TCC - Working with block elements
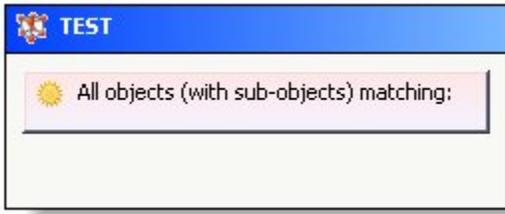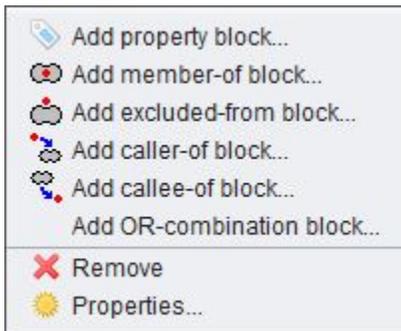
Working with block elements

When a Layer or Set is displayed in the Free Definition window with one basic **All objects (with sub-objects) matching** text box like this (this can be achieved by right clicking the layer or set and selecting **Add selection criteria**):
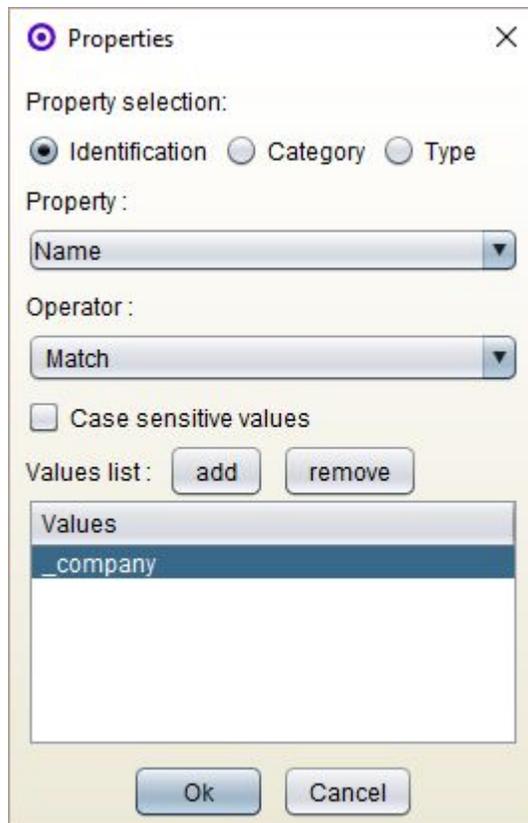

You can then right click the **All objects** text and use the available options to create more complex selection criteria:

Each option is explained below:

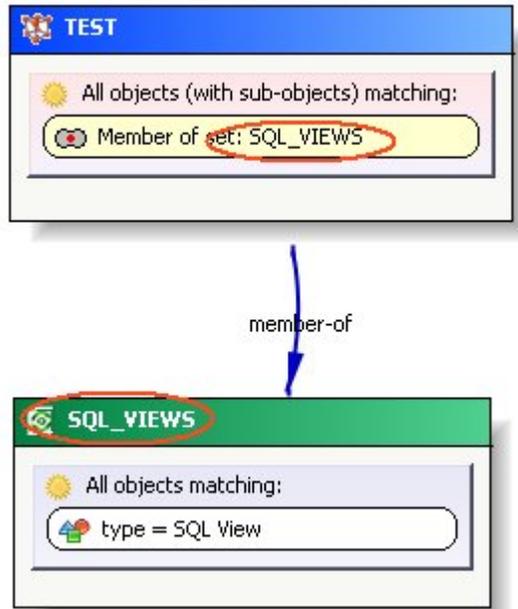| Add property block	Will display the **Properties dialog box**:
	![Properties dialog box] This dialog box enables you to add a selection criterion based on any of the items in the **Types & Properties panel** and using a value. Please note: **Like option and wildcards** When entering search strings using the LIKE option, a simple **LIKE** comparison is executed to find the matching objects. As such, you can use the following characters as **wildcards**: **- % (percent)** - this wildcard will match any string of characters, even empty characters **- _ (underscore)** - this wildcard will match any single character The wildcard characters **%** and _ cannot be escaped, therefore you cannot search explicitly for objects that contain these characters in their name. As such, you may find that when using the above wildcards, objects are matched which you do not require. If this is the case, please instead use the **MATCH** option with a Regular Expression to achieve what you need. **Regular Expressions** You can use Regular Expressions in the **Values** list when working with the **Match** option only . Please see Using Regular Expressions for more information.

