Identify Controls

Overview

Controls can be a combination of people, processes, and tools that are put in place to prevent, detect, or correct issues caused by unwanted events. Controls can also be referred to as **Treatments**, or as specified from the Workgroup Wording.

In Riskion, all controls that are identified are referred to as **Potential Controls**.

Controls to be in effect can either be selected manually or by optimization.

A Potential Control can be applied to one or more applications below:

- **Likelihood Of Sources**
- **Vulnerabilities of Events From Sources**
- **Consequences of Events To Objectives**

You can view and identify the potential controls on the **CONTROLS > Identify > All Controls > Details page**. You can also manage controls from the "Bow-Time Diagram with Controls" page.

Note: There are also separate pages where you can identify (and assign) controls specific to their applications. You can be redirected to these specific pages when clicking the "No application" or the number (of applications) link under the "Applications" column.

Add Controls

Click the '**Add a control...**' button.

Here you can specify the Control Name, Cost, and categories.

The Control name is required, once you enter the control name the OK button will be enabled.

Control Applications

The created control will be displayed as a new row on the Controls grid as shown below:

In…	☐	A…	Control Name	Selected	Disabled	Cost ☰	Applica…	Categ…	Must	Must Not
1	☐	☰	Monthly Performance Review		☐	10000	No applications		☐	☐

Clicking "No applications" will open a dialog:

Depending on the control application, click the "Apply this control to.... " link, this will redirect you to one of the following pages:

- Controls for Sources
- Controls for Events Vulnerabilities (by Control)
- Controls for Events Consequences (by Control)

From our example, clicking the "Apply this control to sources" redirects us to the "Controls for Sources" page where we can select the Sources the control can be applied to.

| MANAGE MODELS | IDENTIFY/STRUCTURE | LIKELIHOOD OF EVENTS | IMPACT OF EVENTS | RISKS | CONTROLS | CON |

Identify | Measurement Methods | Participants | Combined Effectiveness | Manually Select | Optimize | Efficient Frontier   ⟳ Reload ● On-line 🔒 Lock

Add a control… | Paste controls | Upload .xml… | Delete | Edit Attributes… | Options ▾

Controls for "Intelligent Event London Underground Monitoring"Default Scenario

Selected controls: 0
Cost Of Selected Controls: $0 (unfunded: $10,000)
Total Cost Of All Controls: $10,000 (with applications: $0)

All Controls
- ○ **Details**
  - ○ Where Applied
  - ○ Categories
- Controls for Sources
- Controls for Event Vulnerab…
  - ○ by Event
  - ○ by Control
- Controls for Event Conseq…
  - ○ by Event
  - ○ by Control

🔍 Search…

In…	☐	A…	Control Name	Selected	Disabled	Cost ≡	Applica…	Categ…	M	M	M
1	☐	≡	Monthly Performance Review		☐	10000	No applications		☐	☐	

After selecting the Sources where the control can be applied as demonstrated above: (1) Disregarding or Not Following Proper Policies, Processes, or Procedures (2) Engineers Failure to Properly Install Equipment, the number of control applications changed to **2**.

Clicking "**2**" will open the same dialog box, now listing the control application details:

Controls Applications ✕

"Monthly Performance Review" is applied to:

Source/Objective Name	Event Name	Assignment Type	Measure Type	Effectiveness
Disregarding or Not Following Proper Policies, Processes, or Procedures		Likelihood Of Sources	Direct	0.0000
Engineers Failure to Properly Install Equipment		Likelihood Of Sources	Direct	0.0000

Apply this control to sources
Apply this control to vulnerabilities
Apply this control to consequences

After identifying all the potential controls, controls are to be evaluated to measure their effectiveness. And measuring, controls to be in effect are to be selected either manually or using optimization.

You can click the Effectiveness (0.0000) which will redirect you to the controls evaluation page to evaluate the effectiveness of the control given the source. From above, the effectiveness is 0 since the controls are just added and not yet evaluated.

You can still add more applications by clicking the "Apply this control..." links.

You can define if control is a Must or Must Not. This setting is used on Controls Optimization.

- Must - the control must be selected or funded
- Must not - the control must not be selected or funded

Controls can also be enabled/disabled by checking/unchecking the checkbox on the "Disabled" column.

You can change the Cost from the Costs column.

