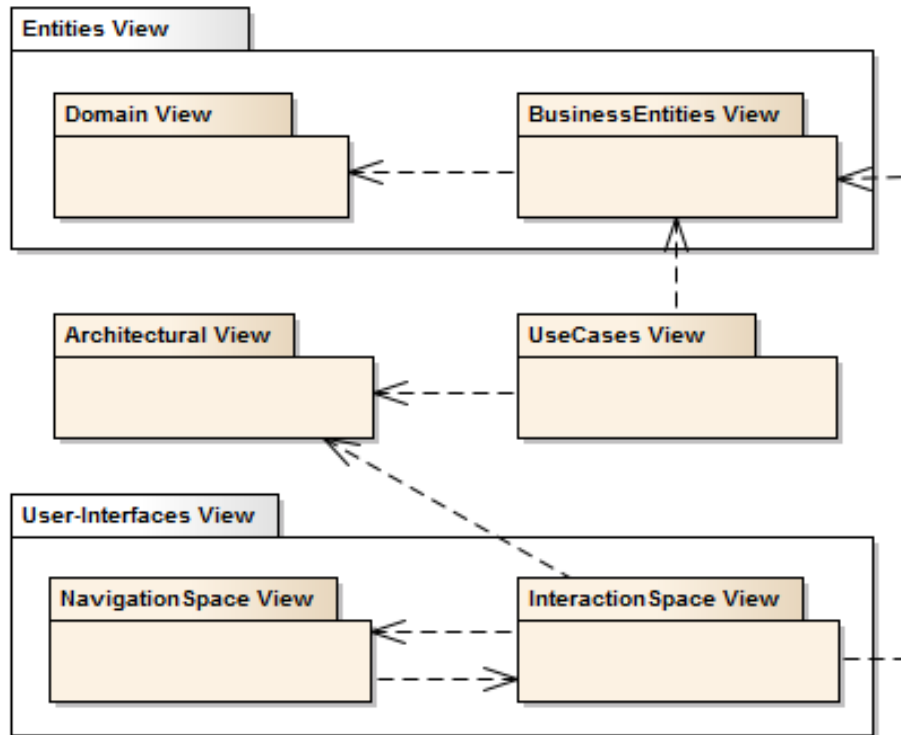
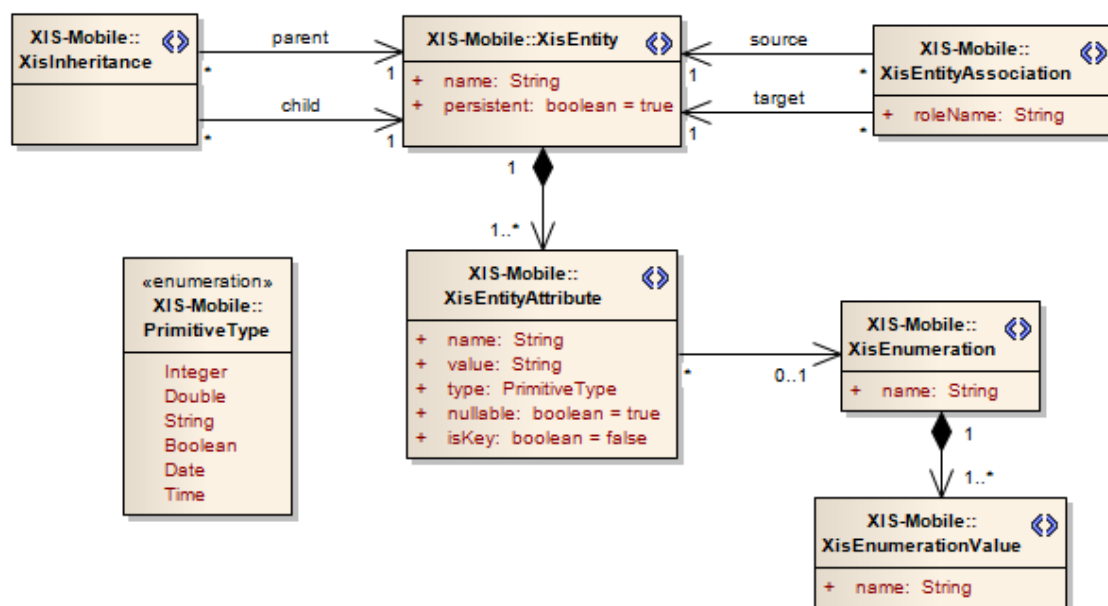


XIS-Mobile Profile Specification

The XIS-Mobile UML Profile comprises six views: Domain View, BusinessEntity View, Architectural View, UseCases View, NavigationSpace View and InteractionSpace View. Each one of them is detailed in the next sections.