The Properties dialog box shows:

Properties [X]

Property selection:
◉ Identification ○ Category ○ Type

Property :
[Name ▼]

Operator :
[Match ▼]

☐ Case sensitive values

Values list : [add] [remove]

Values
_company

[Ok] [Cancel]

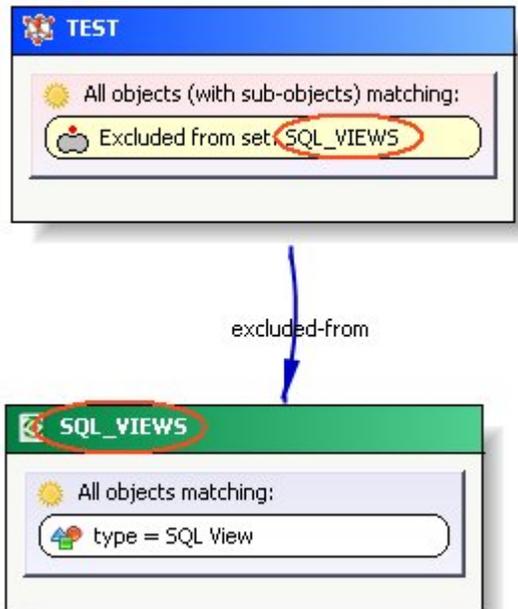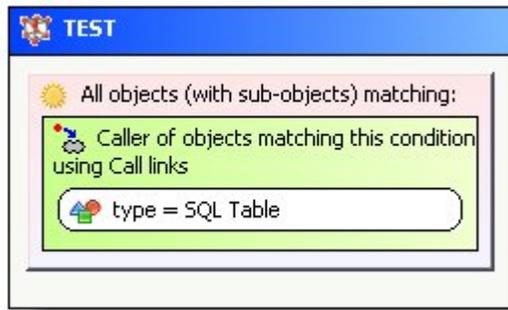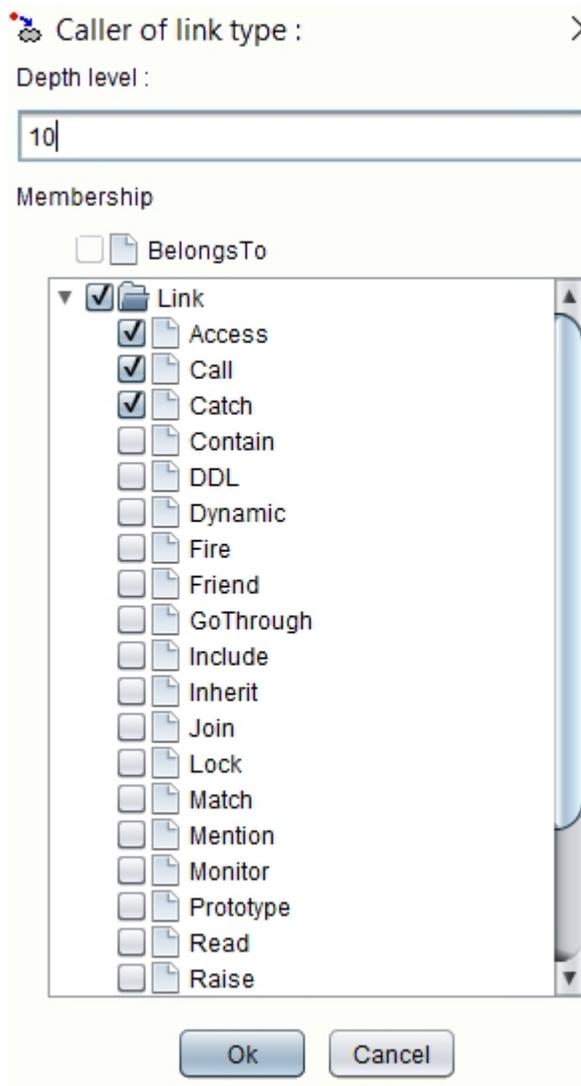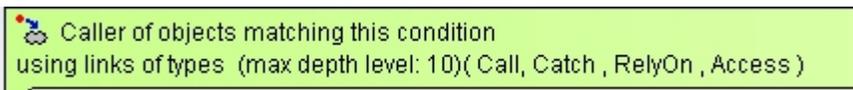|	
Add member-of block	Enables you to add a selection criterion to the current Set based on the criteria defined in other sets (standard and generic). I.e. you can define a Generic Set "X" and **include** the set (and its criteria) in one action in the current set. A dialog box will be displayed prompting you to choose the Set you require. In the example below we have defined a Generic Set to detect all SQL Views. We have then added this Generic Set to the current Set via the **member-of** option - the current Set will now take into account all SQL Views. A blue arrow is also displayed between the sets to indicate that one depends on the other for its criteria.
Add excluded-from block	Enables you to add a selection criterion to the current Set based on the criteria defined in other sets (standard and generic). I.e. you can define criteria for Generic Set "X" and **Exclude** the set (and its criteria) in one action in the current set. A dialog box will be displayed prompting you to choose the Set you require. In the example below we have defined a Generic Set to detect all SQL Views. We have then added this Generic Set to the current Set via the **excluded-from** option - the current Set will now ignore all SQL Views. A blue arrow is also displayed between the sets to indicate that one depends on the other for its criteria.
Add caller-of block	Enables you to add a selection criterion based on objects that are **callers** of objects defined in a further sub-criterion (or criteria):

