# **Using Find operation**

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MagicDraw utilizes a Find operation that allows you to automatically search for model elements, represent relations between these elements, or gather their derived property values each time you update your model. The Find operation is customizable, so you can change the default values of all the properties for the selected operation at any any time. These properties need to be customized in the Expert mode. The Find operation can be accessed and used:

- In a Relation Map to represent relations between elements.
- In a Dependency Matrix to associate elements in rows and columns of a matrix.
- From the Specification window of a Smart Package to query a model and gather specific elements.
- From the Specification window of the selected element to calculate/gather the values of derived properties.
- In a Generic Table to calculate/gather the values of derived properties.
- From the Specification window of an opaque behavior to specify the body of a StructuredExpression.

Sou Would like to simply find the desired model element, and don't need to automatically query your model every time you update it, use the Find dialog

To use a Find operation, you need to specify it as criteria. The next section describes how to complete this task.

## Specifying a Find operation as criteria

Specifying a Find operation as criteria allows you to automatically query your model in order to find and render specific model elements, relations between these elements, or gather their derived properties depending on where the operation is used (as mentioned above).

To specify a Find operation as criteria

- 1. Open the dialog for specifying criteria.
- 2. Select Find on the left side of the open dialog.

🔀 Relation Criteria		×
		ent relations between elements in the relation map. If several will represent relations according to all of these operations.
Relation Criteria	What: Type:	ion Name:         Find         Style:            Qr*
⊙ Expert		OK Cancel Help Evaluation Mode

- 3. Change the Operation Name, if needed.
- 4. Select the Style to represent the specified Find criteria. Note that the style selection is available only in the Relation Criteria and Dependency Criteria dialogs.
- 5. Specify the Find operation properties, and click OK.

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Secting the Search in all texts check box allows you to search for text in Documentation and TODO properties.

Completing the steps described above specifies a Find operation as criteria. If specifying the Find operation properties available in the Standard mode is not sufficient, and you want to customize the advanced properties and/or options of the selected operation, you can do this in the Expert mode.

## Manipulations in the Expert mode

The Expert mode allows you to search for model elements by the property or tag value and the applied stereotype name. This mode gives you the option to change the contextual element of a Find operation or create a new operation, and use the selected Find operation as its argument.

To specify the Find operation properties available in the Expert mode

- 1. Open the dialog for specifying criteria.
- 2. On the lower left corner of the open dialog, click C Expert to enable the Expert mode.
- 3. On the left side of the dialog, expand the Find operation.
- 4. Select the property you want to specify, and, in the property specification panel on the right side of the dialog, specify the value of the selected property.

💭 Relation Criteria	Find ft		Edit Use as	Remove
🔅 🚥 Simple Navigation			Luit Obe donn	recinore
🗄 📲 Metachain Navigation				
🛱 🔍 Find	Operation Nam	e: Find	Style:	
···· 💷 Search String = ModelingDomain				
···· 🖉 Scope = null				
···· 🖉 Types = null	100-00			
····· 🗾 Include Subtypes = false	What:	Q-ModelingDomain		$\sim$
····· Ext Filter Properties =	Type:	<any></any>		
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···· 🔽 Regular Expression = false	Scope:	Whole Project		
····· 🔽 Case Sensitive = false	Properties: ()			i
Match Anywhere = true	Froper des.			
···· 🗾 Include Elements From Modules = false		Include elements from standard/system profiles		
🗾 Include Elements From Additionl Content = false		Include elementa nom standard/aystem promes		
🗾 Search Data Unused In Diagrams = false		Include elements from additional content		
Implied Relation		Search data unused in diagrams		
+ Create operation		Scarch uata unuscu in uiagranis		
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#### 5. Click OK.

The selected Find operation is now customized to query a model according to your specified properties. As mentioned before, the Expert mode also gives you the option to use a specific Find operation as an argument of another operation. In other words, you can create a new Find, Filter, Implied Relation, Exclude, Script, Union or Collection operation, and use the results of a specific Find operation as its property.

To use the expression of a Find operation as a property of another operation

1. Open the dialog for specifying criteria.

- 2. On the lower left corner of the open dialog, click C Expert to enable the Expert mode.
- 3. Select Find on the left side of the dialog.

4. In the criteria specification panel on the right side of the dialog, click the Use as button, and select the desired command that corresponds to the operation you want to create as shown below. A new operation is created.

Find 🕕		Edit	Us	e as Remove
Operation Nam	e: Find	S	-	Scope of a new Find Types of a new Find
What: Type: Scope:	QModelingDomain <any> Whole Project</any>			Input of a new Filter Element of a new Implied Relation Context of a new Type Test Type of a new Type Test Element of a new Property Test
Properties: ()	Include elements from standard/system profiles Include elements from additional content Search data unused in diagrams			From of a new Exclude Excluded of a new Exclude arg1 of a new Script Member of a new Union Member of a new Collection
	ОК	Cancel	Hel	p Evaluation Mode

5. Specify other parameters of the created operation, and click OK.

You now have a new operation that has been created with the selected Find operation as one of its properties.

### **Related pages**

- Specifying criteria for querying model

   Getting started with specifying criteria
   Using Simple Navigation
   Using Metachain Navigation
   Using Implied Relations
   Creating new operations
   Calling operations from the model
   Creating script operations