1. Domain View



Stereotype	Metaclass
XisEntity	Class
XisEntityAttribute	Property
XisEnumeration	Enumeration
XisEnumerationValue	EnumerationLiteral
XisEntityAssociation	Association
XisInheritance	Generalization

XisEntity		
Represents a domain entity.		
Tagged Value	Type	Description
name	String	Specifies the name of the domain entity.
persistent	Boolean	Specifies if the entity should be persisted or not.

XisEntityAttribute		
Represents an attribute or property of a domain entity (XisEntity).		
Tagged Value	Type	Description
name	String	Specifies the name of the attribute.
value	String	Assigns a value to the entity attribute.
type	PrimitiveType	Specifies the type of the domain entity.
nullable	Boolean	Specifies if the attribute can be null.

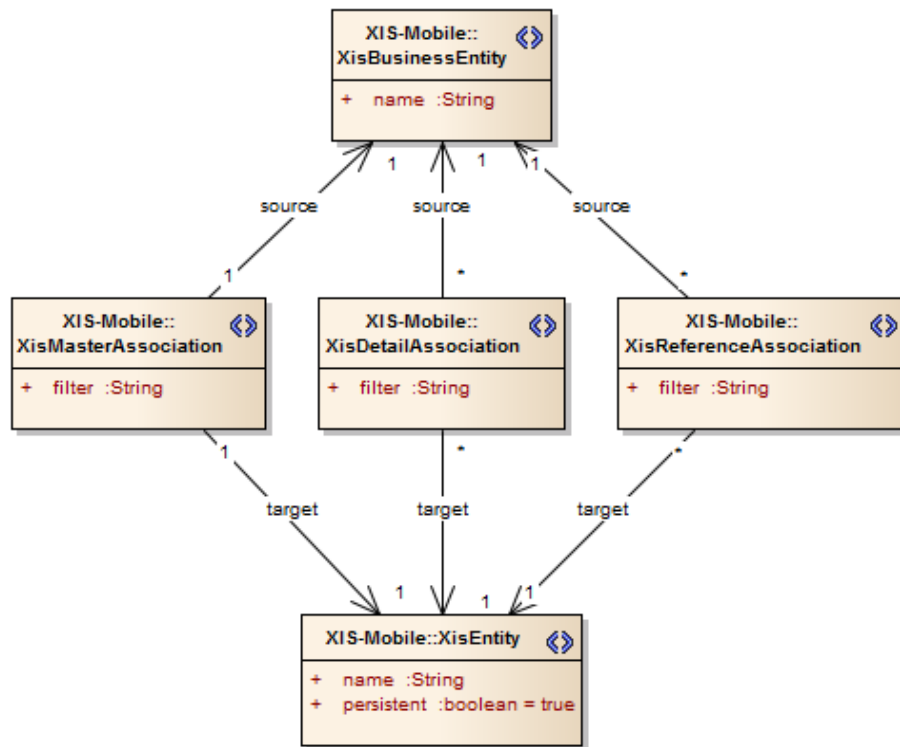
isKey	Boolean	Specifies if the attribute is a key.
XisEnumeration		
Represents an enumeration that can be used as an attribute of a domain entity.		
Tagged Value	Type	Description
name	String	Specifies the identifier of the enumeration.

XisEnumerationValue		
Represents an enumeration literal, i.e., a possible value of an enumeration (XisEnumeration).		
Tagged Value	Type	Description
name	String	Specifies the identifier of the enumeration value.

XisEntityAssociation		
Associates two domain entities (XisEntity).		
Tagged Value	Type	Description
roleName	String	Specifies the identifier of the association.

XisInheritance		
Represents a generalization between two domain entities (a parent and their child).		

2. BusinessEntity View



Stereotype	Metaclass
XisBusinessEntity	Class
XisReferenceAssociation	Association
XisMasterAssociation	Association
XisDetailAssociation	Association

XisBusinessEntity		
Represents a business entity, which consists in an aggregation of domain entities: a main domain entity and a set of entities (detail and reference domain entities) associated to it that contribute to its definition.		
Tagged Value	Type	Description
name	String	Specifies the identifier of the business entity.

XisMasterAssociation		
Defines the main domain entity of the business entity (XisBusinessEntity).		
Tagged Value	Type	Description
filter	String	Specifies the domain entity's attributes aggregated by the business entity.