- Define the **link depth** (enter manually). Depth indicates how many links back you want to fetch.
- Then choose either:
  - **Membership** > **Belongs To** - these links represent interactions between parent and child object
  - **Specific link type** > You can choose any combination of specific link types - in this case, any matching link that is found will be included.
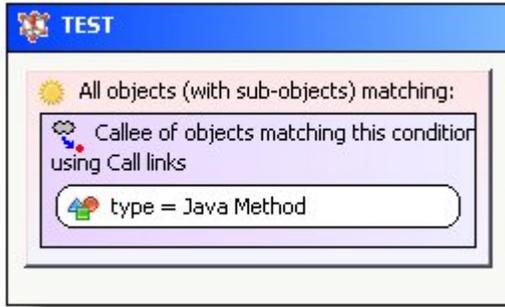

Once created, you can then add further blocks as required by right clicking and selecting the appropriate block type. This will be represented as follows when multiple links are selected:

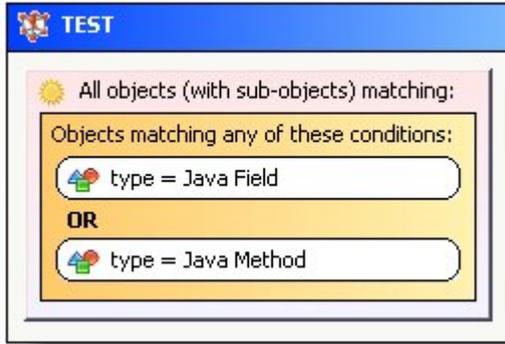|	
	ⓘ - It is not possible to mix Membership link types with Specific Link Types: it is one or the other. - Only one call depth (i.e the one chosen) will apply to all link types.
Add callee-of block	Enables you to add a selection criterion based on objects that are **callees** of objects defined in a further sub-criterion (or criteria). The process is identical to that described above for the **caller-of block**: ![TEST block showing "All objects (with sub-objects) matching: Callee of objects matching this condition using Call links, type = Java Method"]()
Add OR-combination block	Enables you to add a selection criterion based on **OR** conditions - i.e. you can enter any number of sub-criteria, but only one has to match for the object to be assigned to the current Layer: ![TEST block showing "All objects (with sub-objects) matching: Objects matching any of these conditions: type = Java Field OR type = Java Method"]() Once the initial OR criterion is defined, click the criterion to add further sub-criteria.

Note that if you are working with block elements, the CAST Transaction Configuration Center will notify you when a layer or set is not fully defined by using a red warning: