# Technical Documentation Bulk Editor

With the **Bulk Editor** it is possible to change several records in the grid container at once.

Quick demonstration: select multiple fields in the grid and click the bulk-editor button. Change the Description field text.

Graphical user interface, application

Description automatically generated

As a result, the description is changed to the desired value and shows up a report dialog.

Graphical user interface

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# Start Point and Location

**Location:** You will find the code for the Bulk-Editor in: Framework/Angular-Components/bulk-editor

## General Information

The Bulk-Editor Code is to 95% on Client side. The Bulk-Editor wraps the necessary information from the Grid Controller Service and Data Service Factory.

**Bulk-Editor-Dialog-tpl.html**

Text

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The Dialog for the Bulk-Editor binds the **BulkConfig** Object. This Object contains all configuration for the Bulk-Editor they were configured before, like rules for given operators.

Graphical user interface, text, application, email

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Example here is **changetext.** This is loaded via HTTP Request **in bulk-editor-configuration-service.js**

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As you can see, a **bulkConfig** result data is passed it the list.

If you change some configuration **bulk-editor-controll.js**

**registerConfigChanged** event will be triggered and needed templated will be loaded.

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# Processing

In **bulk-editor-bas-service.js** the whole process starts.

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The configurations mirror the bulk-editor-dialog and footer html

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Below the **setup** function is called in this function. As you can see the functions takes the data service and validation Service, grid columns in the parameter etc. for his needs. This is why the Bulk-Editor wraps the Grid-Controller-Service and data service factory.

Next necessary step is the **change** function:

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The change function is the main function of the Bulk-Editor. Here the Bulk-Editor starts to change the selected Grid Columns via **changeProcessorService.runChanges** function in the **bulk-editor-change-rocessor-service.js** If the Bulk-Editor is done with his work the report dialog will be shown with his change results managed in the **bulk-editor-report-service.js**

# Concurrency Exception

Timeline

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The Bulk-Editor handles Concurrency Exceptions. If the module is supporting the concurrency Exception that must be configured on Server Side with the response **409** and flag **userHasStartedDataReload** it is able for the user to reload the previews versions and the bulk editor will change nothing. This is also shown in the report dialog. See **bulk-editor-report-service-js.**

Then the user has the option to commit his previous settings when the reload is complete and then presses the “Apply Again” button.

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Graphical user interface, text, application

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Reload data to get the current version from the DB

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Description automatically generated

Bulk-Editor reports that nothing has changed. Data in the background was updated. See Description field

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Click **Apply Again** button to update to the desired changes.

Graphical user interface, application

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# Domain Types and Operators

If you want that the Bulk-Editor supports a new domain type operator you have to do the following:

In the location: Basics/Development/Common.Client.Web (Angular)/basics.common/services/matrix

You will find the files: **basics-common-operator-functions.js** and **basics-common-rule-editor-service.js**

First of all, provide a **vanilla data script** like it was done for Time UTC domain

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These are two new operators for the date time domain configured in the **BAS\_OPERATOR** table

The BAS\_DISPLAYDOMAIN\_FK reference to the domain type.

Go to operator-functions.js

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As you can see there a two operator functions for the domain type time utc to set an value and to remove it

Go to basics-common-rule-editor-service.js and make sure the domain types are supported there in those two functions.

Graphical user interface, text

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Graphical user interface, text, application, email

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