XisDetailAssociation		
Defines the set of detail domain entities ¹ related to the master domain entity.		
Tagged Value	Type	Description
filter	String	Specifies the domain entity's attributes aggregated by the business entity.

XisReferenceAssociation		
Defines the set of reference domain entities ² related to the master domain entity.		
Tagged Value	Type	Description
filter	String	Specifies the domain entity's attributes aggregated by the business entity.

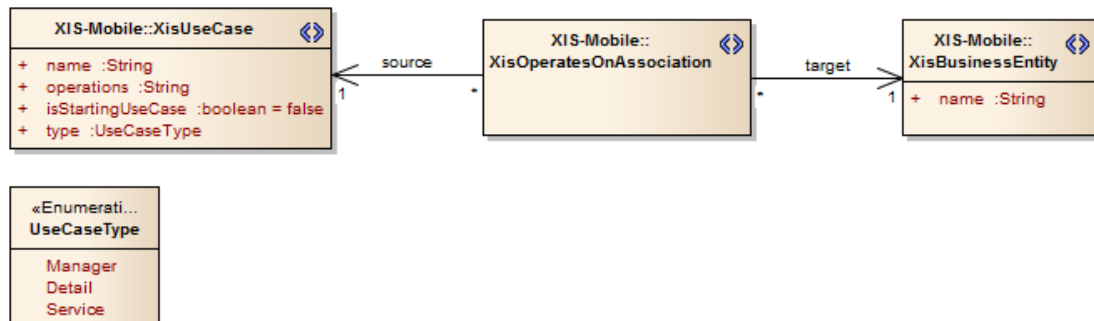
The filter tagged value can have the following values:

- If empty, all domain entity's attributes will be aggregate by the business entity;
- If one entity attribute, should be in the format <DomainEntityName>.<DomainEntityAttributeName>;
- If more than one entity attribute, they should be in the format as before and separated by a semicolon (;).

¹ Detail domain entities are entities associated to the master domain entity through an aggregation or composition in the Domain View.

² Reference domain entities are entities associated to the master entity through an association in the Domain View.