You can change the "Cost" for **multiple rows at once** by selecting the controls using the checkboxes at the left of their names, and then changing the setting from one of the selected rows.
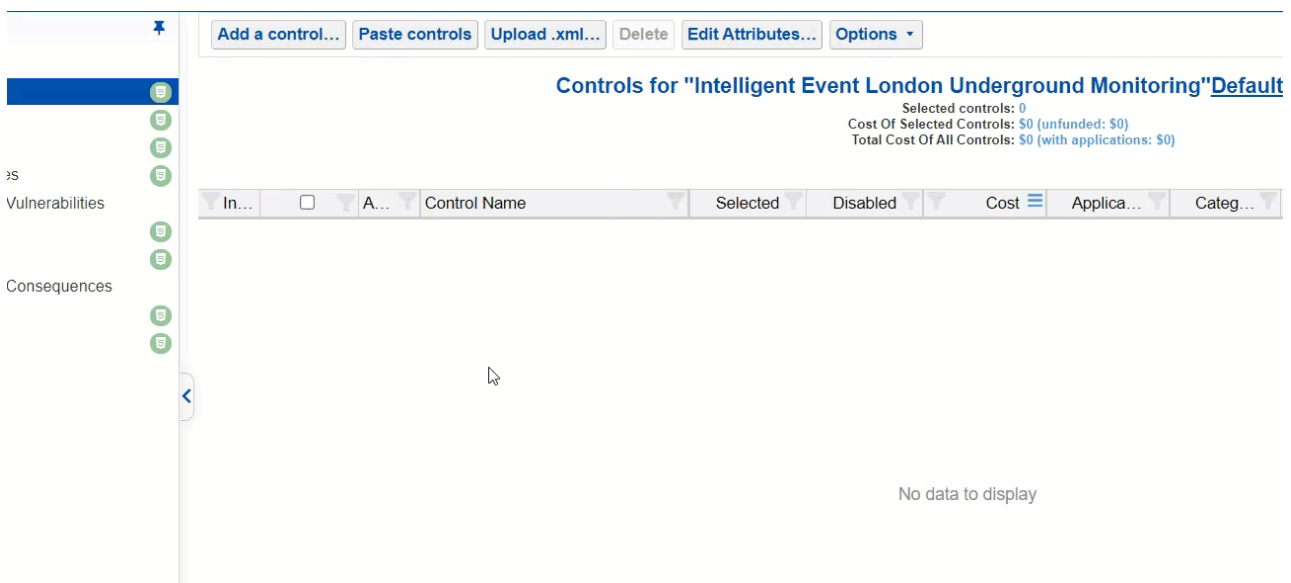
Edit Controls

You can edit the controls by clicking the hamburger icon under the Action column:
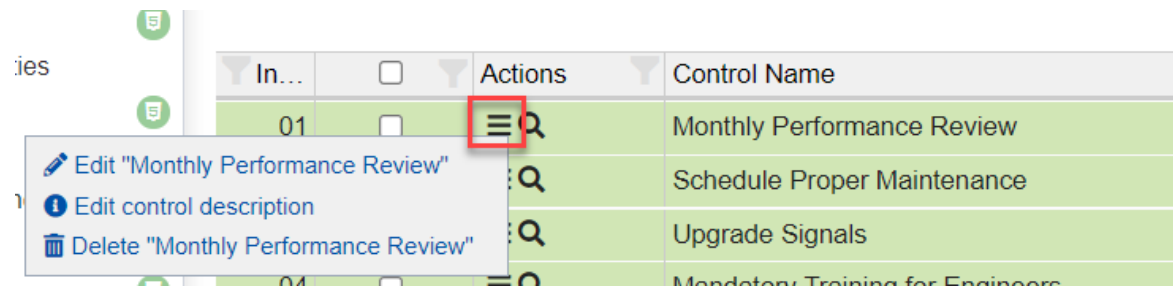
- Edit ControlName - open a dialog where you can edit the name, cost, categories of the control
- Edit control description - open the rich text editor where you can edit the control description. If a control has a description, you will see a magnifying glass icon under the actions column.
- Delete control

Control Categories

Control Categories can be defined when adding or editing a control:

The added categories on this page are used on the Categories report.

You can also use these categories to sort and filter the controls on different pages such as this page, optimization, manually select control pages.

You can also add categories from the Edit Attributes button (not included on the Categories report).

Control Attributes

Click

Here you can add different attribute types:

Added attributes are added as new columns on the Controls grid.

In…	Sel…	A…	Control Name	Selected	Disabled	Cost ≡	Applica…	Cat…	M	M	Milestone	PMs
01	☑	≡🔍	Monthly Performance Review	Yes	☐	10000	2		☐	☐	2018Q3	0.5
02	☑	≡🔍	Schedule Proper Maintenance	Yes	☐	150000	4		☐	☐		0
03	☑	≡🔍	Upgrade Signals	Yes	☐	20000	1		☐	☐		0
04	☑	≡🔍	Mandatory Training for Engineers	Yes	☐	60000	1		☐	☐		0
05	☑	≡🔍	Periodic Proficiency Training	Yes	☐	20000	3		☐	☐		0
06	☑	≡🔍	Identify Staff requiring additional training	Yes	☐	15000	1		☐	☐		0
07	☑	≡🔍	Update Sensor	Yes	☐	50000	1		☐	☐		0
08	☑	≡🔍	Back-up Generator Power	Yes	☐	15000	1		☐	☐		0
09	☑	≡🔍	Periodic Inspection/Maintenance of Power Relay Station	Yes	☐	15000	2		☐	☐		0
10	☐	≡🔍	Predeployment Software Testing		☐	72000	1		☐	☐		0
11	☑	≡🔍	Quality Control of Cables	Yes	☐	2000	1		☐	☐	2019Q2	1

You can also use the attributes to sort and filter the controls on different pages such as this page, optimization, manually select control pages.