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## 5.35 Data Actions

In addition to the Data Action Trigger widget, you can also use the Data Action component and its related script API to run short-running data actions as well as set and read parameter values.

Data actions are a flexible planning tool for making structured changes to model data, including copying data from one model to another. In analytics designer there are two ways of adding data actions to your application:

- Using the Data Action Trigger widget and its related script API
- Using the Data Action component and its related script API

With the Data Action component and its related script API you can do the following:

- Execute the data action
- Set the value of a data action parameter
- Read the value of a data action parameter

### 5.35.1 Prerequisites

Before you can use a Data Action component, there must be data actions created already.

To work with the Data Action component, you need the following permissions and roles:

- To create or edit a Data Action component, you need the permission to edit the analytic application.
- To select a data action in the *Data Action Configuration* panel you need the respective read permission for data actions.
- To execute a data action, you need the respective execute permission for the selected data action.

### 5.35.2 Adding a Data Action Component

You need to add a Data Action component to the analytic application to be able to use the related script API.

1. To add a Data Action component, click in the *Scripting* section of the *Outline* the “+” (plus) icon next to *Data Actions*. The *Data Action Configuration* panel opens with an empty description field where you can type in a description for the data action.
2. In the *Data Action* dropdown select one of the data actions that have been created already. The related data action parameters are displayed below.
3. Enter the values for the parameters either by using the member selection or by choosing the given default value that has been set in the data action designer. Note that to execute a data action successfully, all parameters have to be filled with values, either in the *Data Action Configuration* panel or with the `setParameterValue()` script API method. Note also that the design of the data action itself can't be changed in the *Data Action Configuration* panel, only the parameter values can be set here to adjust the data action.
4. Click *Done* when you've finished setting the parameters.