3. UseCases View

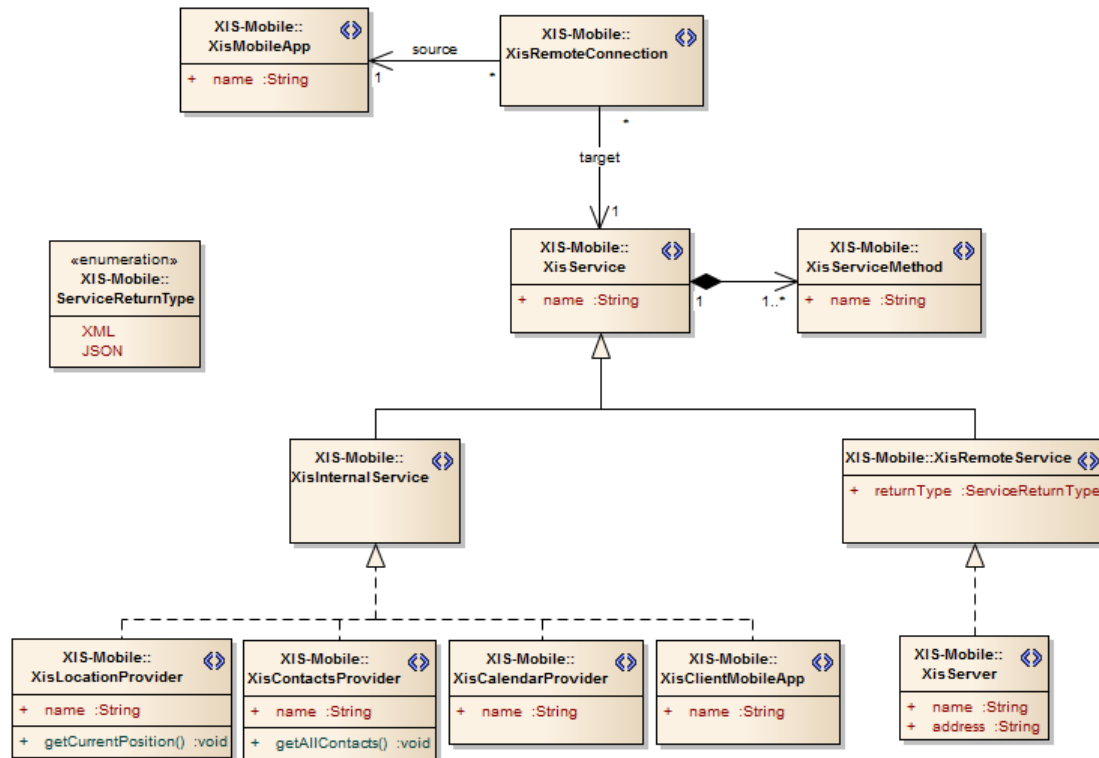


Stereotype	Metaclass
XisUseCase	UseCase
XisOperatesOnAssociation	Association

XisUseCase		
Represents a use case, which includes a set of operations that can be performed over a business entity.		
Tagged Value	Type	Description
name	String	Specifies the identifier of the use case.
operations	String	Specifies the set of operations that can be performed on the business entity
isStartingUseCase	Boolean	Specifies if the use case is the first that should be considered during the Model-to-Model transformation stage.
type	UseCaseType	Specifies the type of the use case by applying a pattern during the Model-to-Model transformation stage

XisOperatesOnAssociation
Associates a use case to a business entity (XisBusinessEntity).

4. Architectural View



Stereotype	Metaclass
XisMobileApp	Class
XisRemoteConnection	Association
XisService	Interface
XisServiceMethod	Operation
XisInternalService	XisService
XisRemoteService	XisService
XisLocationProvider	Class
XisContactsProvider	Class
XisCalendarProvider	Class
XisClientMobileApp	Class
XisServer	Class

XisMobileApp		
Represents the mobile application detailed in the other views.		
Tagged Value	Type	Description
name	String	Specifies the name of the mobile application.

XisRemoteConnection		
Associates the mobile application (XisMobileApp) to a service (XisService).		

XisService		
Represents a service composed by operations (XisServiceMethod) that can be invoked by the mobile application (XisMobileApp).		
Tagged Value	Type	Description
name	String	Specifies the identifier of the service.

XisServiceMethod		
Represents an operation provided by a service (XisService).		
Tagged Value	Type	Description
name	String	Specifies the identifier of the operation.

XisInternalService		
Represents a service provided by an entity within the mobile application's operating system.		

XisRemoteService		
Represents a service provided by an external entity.		
Tagged Value	Type	Description
returnType	ServiceReturnType	Specifies the type of the response .

XisLocationProvider		
Represents the entity, which allows interacting with the operating system's Location features.		
Tagged Value	Type	Description
name	String	Specifies the name of the mobile application.

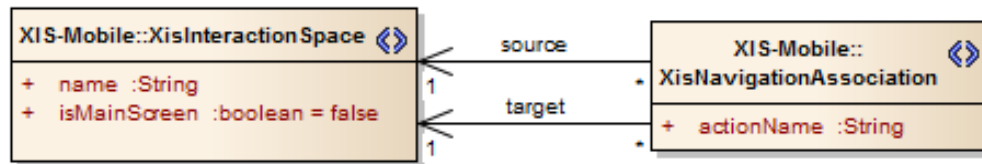
XisContactsProvider		
Represents the entity, which allows interacting with the operating system's Contacts features.		
Tagged Value	Type	Description
name	String	Specifies the name of the mobile application.

XisCalendarProvider		
Represents the entity, which allows interacting with the operating system's Calendar features.		
Tagged Value	Type	Description
name	String	Specifies the name of the mobile application.

XisClientMobileApp		
Represents a mobile application that interacts with the main mobile application (XisMobileApp).		
Tagged Value	Type	Description
name	String	Specifies the identifier of the mobile application.

XisServer		
Represents a remote server that interacts with the main mobile application (XisMobileApp).		
Tagged Value	Type	Description
name	String	Specifies the identifier of the server.
address	String	Specifies the IP address of the server.

