

# List queries

How to filter data

THIS ARTICLE IS UNDER DEVELOPMENT

- [Setting up a content source](#)
- [Using a content source](#)
- [Troubleshooting](#)

# Setting up a content source

Many parameters are straight forward

- Related solution
- Max cache age
- Is active

## Unique NAME

This is the calling name of the interface, that must be provided accessing the content service.

Example for calling the view **myview**

```
... /cmsservice?q=myview& ...
```

## Query command

Relevant commands include

- General records
  - list: List of records
  - show: Single record
- HTML formatted views
  - heat: Heatmaps
  - gant: Gant charts
  - xtab: Pivot tables
  - calm: Calendar

## Query parameters

Parameters are provided without URL encoding

```
QUERY_FIELD_1=TITEL&QUERY_OPERATOR_1=8&QUERY_VALUE_1=Hello&QUERY_SHOWFIELD=TITEL StatusID DE
```

Procedure for easy parameter setup

1. Build views in frontend.
2. Activate the link and copy the URL

3. Remove unneeded parameters
  - command
  - SagID
  - QUERY\_NEW

## Possible parameters

QUERY_FIELD_n	Part of the search/filter. The field to filter by.
QUERY_OPERATOR_n	Part of the search/filter. The way to filter. Full list <a href="#">Dashboard widget configuration</a>
QUERY_VALUE_n	Part of the search/filter. The value to filter by.
QUERY_SHOWFIELD	The fields to show in the list, separated by space.
QUERY_PageSize	Number of records to show pr page.
QUERY_PageOffset	The page number to show.
QUERY_SortOrder	The field to sort ascending by. Use either this or SortOrderDesc.
QUERY_SortOrderDesc	The field to sort descending by. Use either this or SortOrder.
QUERY_Grouping	The field to group records by.
QUERY_GroupingDesc	

## Dynamic parameter

This specifies a parameter that will be set by the value provided in the **v** parameter.

Example: Using this interface

```
Unique NAME: mylist
Query command: list
Dynamic parameter: QUERY_PageOffset
```

Making a call to

```
.../cmsinterface?q=mylist&v=2
```

Will fetch a list of data and display page 2, because **2** is injected into **QUERY\_PageOffset**.

Parameters and values are injected directly into the http request.

**Note: Using the "show" command the variable will ALWAYS get mapped to "DataID"**



# Using a content source

Calling the **cmsinterface** servlet will provide you with an overview on how to use it.

Example:

```
https://www.acme.com/TempusServa/cmsinterface
```

The interface requires just the name of the source, but additional parameters can be provided.

Parameters

- **q**: Name of the interface (required)
  - This name must match "Unique NAME"
- **f**: Format of the result (optional)
  - Valid values: html json xml
- **v**: Parameter for dynamic values (optional)
  - The value will be substituted to the parameter in "Dynamic parameter"

Example:

```
https://www.acme.com/TempusServa/cmsinterface?q=mysource&f=json
```

# Troubleshooting

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## Configuration caching

For performance reasons information about the content sources is kept cached.

Adding or changing sources will propagate automatically : You will need to clear the system cache to pick the changes.

## Parameter encoding

Note that URL's copied from a browser address bar are often encoded in HTML format.

The content will not decode values and request strings, so all encoded strings will fail.