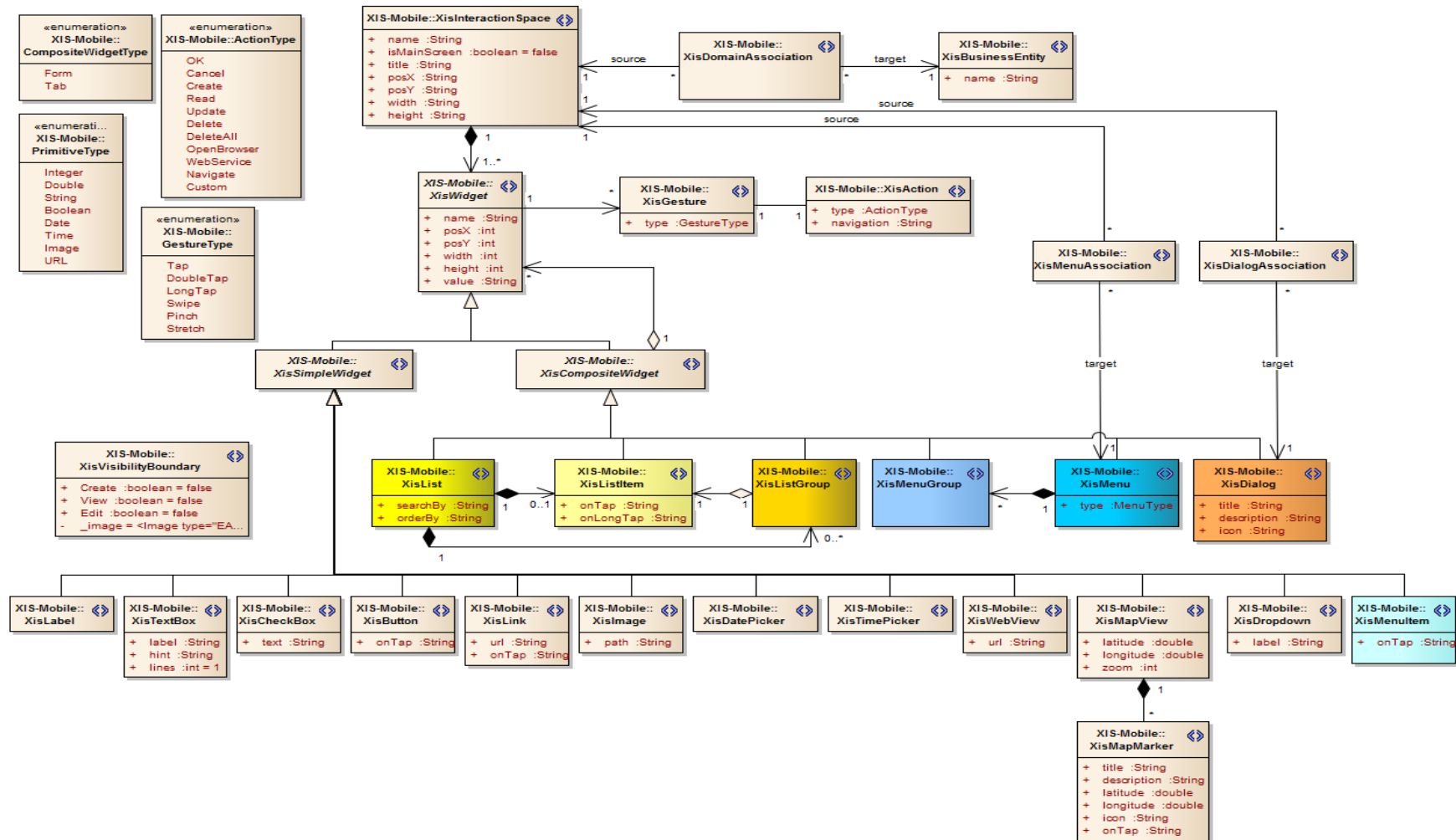
5. NavigationSpace View



Stereotype	Metaclass
XisNavigationAssociation	Association

XisNavigationAssociation		
Defines the transitions between two interaction spaces (XisInteractionSpace).		
Attribute	Type	Description
actionName	String	Specifies the name of the action that triggered the navigation.

6. InteractionSpace View



Stereotype	Metaclass
XisInteractionSpace	Class
XisDomainAssociation	Association
XisWidget	Class
XisSimpleWidget	XisWidget
XisCompositeWidget	XisWidget
XisLabel	XisSimpleWidget
XisTextBox	XisSimpleWidget
XisCheckBox	XisSimpleWidget
XisButton	XisSimpleWidget
XisLink	XisSimpleWidget
XisImage	XisSimpleWidget
XisDatePicker	XisSimpleWidget
XisTimePicker	XisSimpleWidget
XisWebView	XisSimpleWidget
XisMapView	XisSimpleWidget
XisDropdown	XisSimpleWidget
XisMenuItem	XisSimpleWidget
XisList	XisCompositeWidget
XisListItem	XisCompositeWidget
XisListGroup	XisCompositeWidget
XisMenuGroup	XisCompositeWidget
XisMenu	XisCompositeWidget
XisDialog	XisCompositeWidget
XisMenuAssociation	Association
XisDialogAssociation	Association
XisVisibilityBoundary	Class
XisGesture	Class
XisAction	Operation

XisInteractionSpace		
Represents an interaction space, i.e., an application screen.		
Tagged Value	Type	Description
name	String	Specifies the identifier of the interaction space.
isMainScreen	Boolean	Specifies if the screen is the first one presented when the application starts.

XisDomainAssociation
Associates an interaction space to a business entity.

XisWidget		
Represents a UI widget or control of an interaction space (XisInteractionSpace).		
Tagged Value	Type	Description
name	String	Specifies the identifier of the widget.
posX	Double	Horizontal position of the widget.

posY	Double	Vertical position of the widget.
width	Double	Specifies the width of the widget.
height	Double	Specifies the height of the widget.
value	String	Assigns a value to the widget.

XisLabel
Represents a label.

XisTextBox		
Represents a textbox.		
Tagged Value	Type	Description
label	String	Specifies the label of the textbox.
hint	String	Specifies the hint of the textbox.
lines	Integer	Specifies the number of lines of the textbox.

XisCheckBox
Represents a checkbox.

XisButton		
Represents a button.		
Tagged Value	Type	Description
onTap	String	Specifies if the widget has a tap gesture attached. If so, its value is the name of the operation it triggers.

XisLink		
Represents a link.		
Tagged Value	Type	Description
url	String	Specifies the link's destination.
onTap	String	Specifies if the widget has a tap gesture attached. If so, its value is the name of the operation it triggers.

XisImage		
Represents an image.		
Tagged Value	Type	Description
path	String	Specifies the image's location.

XisDatePicker

Represents a date picker.

XisTimePicker
Represents a time picker.

XisWebView		
Represents a web view.		
Tagged Value	Type	Description
url	String	Specifies the address of the web site accessed.

XisMapView		
Represents a Google Maps view.		
Tagged Value	Type	Description
latitude	Double	Specifies the latitude of the center of the map.
longitude	Double	Specifies the longitude of the center of the map.
zoom	Integer	Specifies the zoom level of the map.

XisDropDown
Represents a dropdown.

XisMenuItem		
Represents a menu item.		
Tagged Value	Type	Description
onTap	String	Specifies if the menu item has a tap gesture attached. If so, its value is the name of the operation it triggers.

XisList		
Represents a list.		
Tagged Value	Type	Description
searchBy	String	Specifies the domain entity's attributes that can be used to filter the items of the list.
orderBy	String	Specifies the domain entity's attributes that can be used to order the items of the list.

XisListItem		
Represents a list item.		
Tagged Value	Type	Description
onTap	String	Specifies if the list item has a tap gesture attached. If so, its value is the name of the operation it triggers.

onLongTap	String	Specifies if the list item has a long tap gesture attached. If so, its value is the name of the operation it triggers.
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XisListGroup
Represents a group of list items.

XisMenuGroup
Represents a group of menu items.

XisMenu		
Represents a menu.		
Tagged Value	Type	Description
type	MenuType	Specifies the type of the menu: OptionsMenu or ContextMenu.

XisDialog		
Represents an information dialog or popup.		
Tagged Value	Type	Description
title	String	Specifies the title of the dialog.
description	String	Specifies the description of the dialog.
icon	String	Specifies the path of the dialogs's icon.

XisMenuAssociation
Associates an interaction space to a menu.

XisDialogAssociation
Associates an interaction space to a dialog.

XisVisibilityBoundary		
Represents a boundary that defines when the UI widgets it includes are visible.		
Tagged Value	Type	Description
Create	Boolean	Specifies if the widgets included are visible in Create mode.
View	String	Specifies if the widgets included are visible in View mode.
Edit	String	Specifies if the widgets included are visible in Edit mode.

XisGesture
Represents a gesture attached to a UI widget (XisWidget).

Tagged Value	Type	Description
name	String	Specifies the name of the gesture.
type	GestureType	Specifies the type of gesture: Tap, DoubleTap, LongTap, Swipe, Pinch or Stretch.
XisAction		
Represents an action triggered by a gesture.		
Tagged Value	Type	Description
name	String	Specifies the name of the action.
type	ActionType	Specifies the type of the action: OK, Cancel, Create, Read, Update, Delete, DeleteAll, OpenBrowser, WebService, Navigate or Custom.
navigation	String	Determines if the action causes navigation to another interaction space. If so, its value is the name of the target interaction space.